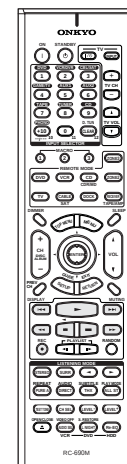


# AV CONTROLLER

## MODEL PR-SC885



### PR-SC885 Black models

## SAFETY-RELATED COMPONENT WARNING!!

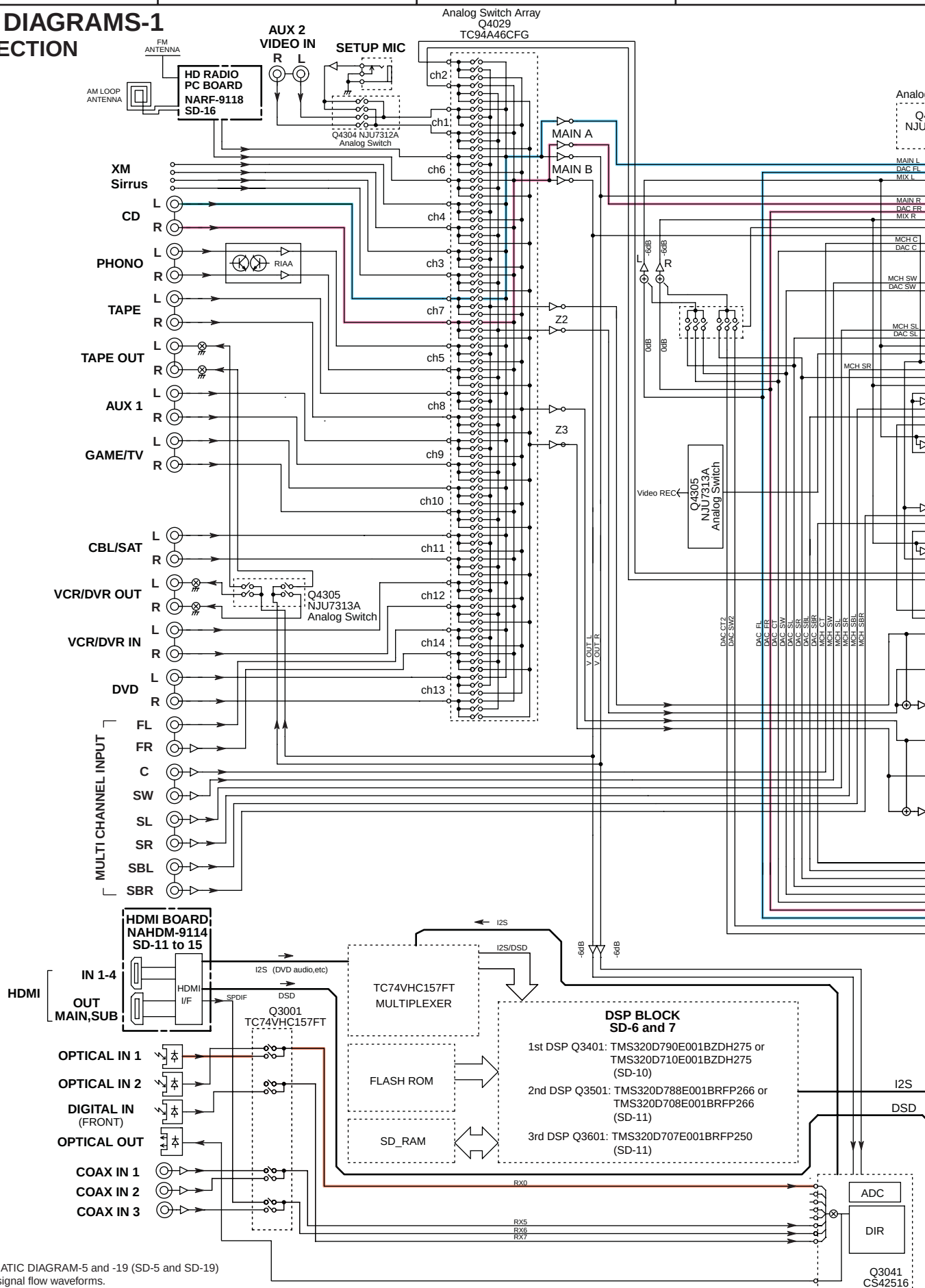
**COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.**

**MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.**

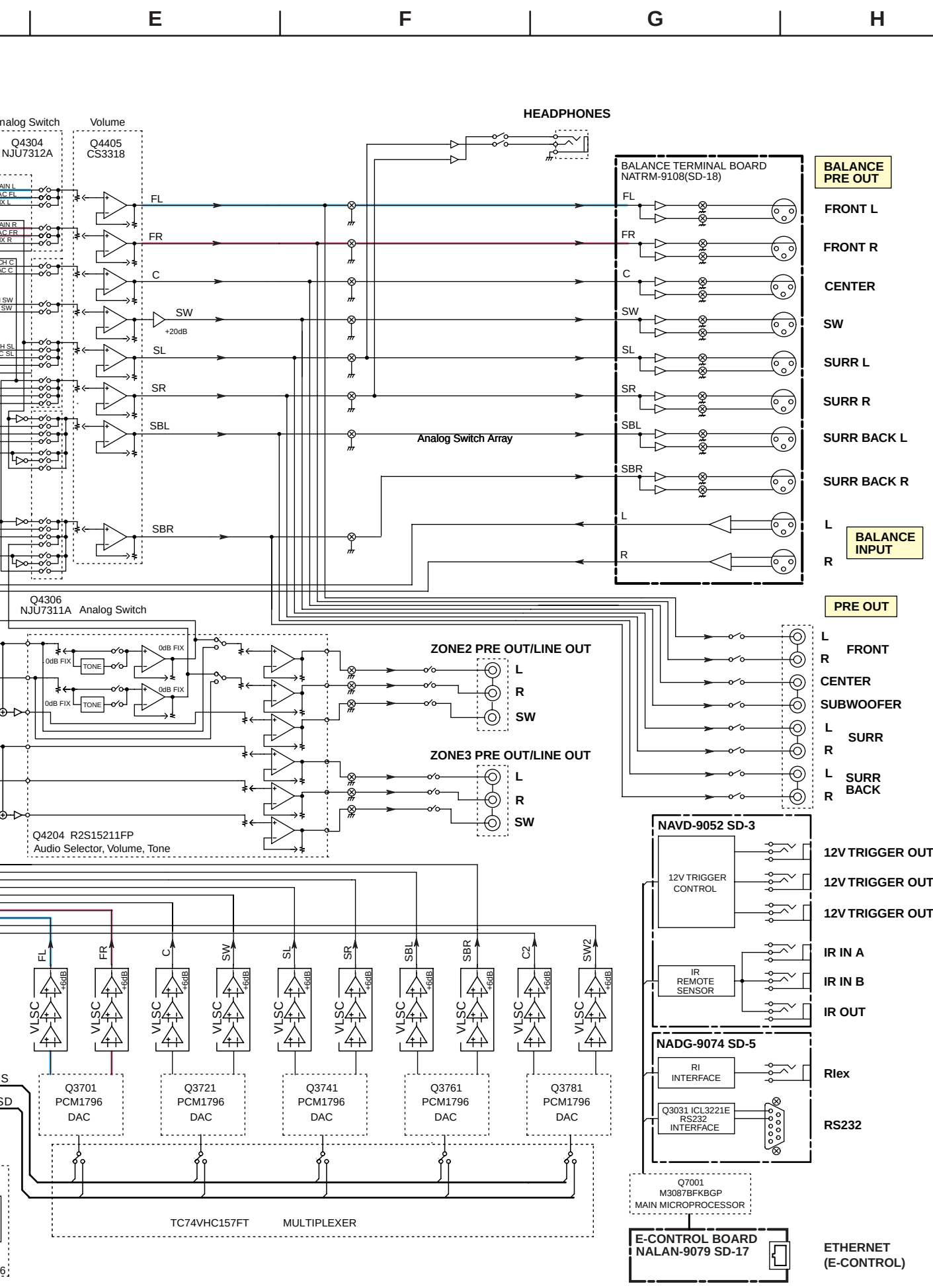


# BLOCK DIAGRAMS-1

## AUDIO SECTION



<Note>  
Refer to SCHEMATIC DIAGRAM-5 and -19 (SD-5 and SD-19)  
for digital audio signal flow waveforms.





BLOCK DIAGRAMS-1  
AUDIO SECTION

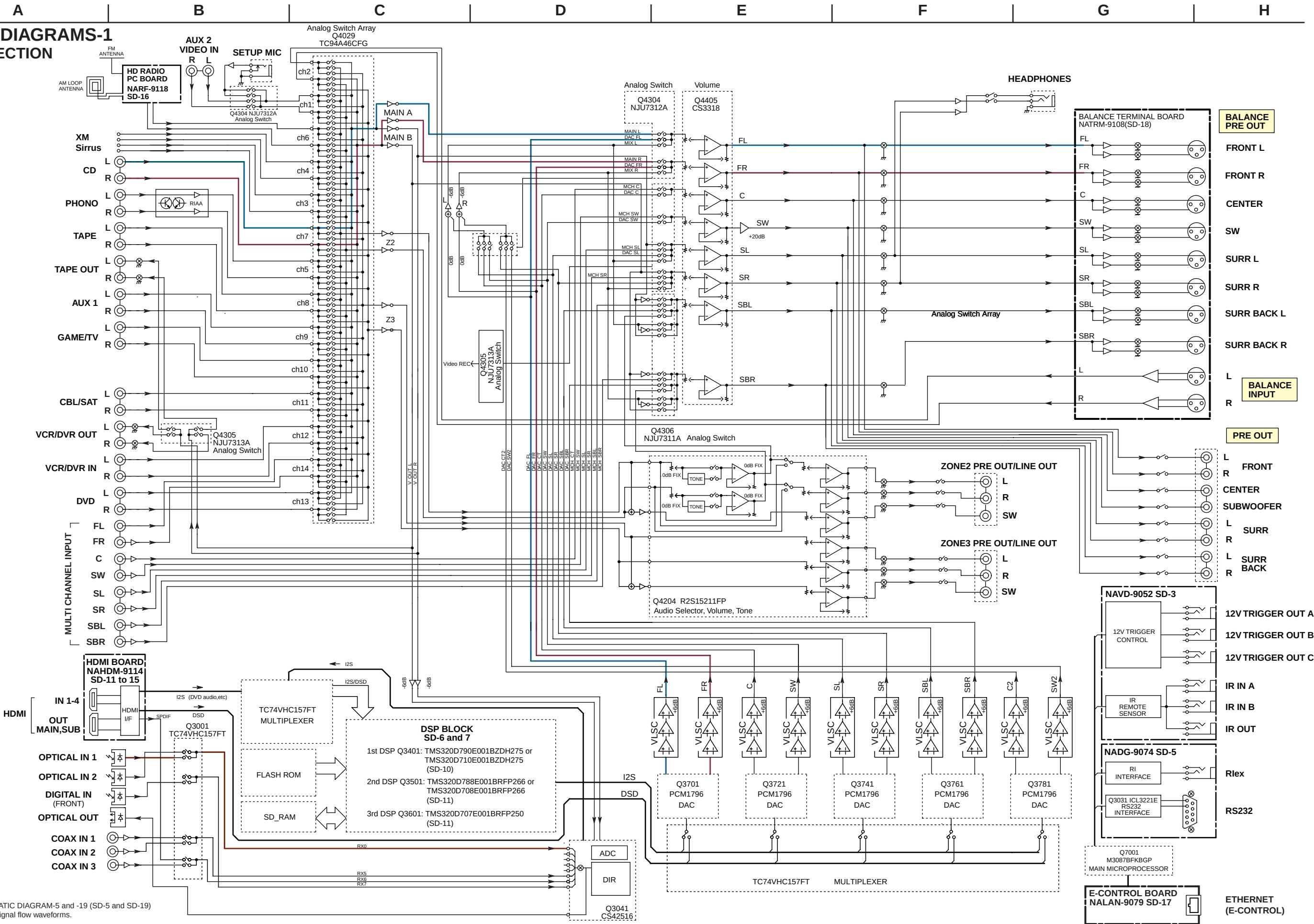
1

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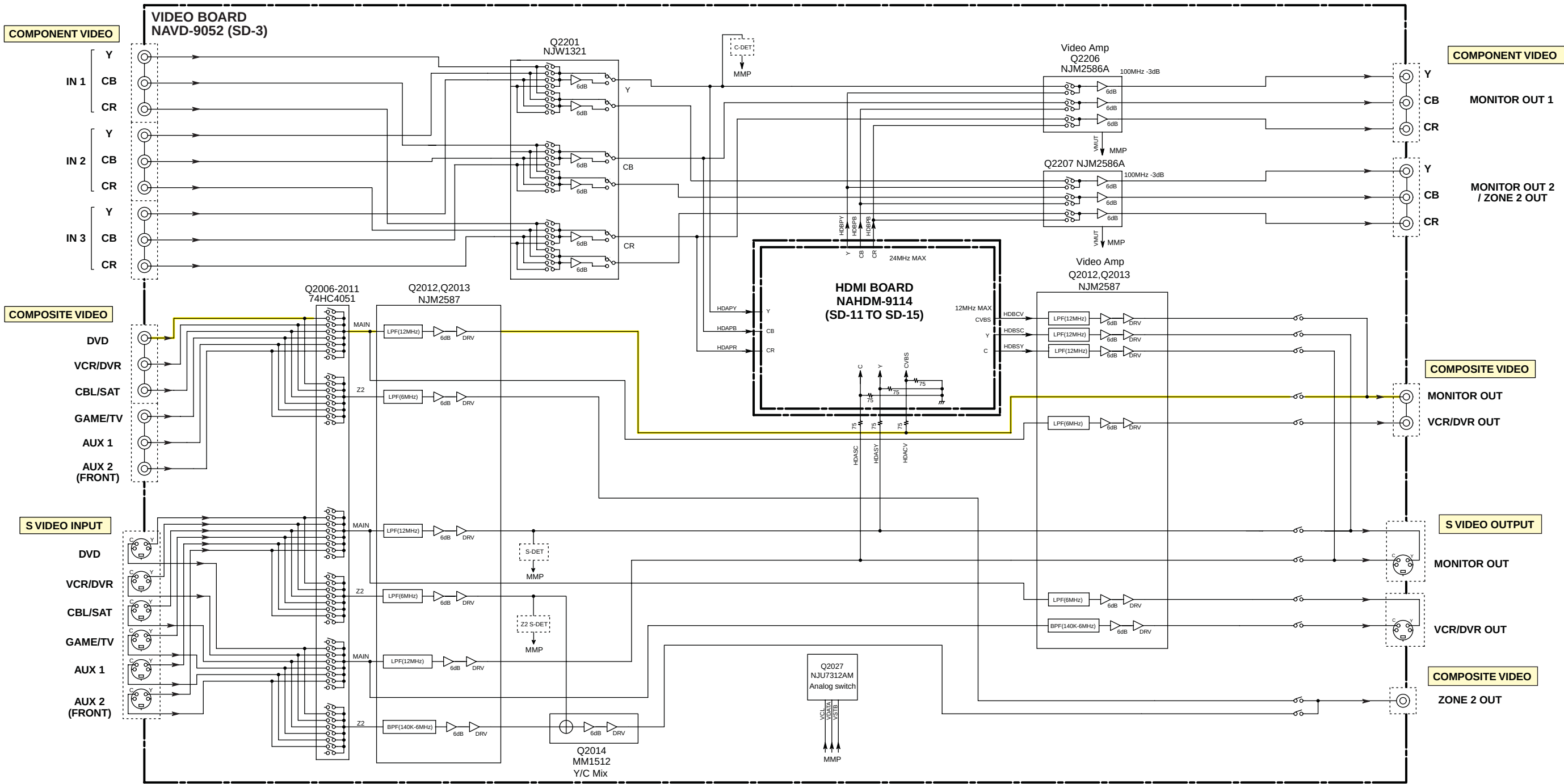
4

5



<Note>  
Refer to SCHEMATIC DIAGRAM-5 and -19 (SD-5 and SD-19)  
for digital audio signal flow waveforms.

BLOCK DIAGRAMS-2  
VIDEO SECTION

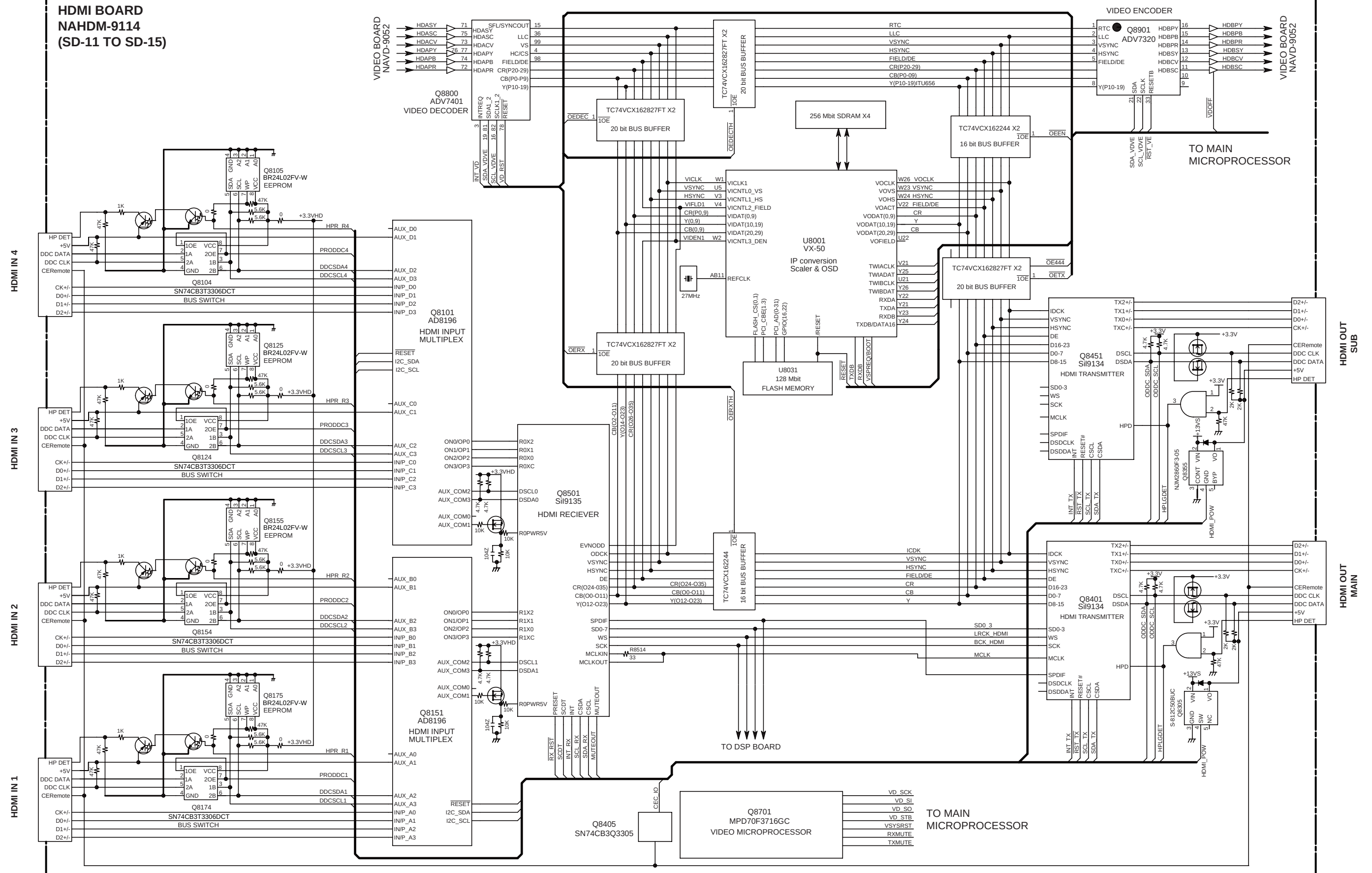


NOTE  
MMP is short for MAIN MICROPROCESSOR.

<Note>  
Refer to SCHEMATIC DIAGRAM-3, 13, 14 and 19 (SD-3, SD-13, SD-14 and SD-19)  
for video and HDMI signal waveforms.

## BLOCK DIAGRAMS-3

### HDMI SECTION



SCHEMATIC DIAGRAMS-1 (SD-1)  
AUDIO SECTION-1

<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

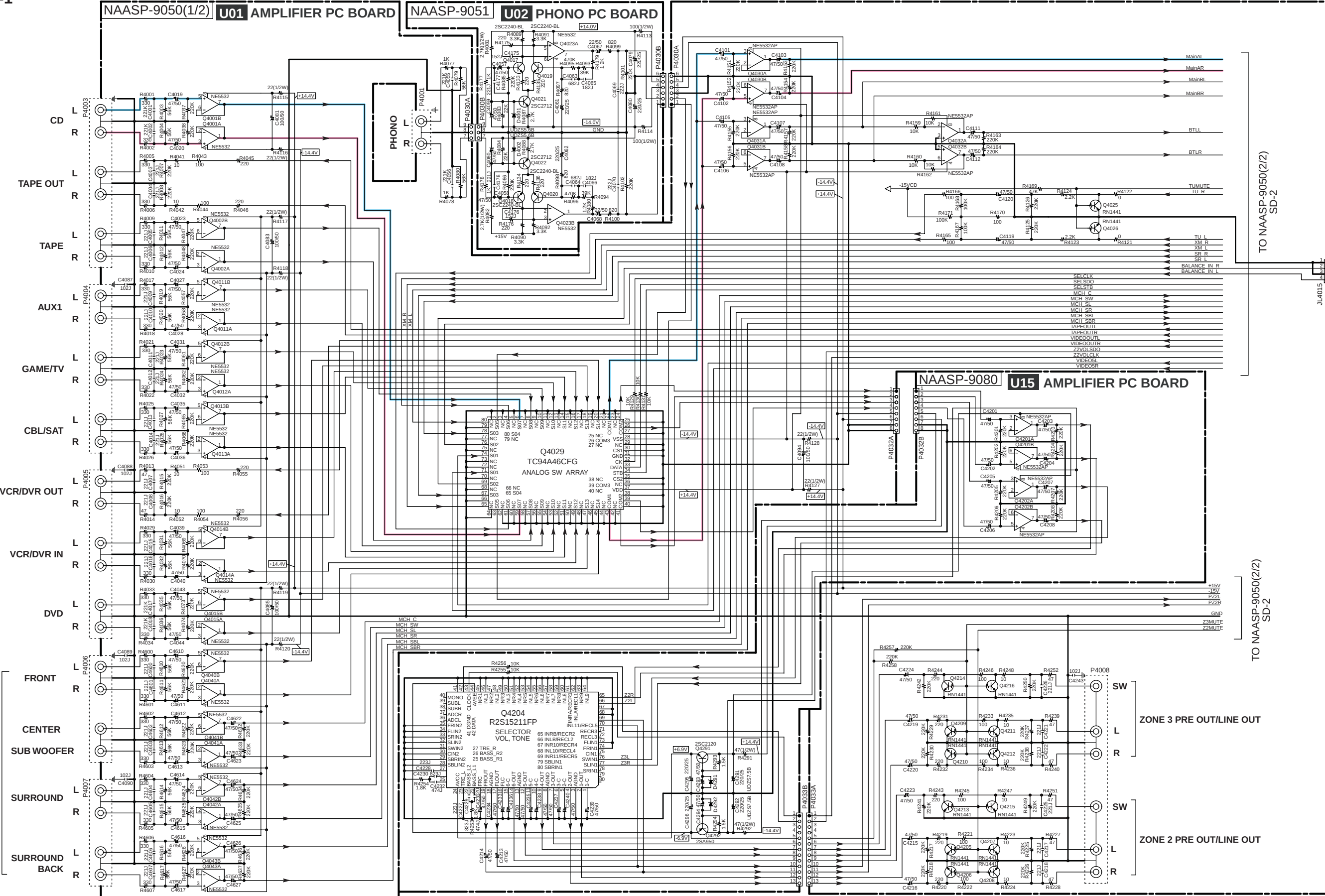
1

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TO NAASP-9050(2/2)  
SD-2

TO NATRM-9108  
SD-18:D2

ZONE 3 PRE OUT/LINE OUT

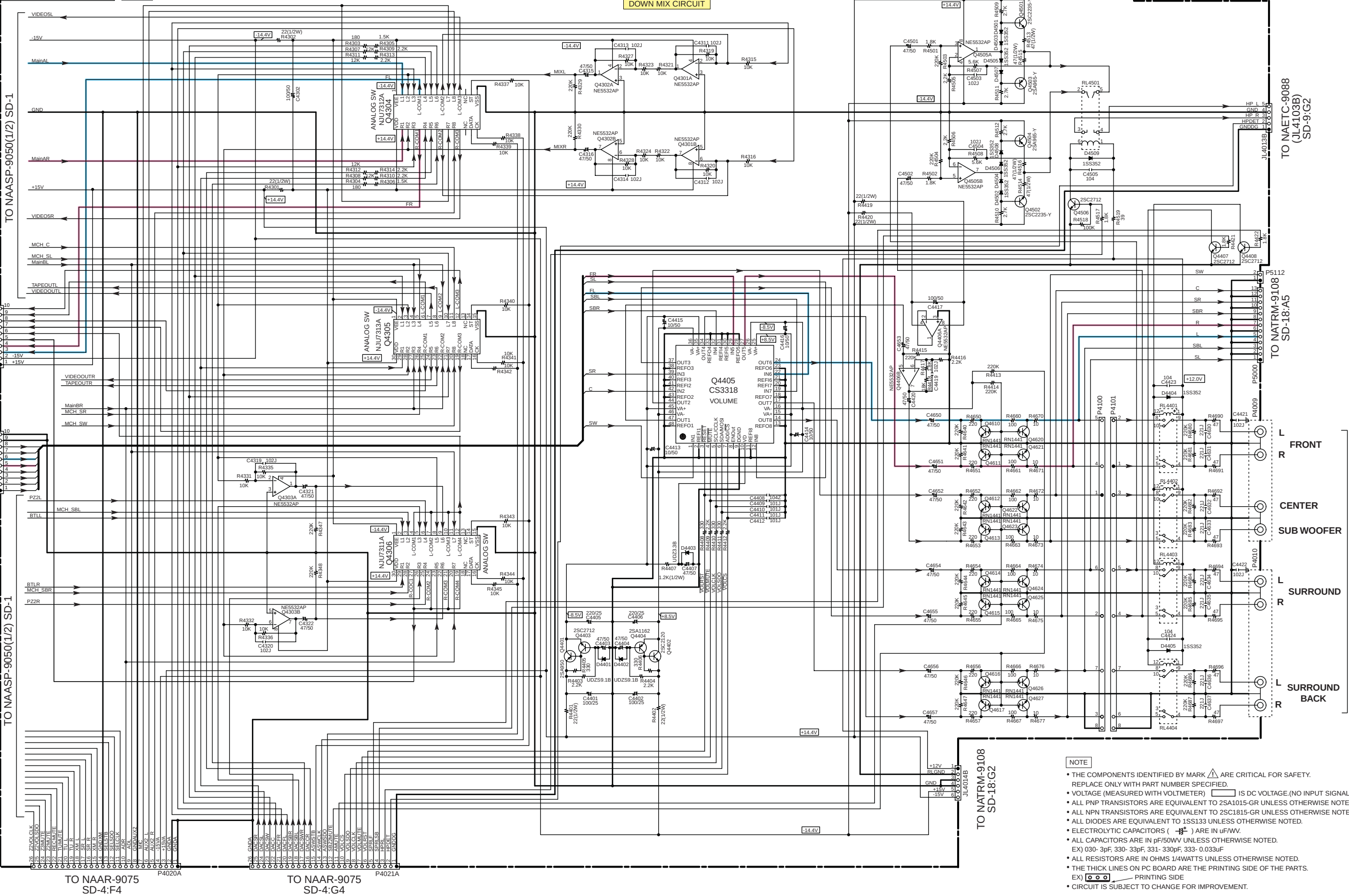
ZONE 2 PRE OUT/LINE OUT



SCHEMATIC DIAGRAMS-2 (SD-2)  
AUDIO SECTION-2

<Note>  
SD-X:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

NAASP-9050(2/2) U01 AMPLIFIER PC BOARD



NOTE

- THE COMPONENTS IDENTIFIED BY MARK  $\Delta$  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\Delta$  ) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
- EX) 030-3pF, 330-330pF, 333-330pF, 333-0.033uF.
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAMS-3 (SD-3)  
VIDEO SECTION

1

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COMPONENT VIDEO

NAVD-9052  
U03 VIDEO PC BOARD

IN 3  
CB/PB  
Y

IN 2  
CB/PB  
Y

IN 1  
CB/PB  
Y

OUT 1  
CB/PB  
Y

OUT 2/ZONE 2  
CB/PB  
Y

<Note>  
Refer to SCHEMATIC DIAGRAM-19 (SD-19)  
for video signal waveforms.

S VIDEO

AUX1

GAME/TV

CBL/SAT

OUT

VCR/DVR

DVD

MONITOR OUT

COMPOSITE VIDEO

ZONE 2 OUT

TO NAAR-9075  
SD-4:G3

<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

TO NAPS-9057  
SD-10:D2

12V TRIGGER C

12V TRIGGER B

IR IN B

12V TRIGGER A

IR IN A

IR OUT

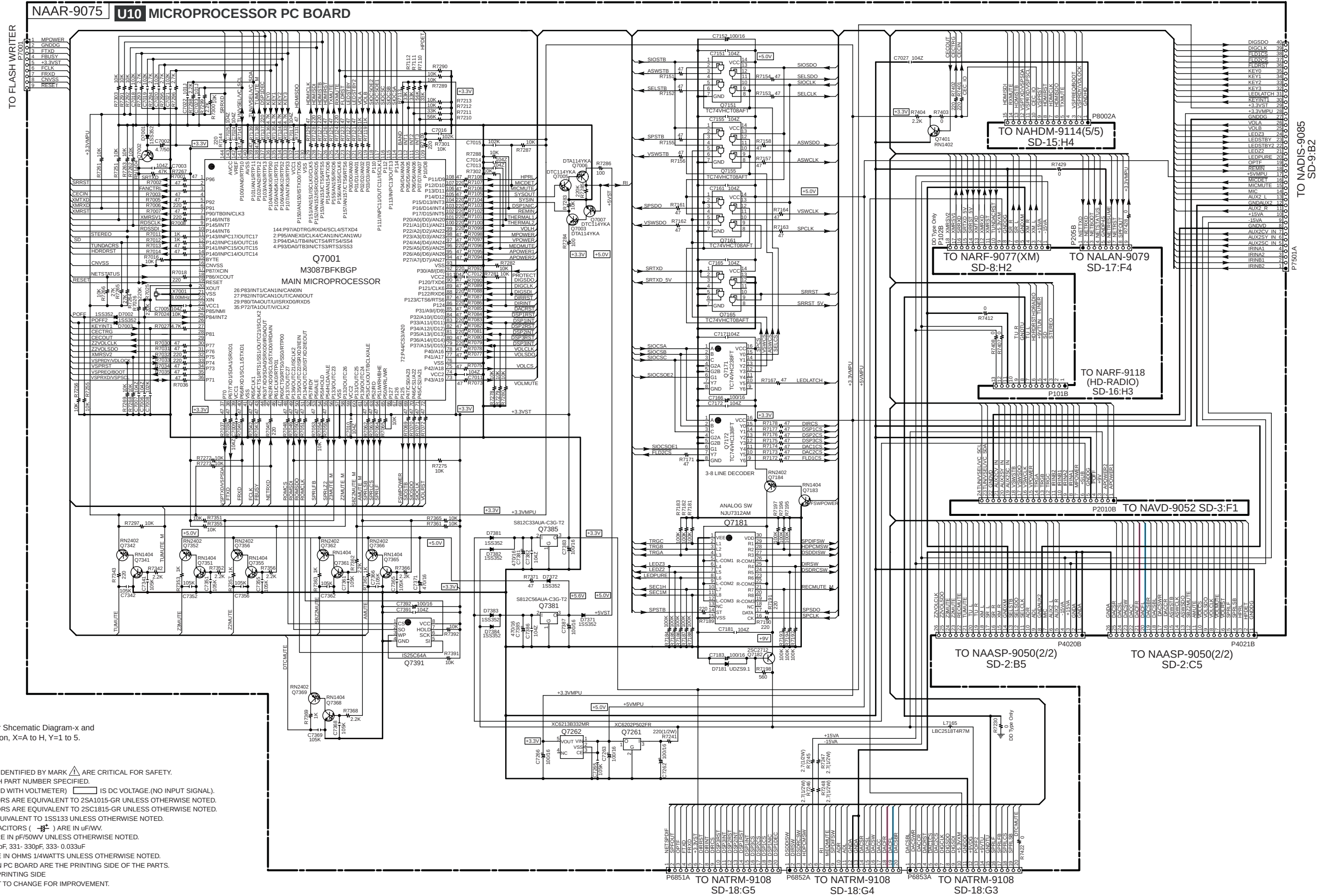
TO NATRM-9108  
SD-18:G2

TO HDM-9114(5/5)  
SD-15:H1

TO POWER TRANS  
SD-10:D5



## SCHEMATIC DIAGRAMS-4 (SD-4)



<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  IS DC VOLTAGE, (NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  ) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50VW UNLESS OTHERWISE NOTED.
- EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX)  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.





TO NADG-9074  
SD-5:C2

TO NADSP-9072(2/2)  
SD-7:A4







SCHEMATIC DIAGRAMS-8 (SD-8)  
XM/SIRIUS SECTION

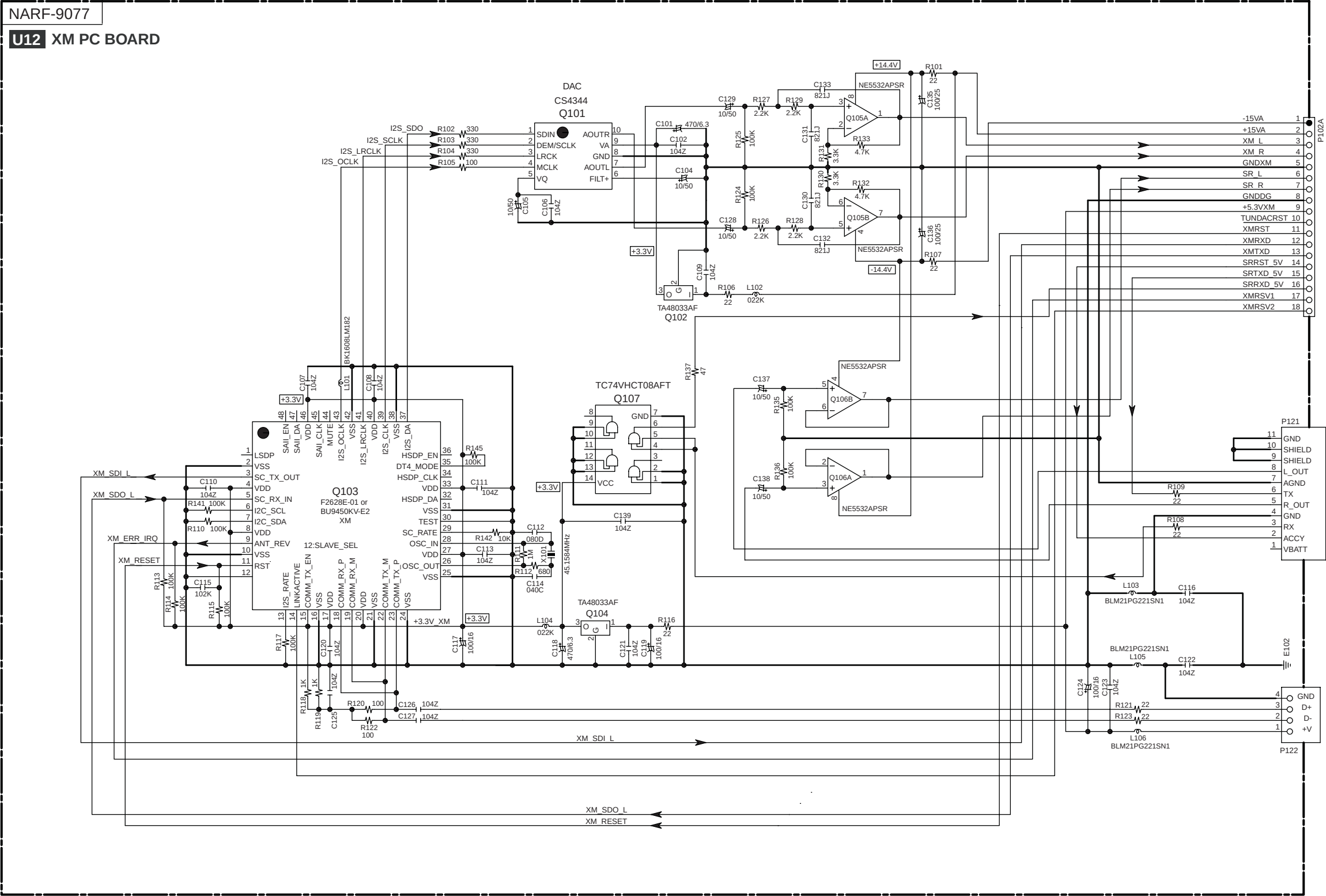
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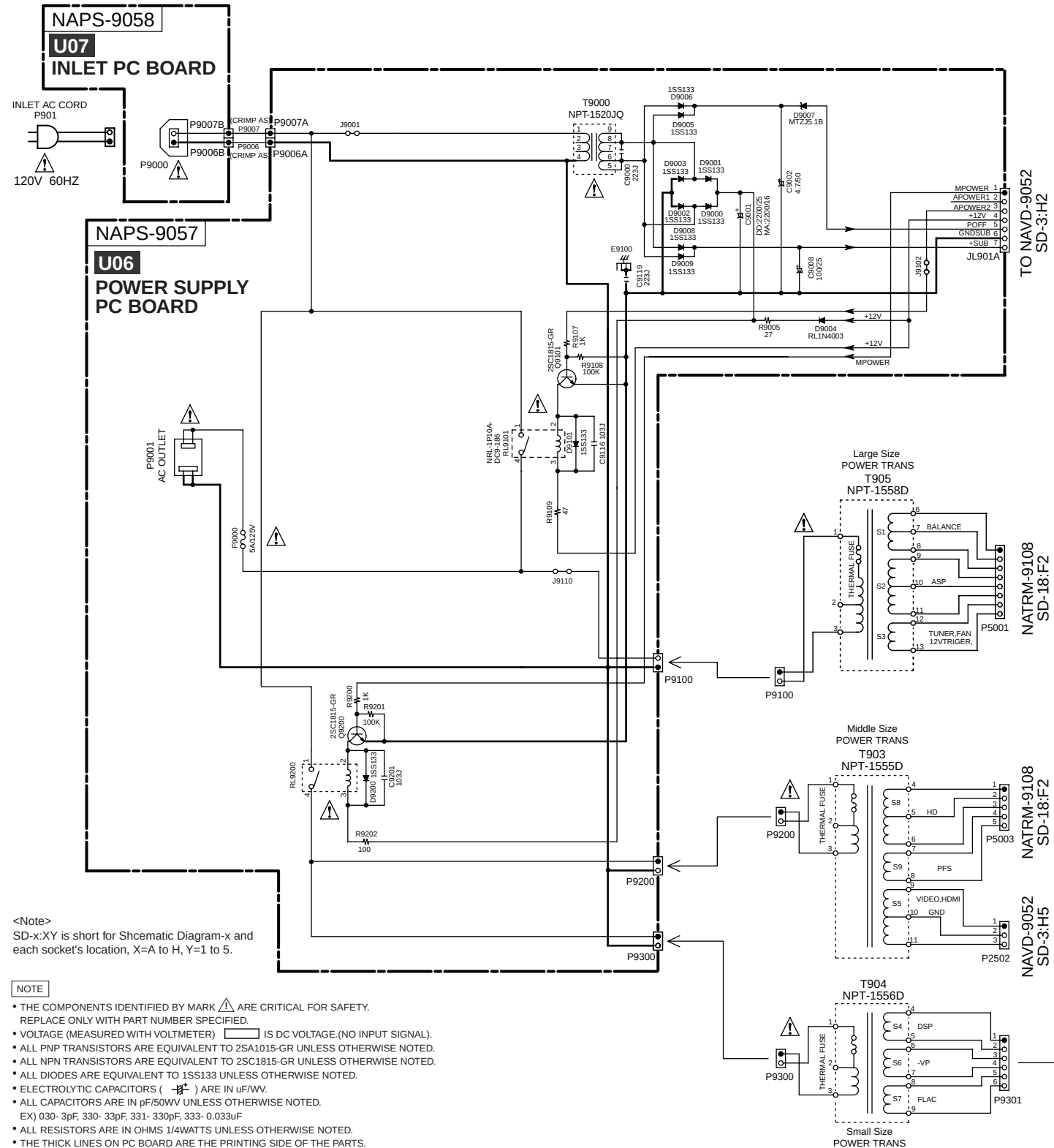
5



<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.



**SCHEMATIC DIAGRAMS-10 (SD-10)**  
**POWER SUPPLY SECTION**



### CAUTION

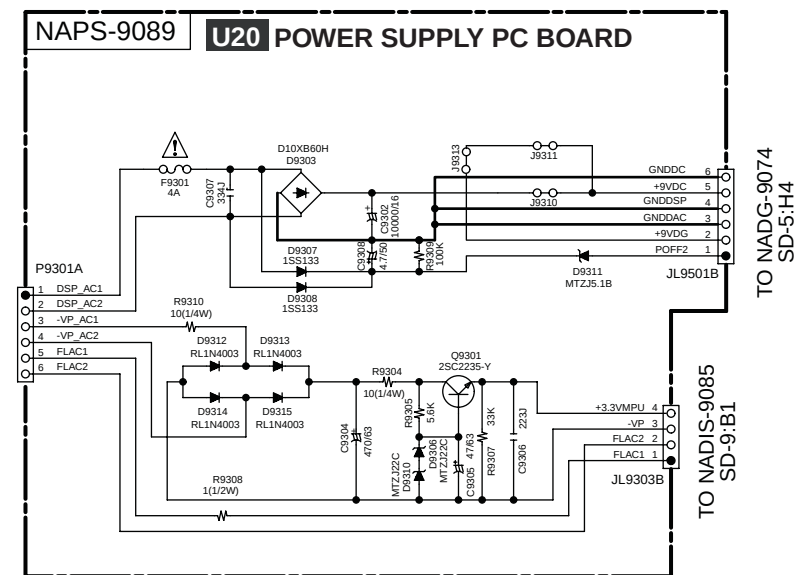
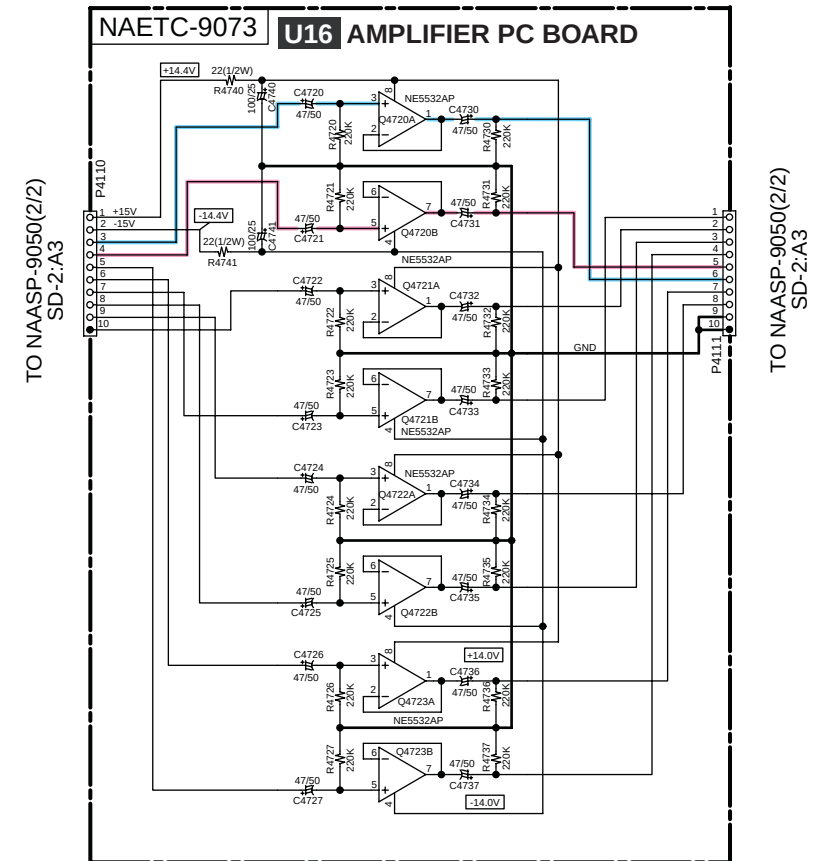
FOR CONTINUED PROTECTION  
AGAINST FIRE HAZARD, REPLACE  
ONLY WITH FUSE OF SAME TYPE  
AND RATING INDICATED.

## ATTENTION

AFIN D'ASSURER UNE PROTECTION  
PERMANENTE CONTRE LES RISQUES  
D'INCENDIE, REMPLACER UNIQUEMENT  
PAR UN FUSIBLE DE MEME TYPE  
ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE FUSE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MAKING ADJACENT TO THE SYMBOL.

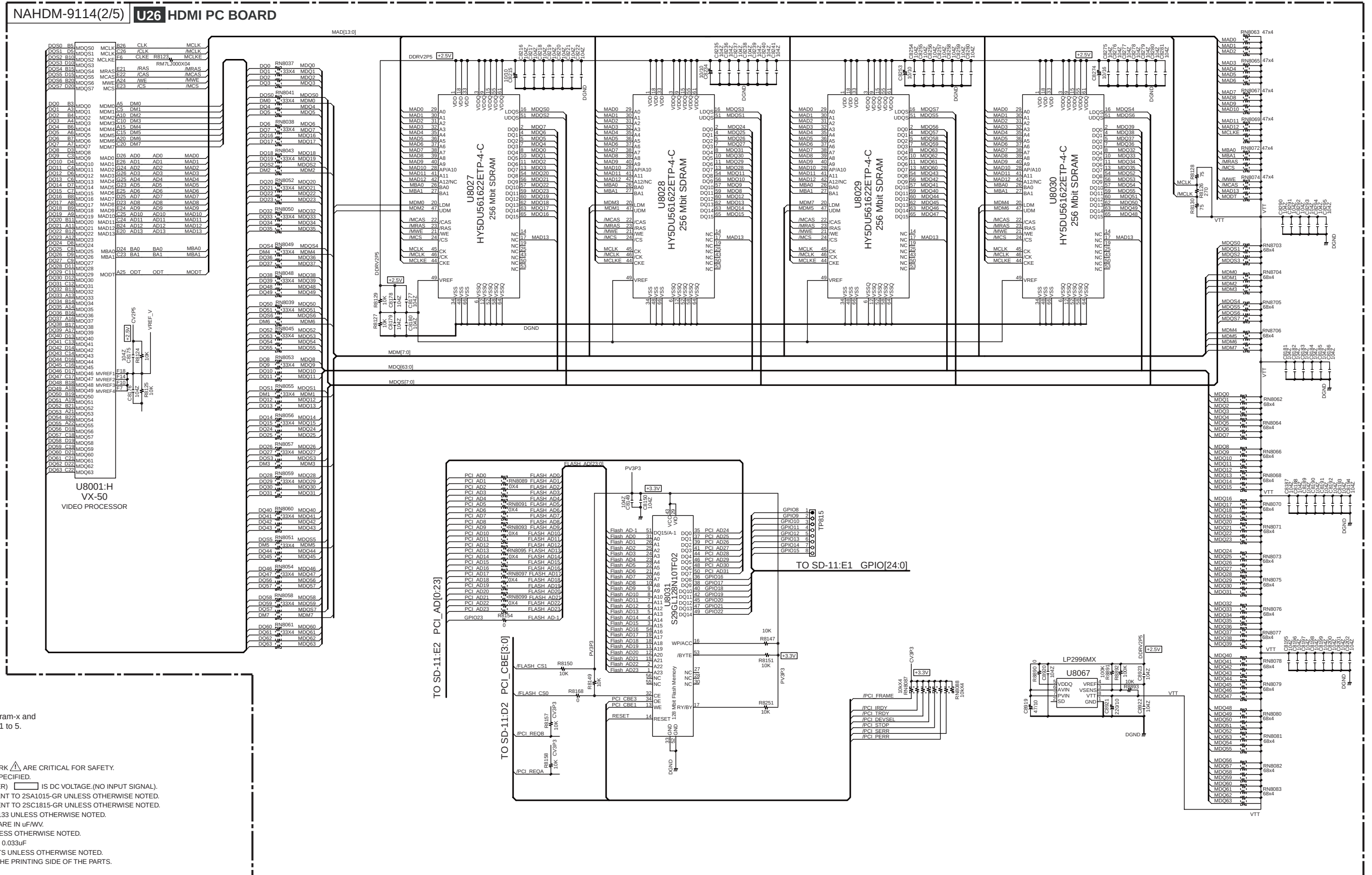
CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST A LENT, E POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.







## SCHEMATIC DIAGRAMS-12 (SD-12)



<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  ) ARE IN  $\mu F/V.V.$
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATT'S UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE BOARD.  
EX)  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.





NAHDM-9114(4/5)

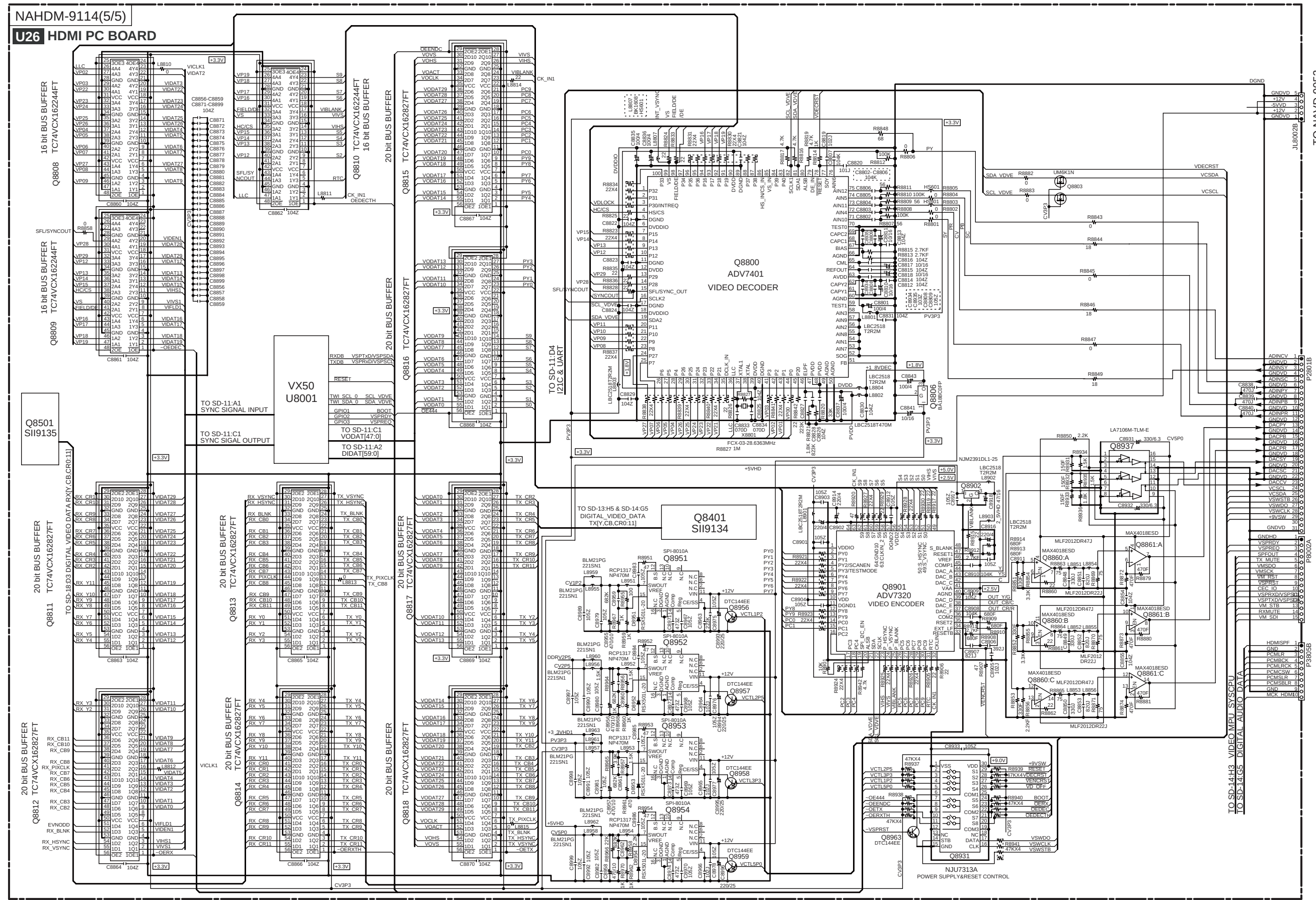
**U26** HDMI PC BOARD





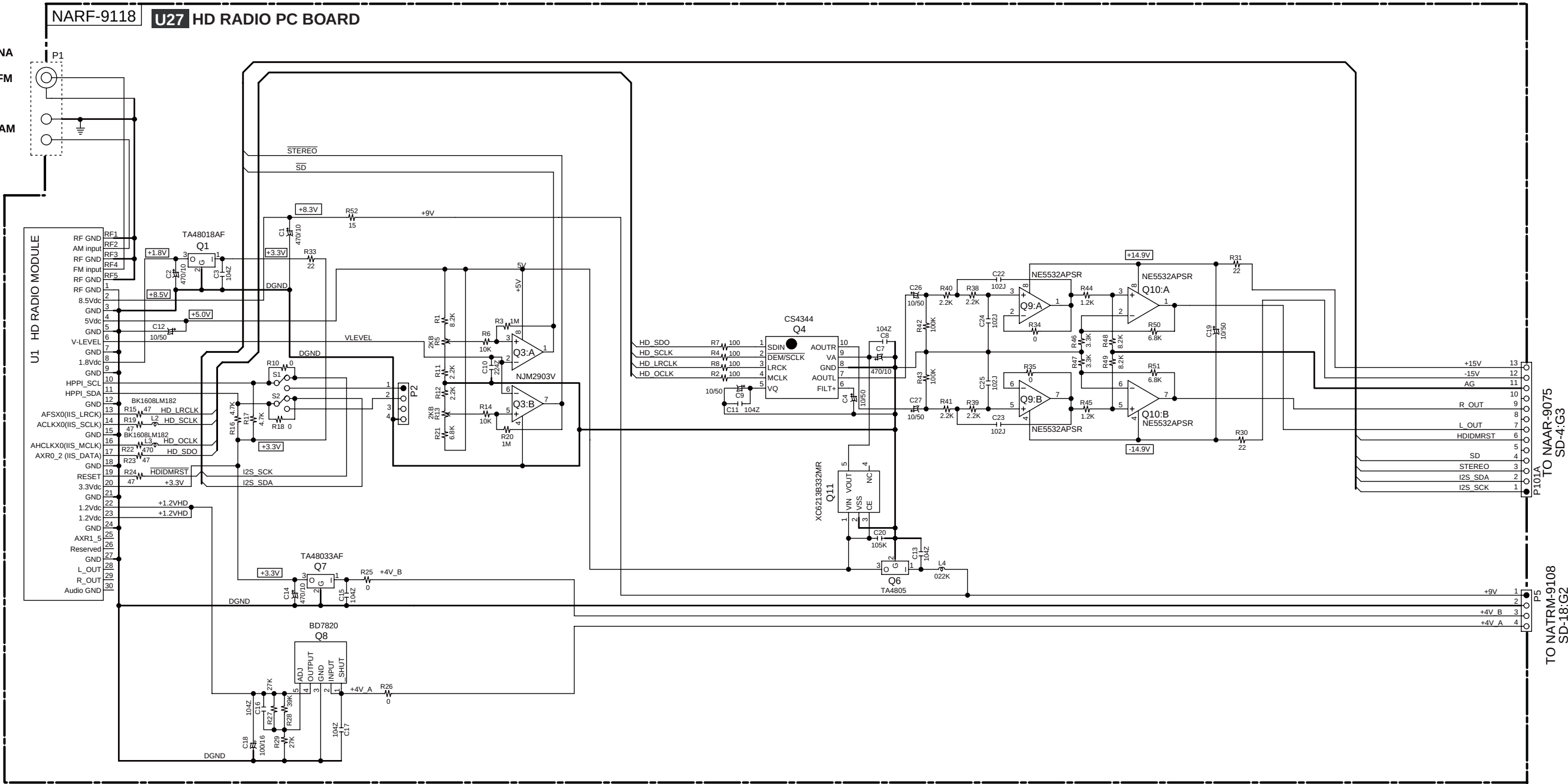
SCHEMATIC DIAGRAMS-15 (SD-15)  
HDMI SECTION-5

<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.



TO NAVD-9052 SD-3:H4  
TO NAVD-9052 SD-3:F2  
TO NAVD-9075 SD-4:G1  
TO NADSP-9072 SD-6:B1  
TO SD-14:H3 VIDEO MPU SYSCPU  
TO SD-14:G5 DIGITAL AUDIO DATA

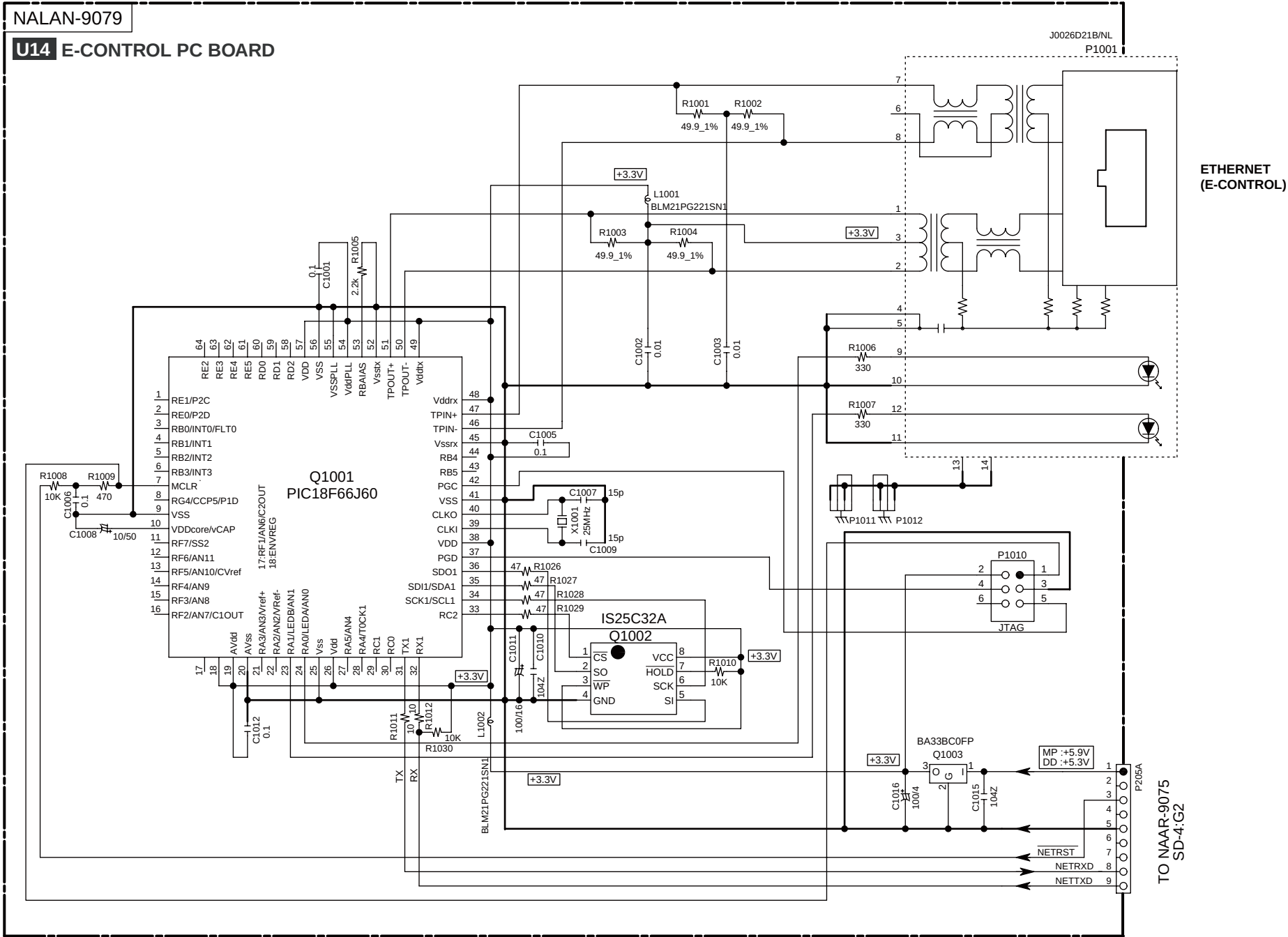
SCHEMATIC DIAGRAMS-16(SD-16)  
HD RADIO SECTION



<Note>  
SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

- NOTE
- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
  - VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE (NO INPUT SIGNAL).
  - ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
  - ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
  - ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
  - ELECTROLYTIC CAPACITORS ( ) ARE IN uF/WV.
  - ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
  - ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
  - THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX) PRINTING SIDE
  - CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAMS-17 (SD-17)  
E-CONTROL SECTION



- NOTE
- THE COMPONENTS IDENTIFIED BY MARK  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
  - VOLTAGE (MEASURED WITH VOLTMETER)  IS DC VOLTAGE.(NO INPUT SIGNAL).
  - ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
  - ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
  - ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
  - ELECTROLYTIC CAPACITORS (  ) ARE IN uF/WV.
  - ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
  - ALL RESISTORS ARE IN OHMS 1/4WATT'S UNLESS OTHERWISE NOTED.
  - THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  PRINTING SIDE
  - CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>  
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.





SCHEMATIC DIAGRAM-19(SD-19)  
WAVEFORM SECTION

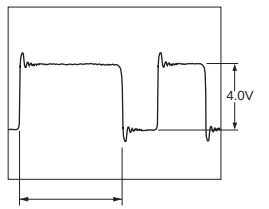
Digital Audio Waveform Part

NOTE:  
1. (WF01) is short for (Waveform01)  
2. Refer to SD-5(SCHEMATIC DIAGRAM-5)  
for the location of each waveform on circuit.  
3. SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.

LR CLOCK (SAI\_LRCK, CX\_LRCK)  
Fs=48kHz : DVD, Clock width=20.8us  
Fs=44.1kHz : CD, Clock width=22.7us

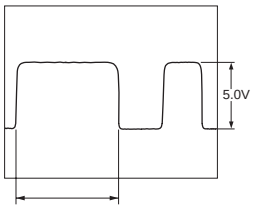
BIT CLOCK (SAI\_SLCK, CX\_SLCK)  
64Fs=3072kHz : DVD, Clock width=325ns  
64Fs=2822.4kHz : CD, Clock width=354ns

(WF01) OPT1 (SD-5:B2)



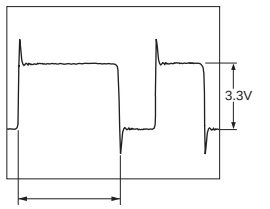
Duty varies according to audio data

(WF02) COAX1 (SD-5:C2)



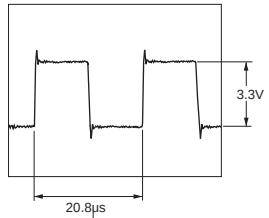
Duty always varies according to audio data

(WF03) SAI\_SDOUT (SD-5:B4)

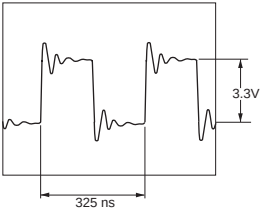


Duty varies according to audio data

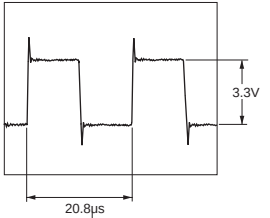
(WF04) SAI\_LRCK (SD-5:B4)



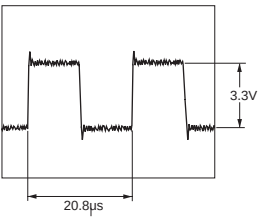
(WF05) SAI\_SLCK (SD-5:C4)



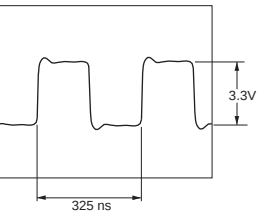
(WF06) CX\_SDIN1 (SD-5:D4)



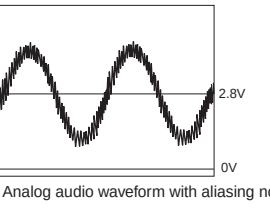
(WF07) CX\_LRCK (SD-5:D4)



(WF08) CX\_SCLK (SD-5:D4)

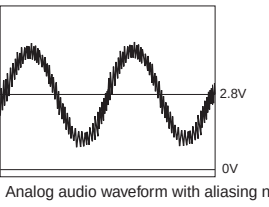


(WF09) DAC\_OUT- (SD-5:E4)



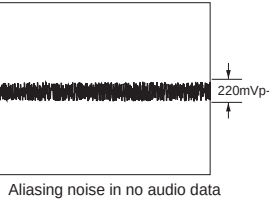
Analog audio waveform with aliasing noise

(WF10) AUDIO\_FL (SD-5:G3)



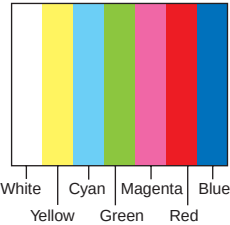
Analog audio waveform with aliasing noise

(WF10) AUDIO\_FL (SD-5:G3)

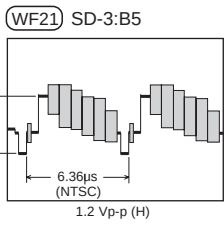


Aliasing noise in no audio data

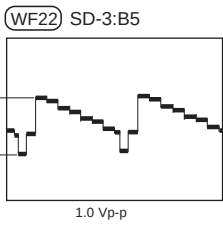
Video source color and pattern



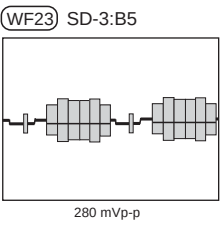
Composite waveform



S-Video Y waveform

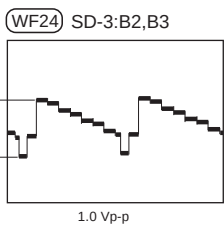


S-Video C waveform

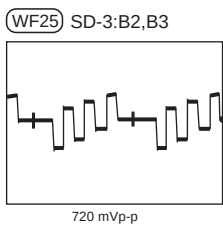


NOTE:  
1. (WF21) is short for (Waveform21)  
2. Refer to SD-3(SCHEMATIC DIAGRAM-3)  
for the location of each waveform on circuit.  
3. SD-x:XY is short for Shcematic Diagram-x and  
each socket's location, X=A to H, Y=1 to 5.  
4. In the case that video outputs are not  
connected to video devices, video signal  
output levels are doubled.

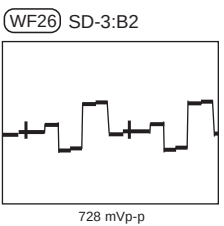
Component Y waveform



Component PB waveform



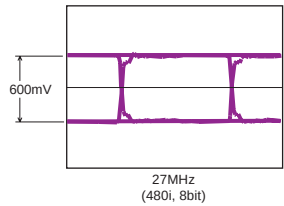
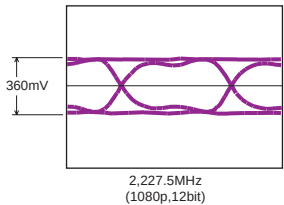
Component PR waveform



HDMI Waveform Part

HDMI D0,D1,D2 waveform

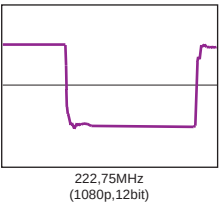
(WF41) SD-13:B5,H4 / SD-14:4G



D0,D1,D2 Eye-pattern waveform, frequency and  
level vary according to video resolution, aspect  
and profile. Waveforms above are examples.

HDMI CK waveform

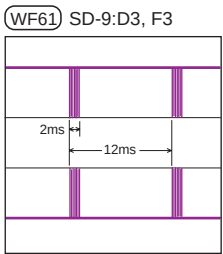
(WF42) SD-13:B5,H4 / SD-14:4G



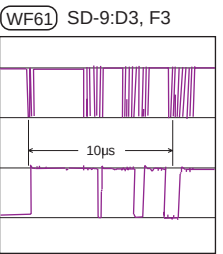
CK waveform, frequency and level differ according to  
video resolution, aspect and profile.  
D0,D1,D2 are just CK x10.

FL Driver IC Control Waveform Part

SCK/SDATA waveform

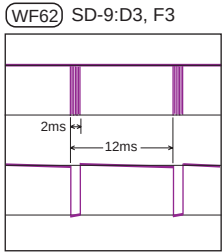


SCK/SDATA waveform

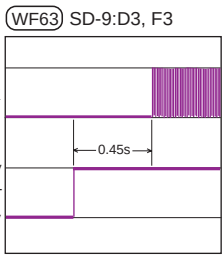


SDATA waveform varies according to  
the data content

SCK/CS waveform



SCK/RESET waveform



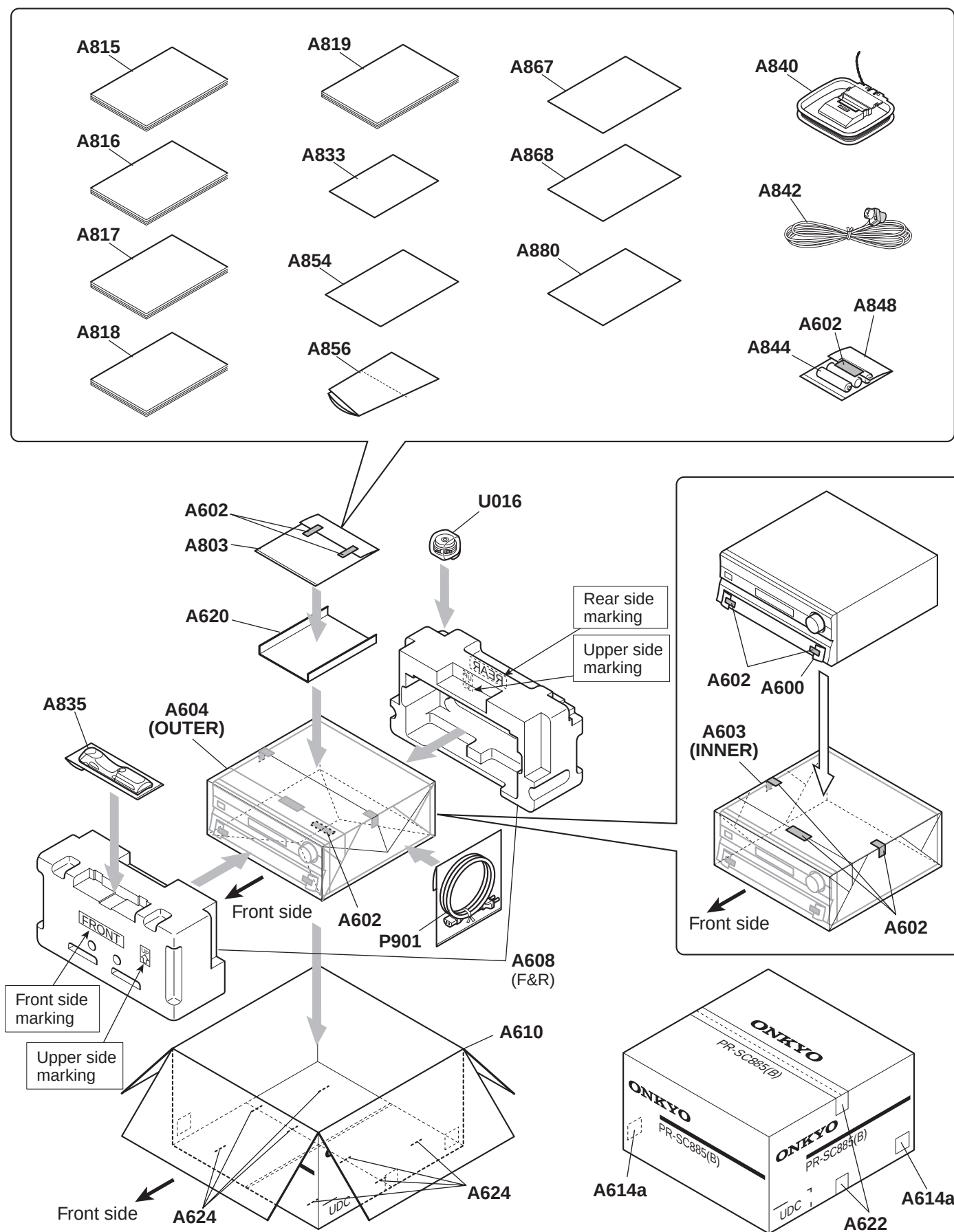
When power on

SCK/RESET waveform



When power off

## PACKING PROCEDURE





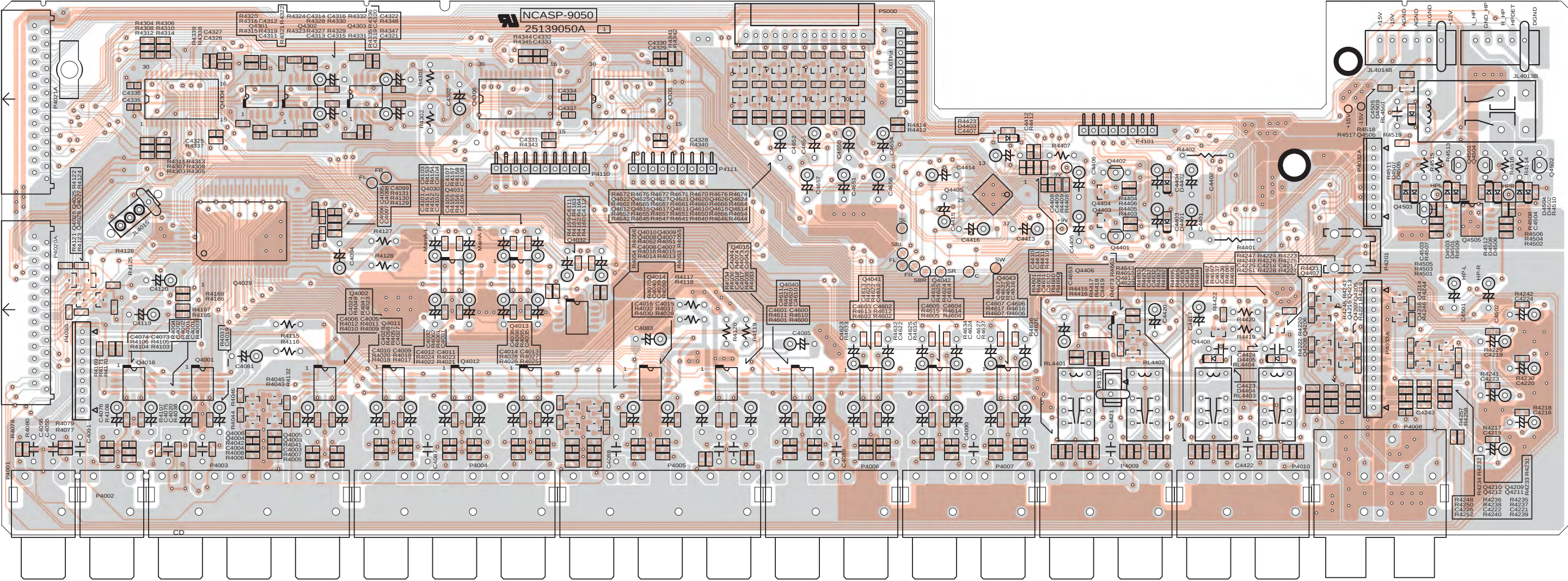
**U01** AMPLIFIER PC BOARD (NAASP-9050)  
Side-A

2

3

4

5





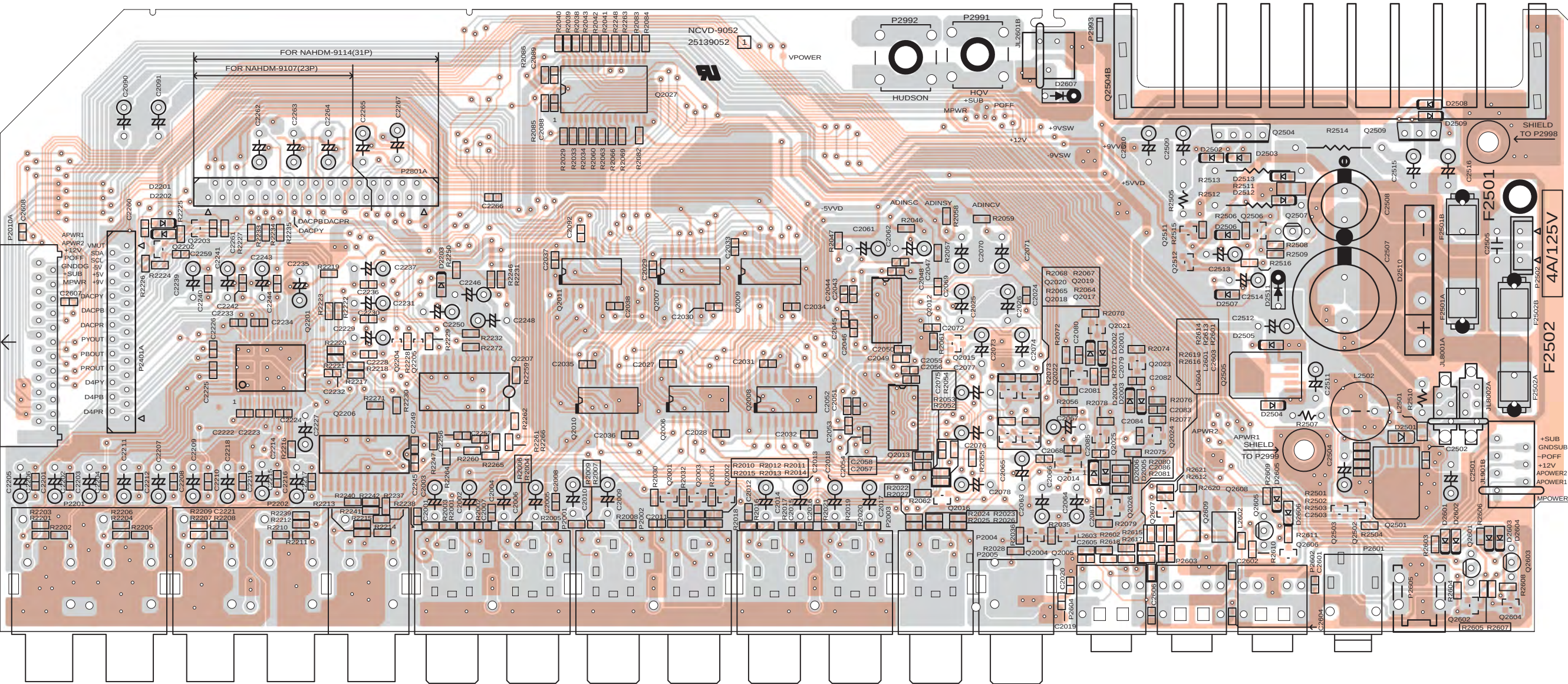
## Side-A

2

3

4

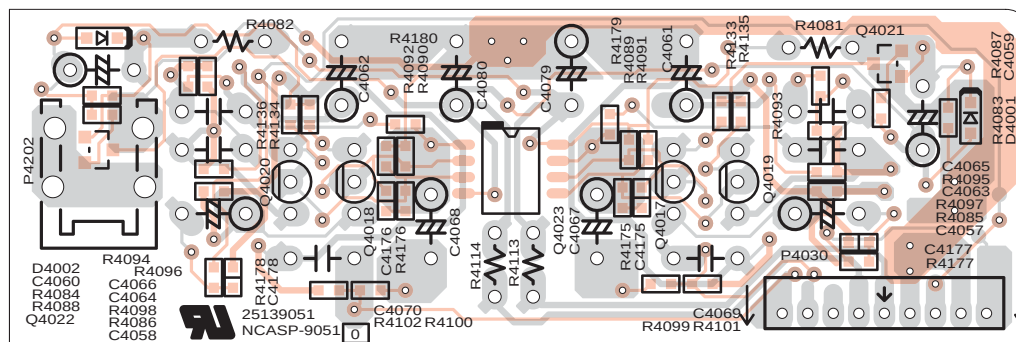
5





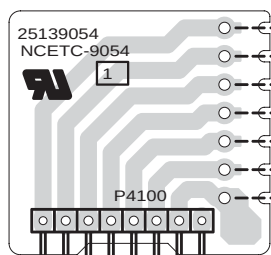
1

### Side-A



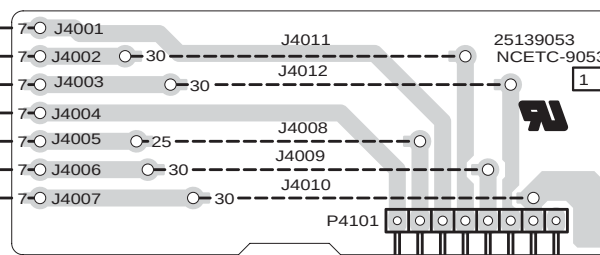
2

## Component side



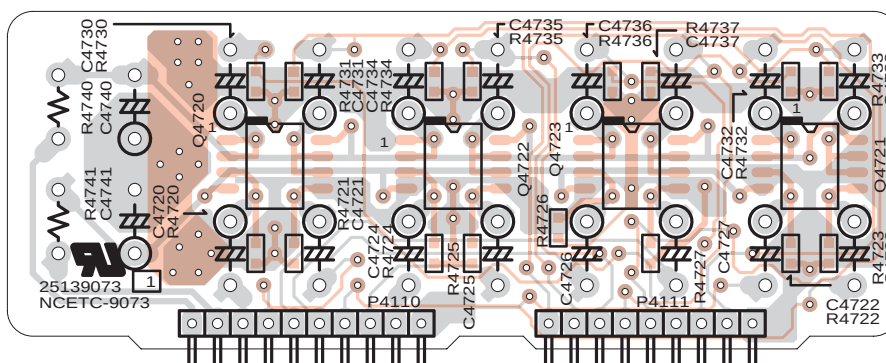
3

### Component side



4

### Side-A



5

**1**

2

3



## 5

NCPS-9058  
25139058

1

WHT

P9006B

AC-G

N

P9000

P9007B

AC-H

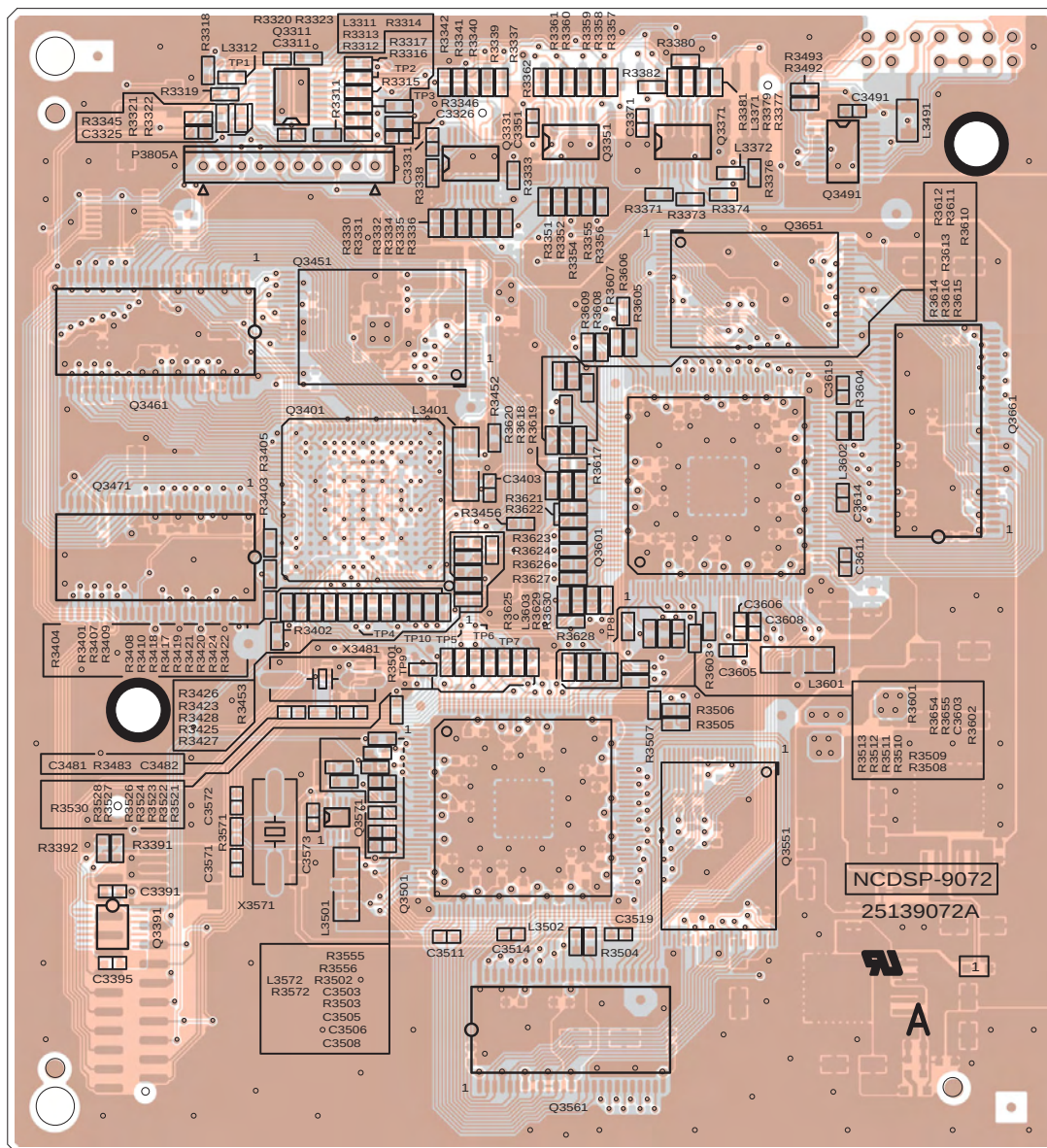
BLK

2



### Side-A

5



### Side-B

5



### Side-A

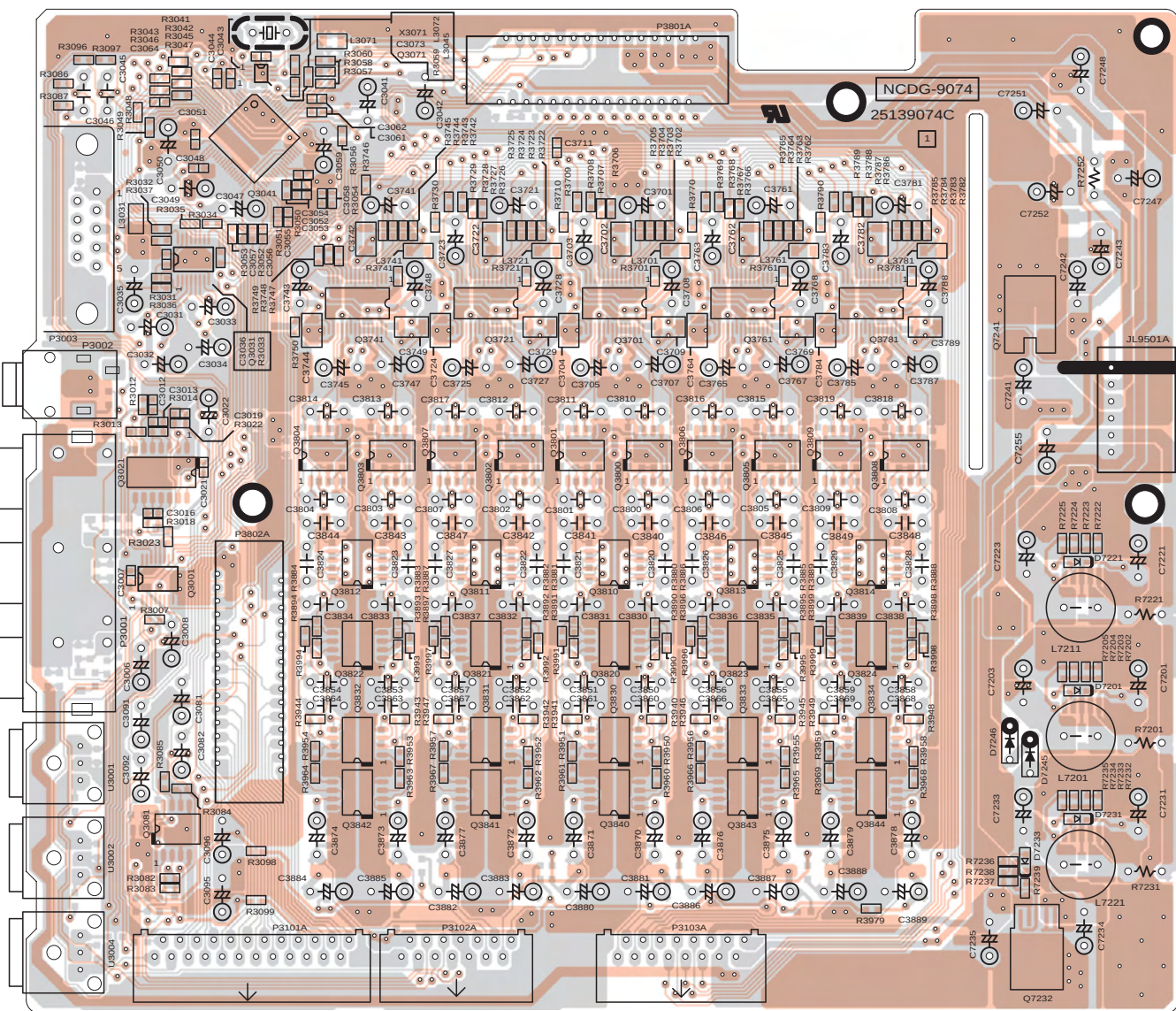
**1**

2

3

4

5





A

B

C

D

## PRINTED CIRCUIT BOARD VIEWS-8

**U09** DAC PC BOARD (NADG-9074)

Side-B

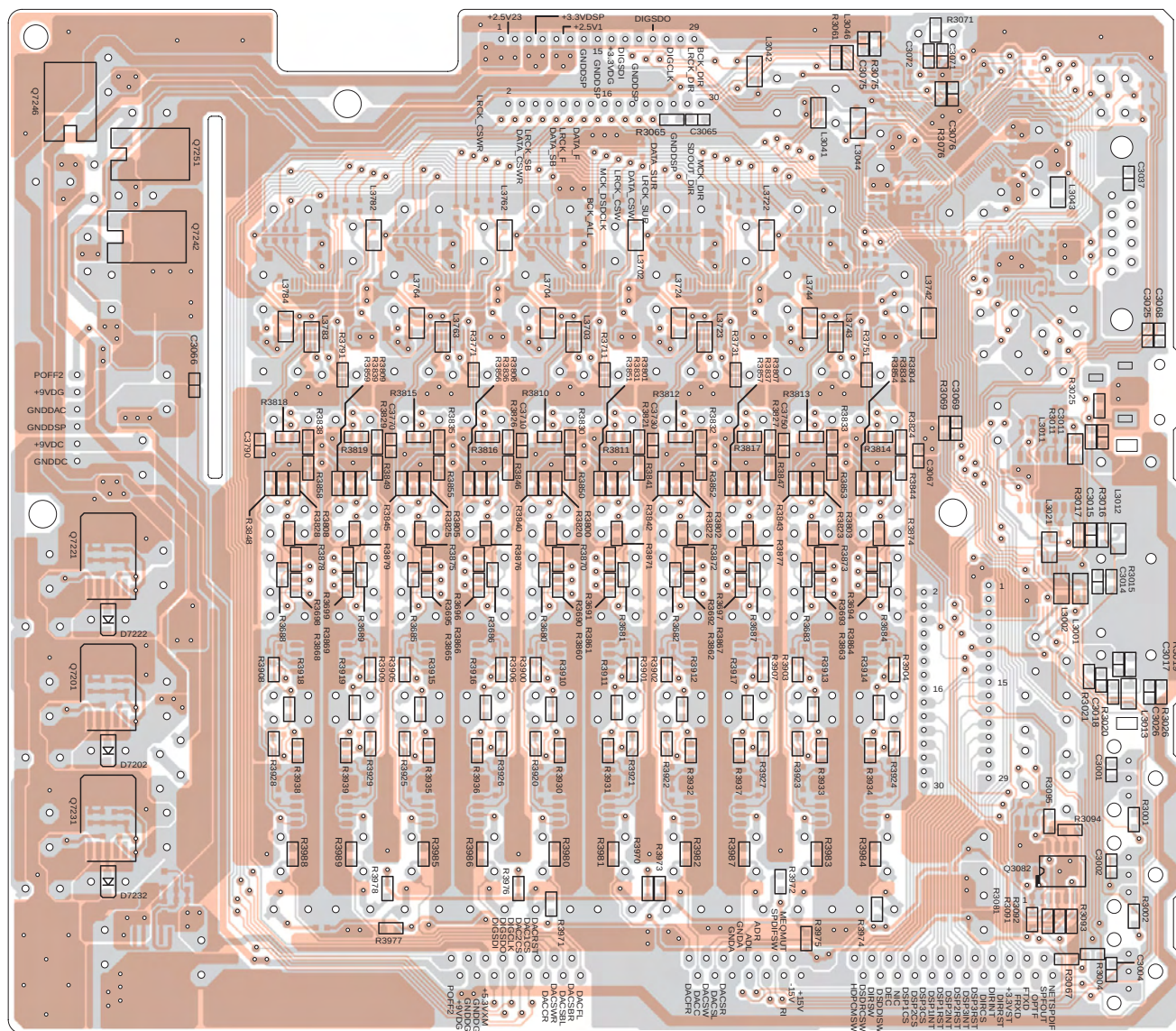
1

2

3

4

5





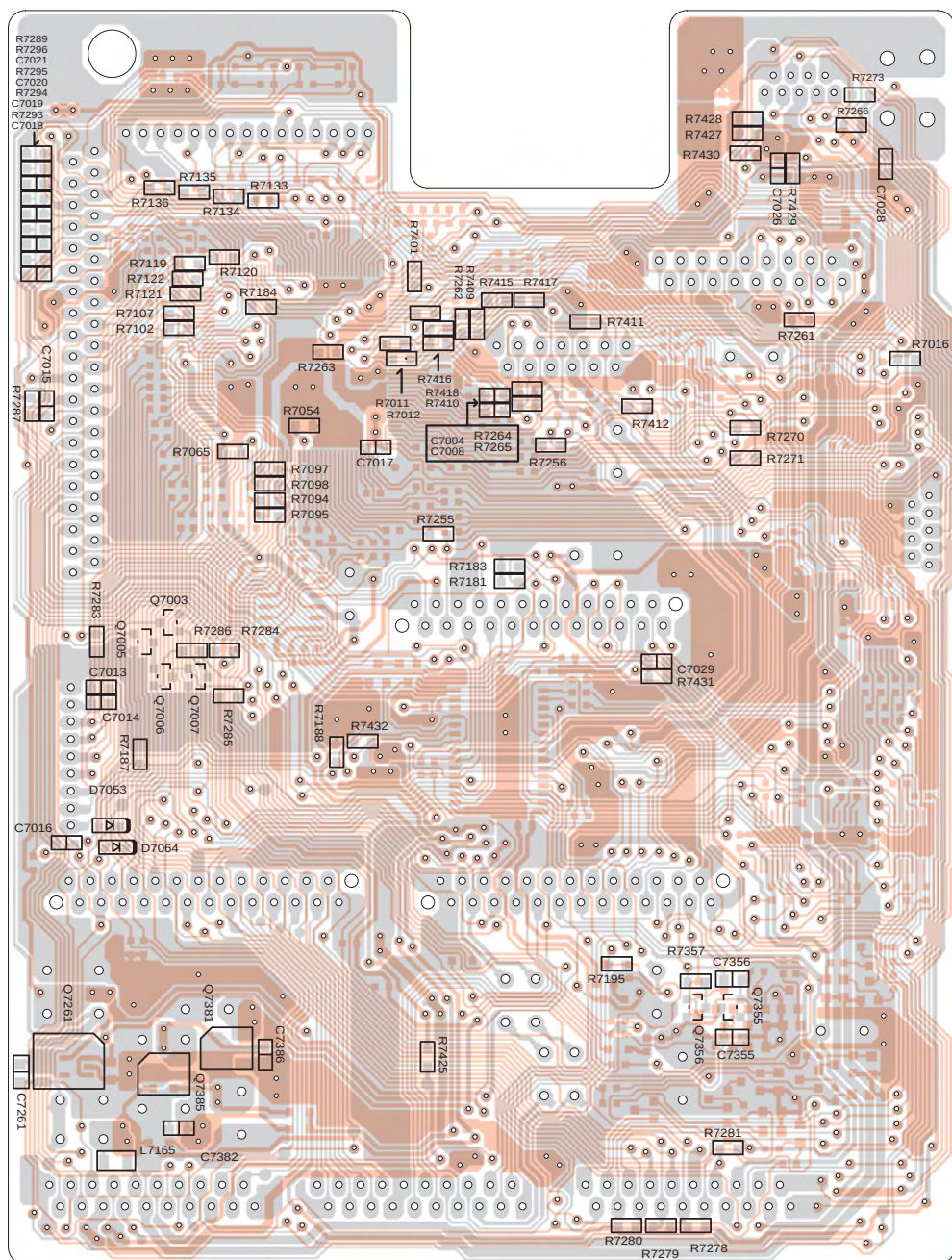
### Side-A

5

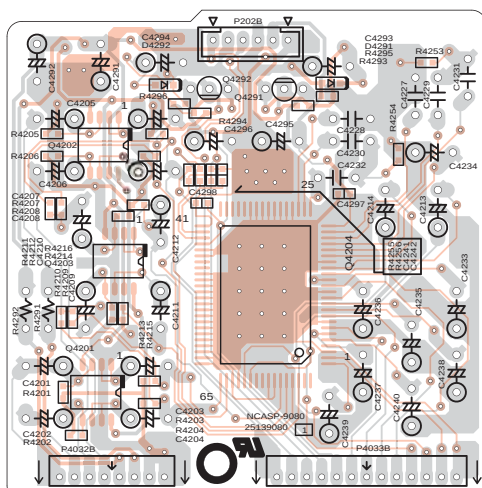


### Side-B

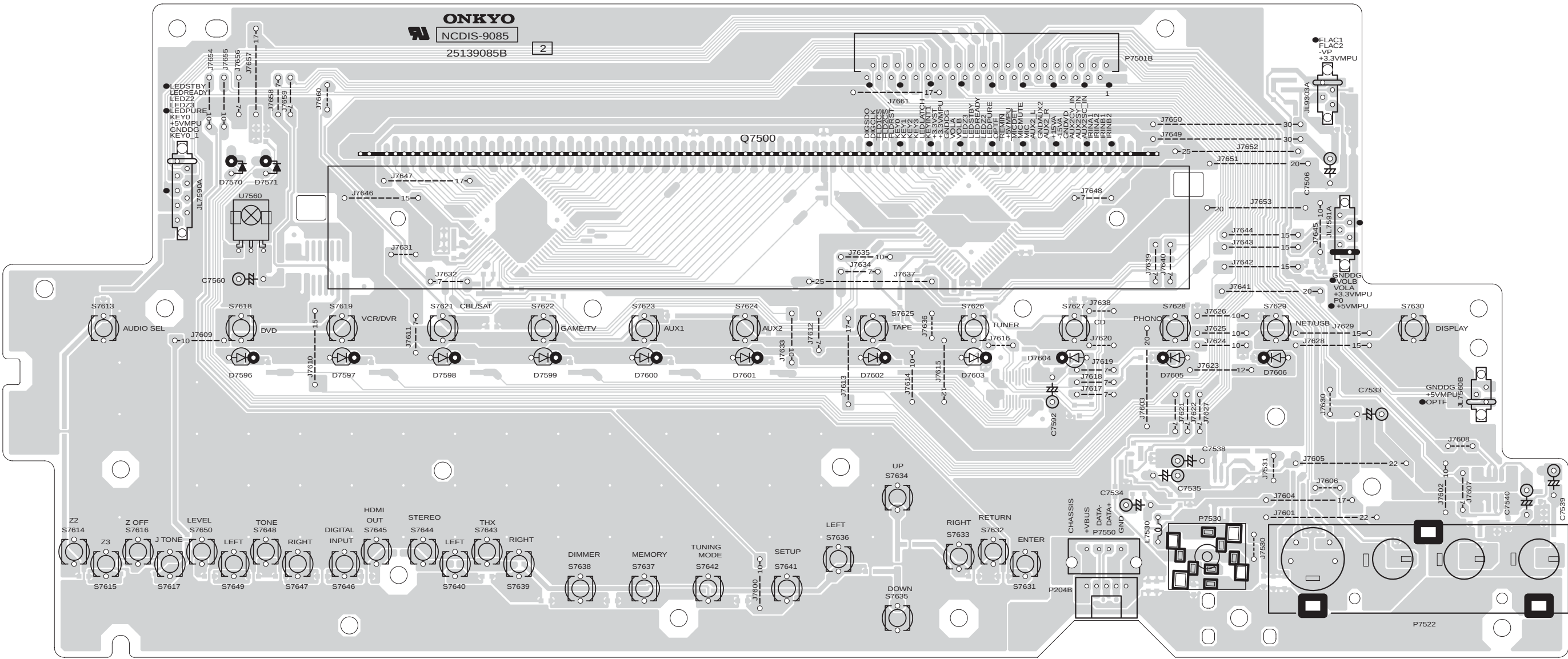
5







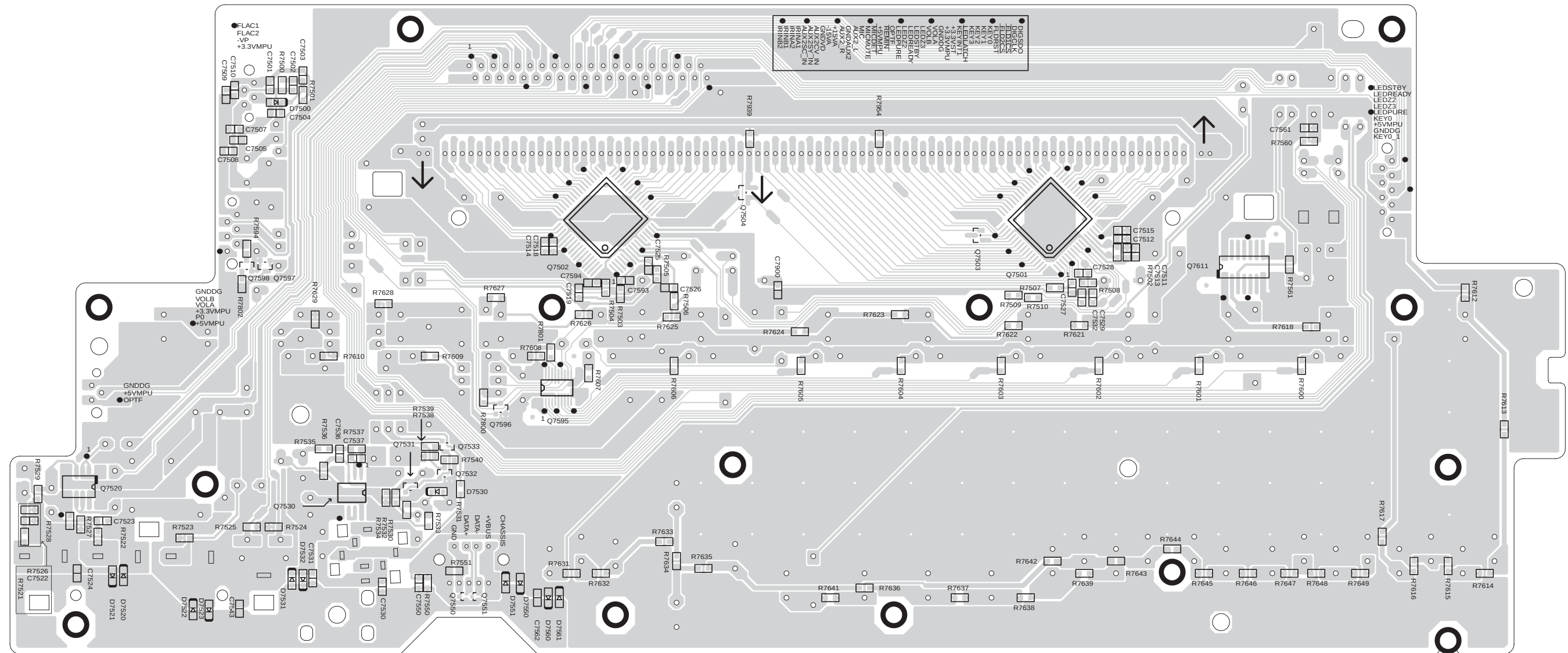
## Component side



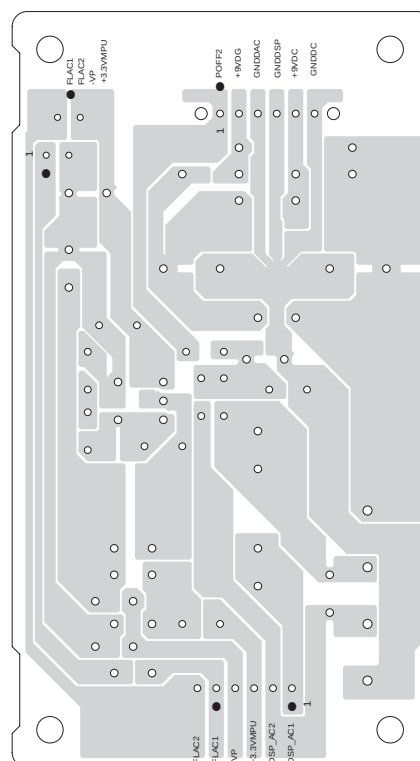
|                                | A | B | C | D | E | F | G | H |
|--------------------------------|---|---|---|---|---|---|---|---|
| PRINTED CIRCUIT BOARD VIEWS-13 |   |   |   |   |   |   |   |   |

## U17 DISPLAY PC BOARD (NADIS-9085)

**Soldering side**







A

B

C

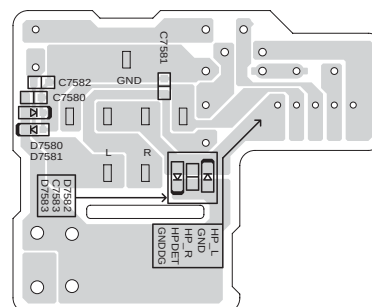
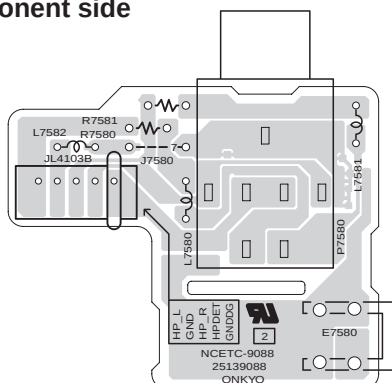
D

## PRINTED CIRCUIT BOARD VIEWS-15

**U19** HEADPHONE PC BOARD (NAETC-9088)

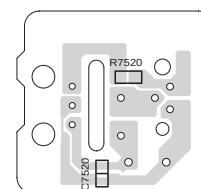
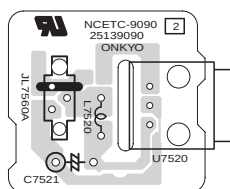
Component side

Soldering side

**U21** FRONT OPT PC BOARD (NAETC-9090)

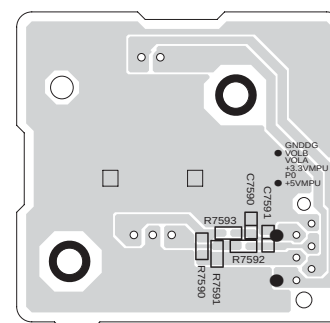
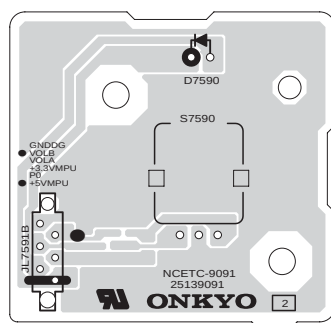
Component side

Soldering side

**U22** VOLUME PC BOARD (NAETC-9091)

Component side

Soldering side



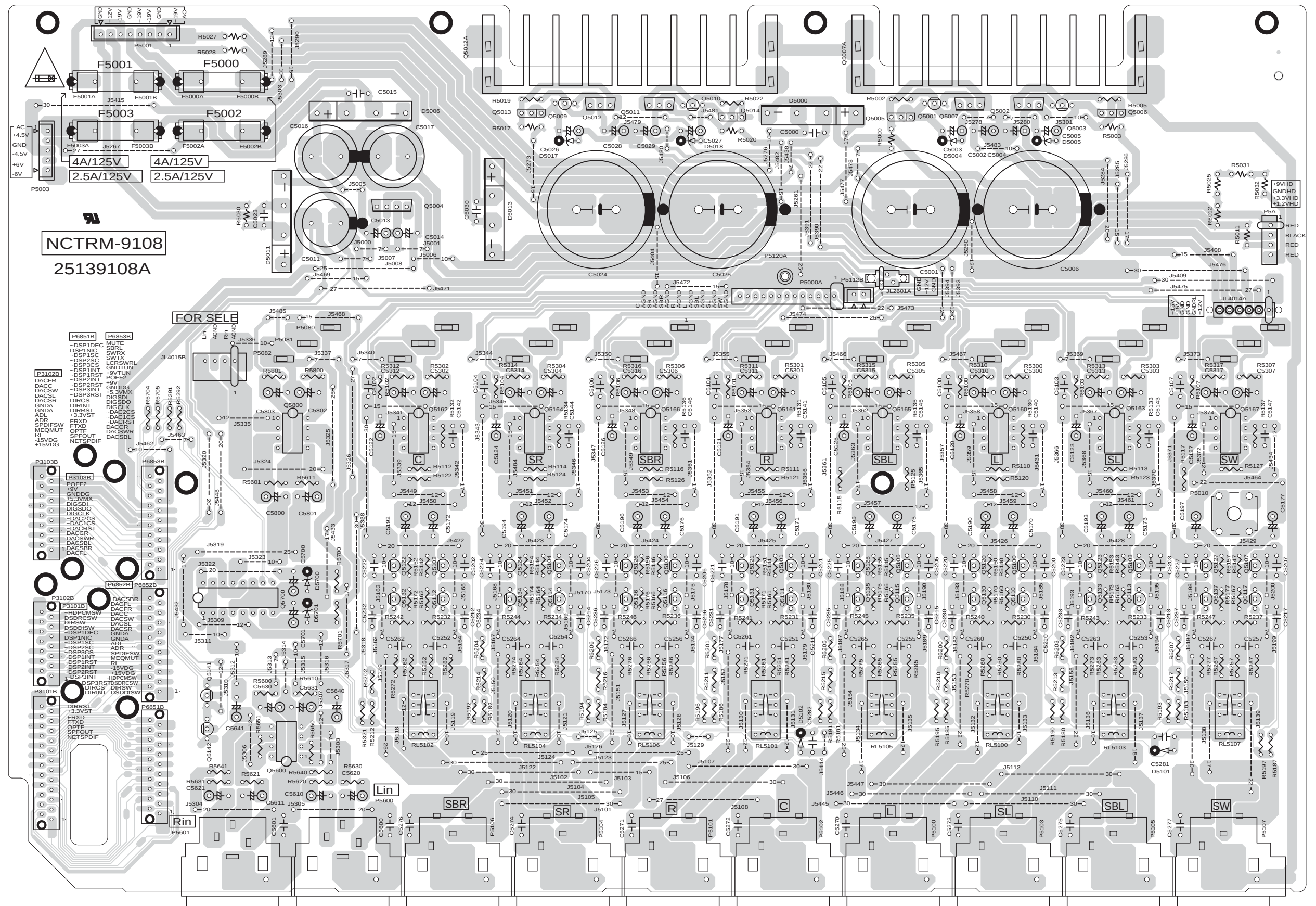
### Component side

2

3

4

5





A

B

C

D

## PRINTED CIRCUIT BOARD VIEWS-17

**U26** HDMI PC BOARD (NAHDM-9114)

Side-A

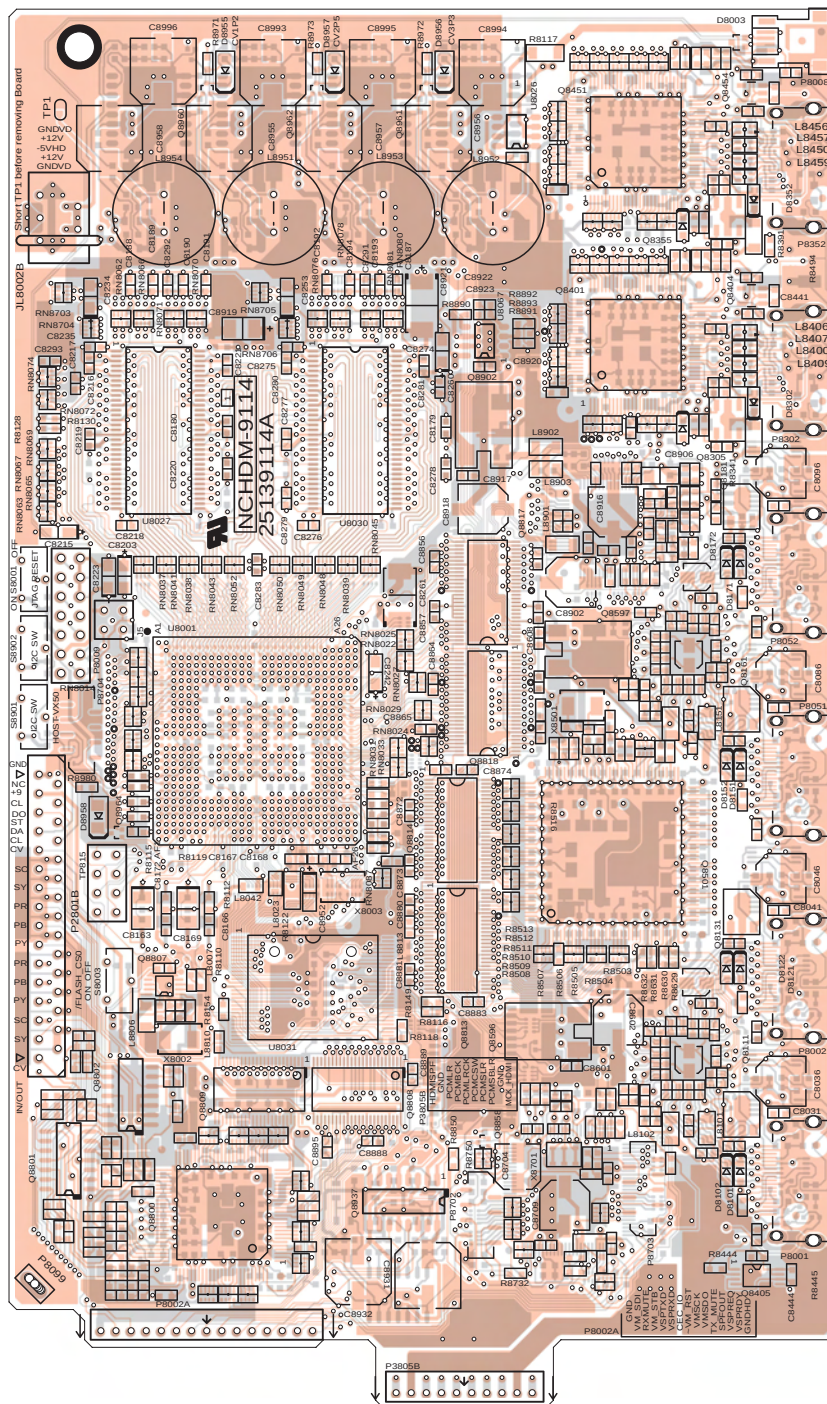
1

2

3

4

5



A

B

C

D

## PRINTED CIRCUIT BOARD VIEWS-18

**U26** HDMI PC BOARD (NAHDM-9114)

Side-B

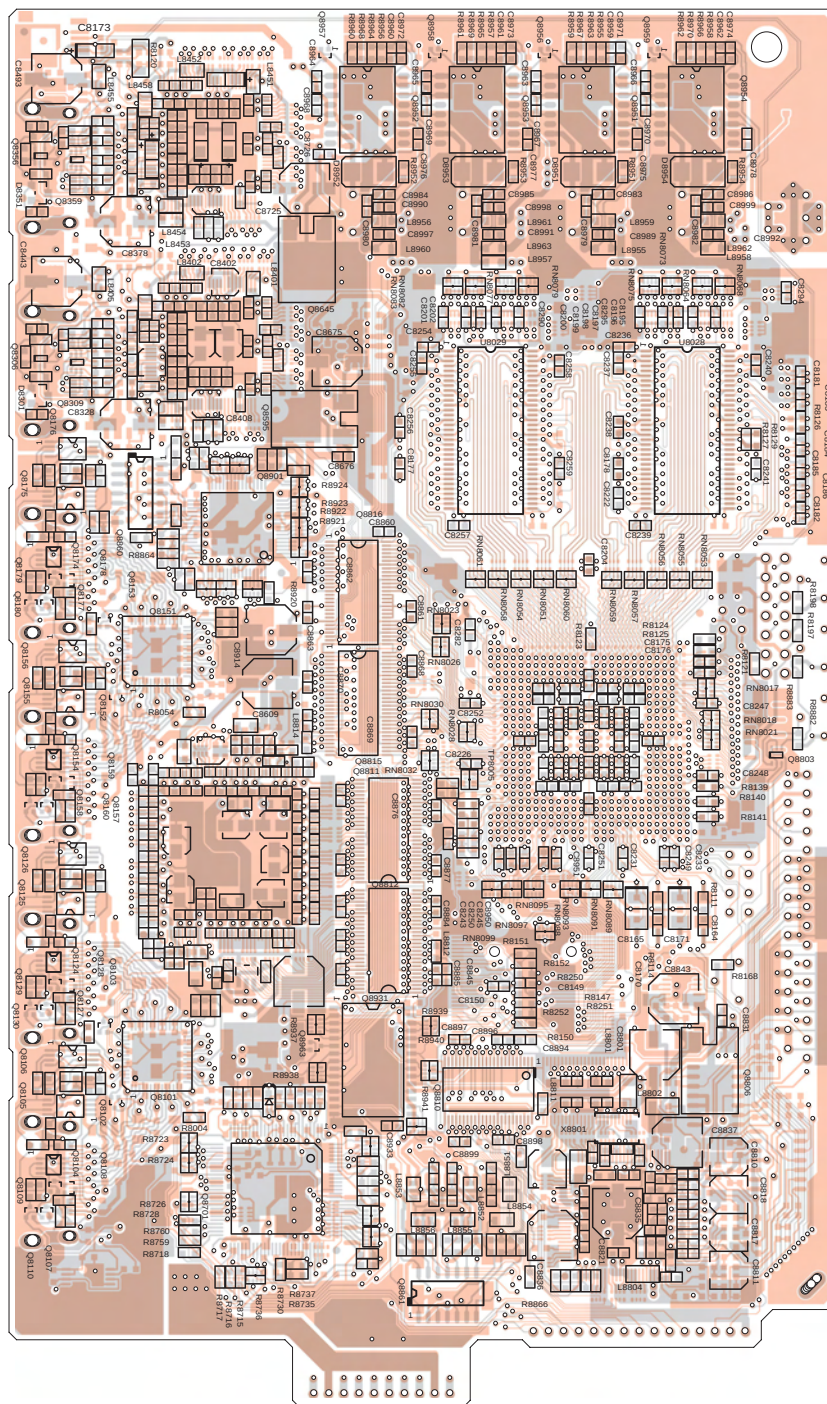
1

2

3

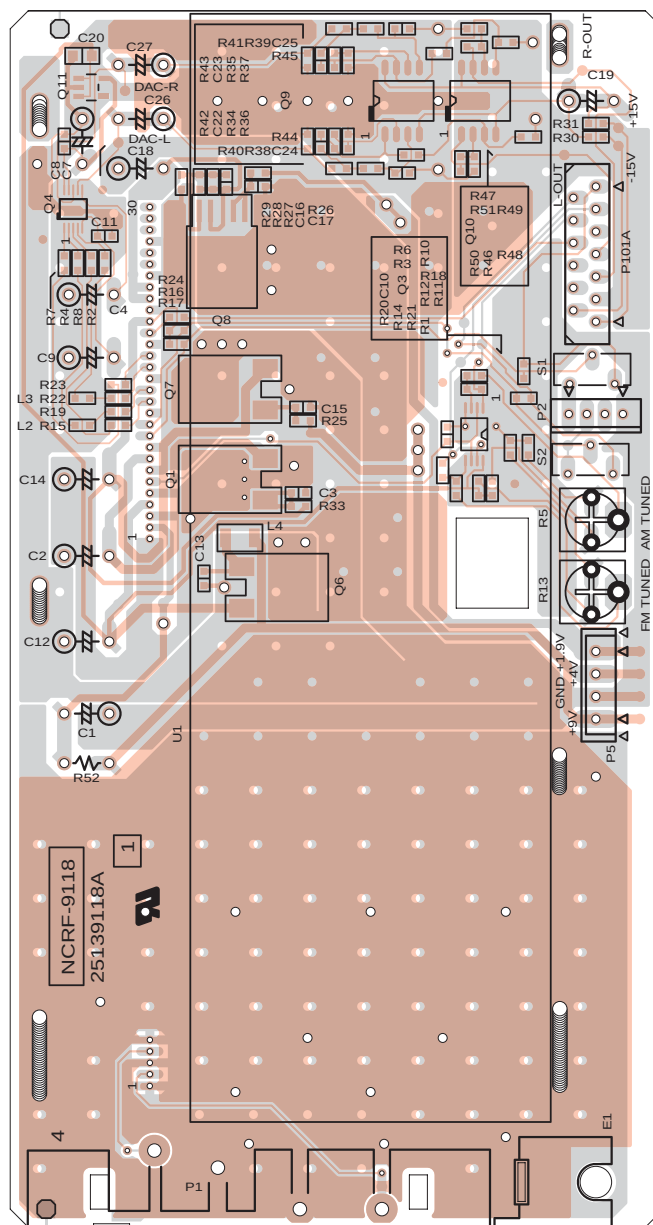
4

5





### Side-A

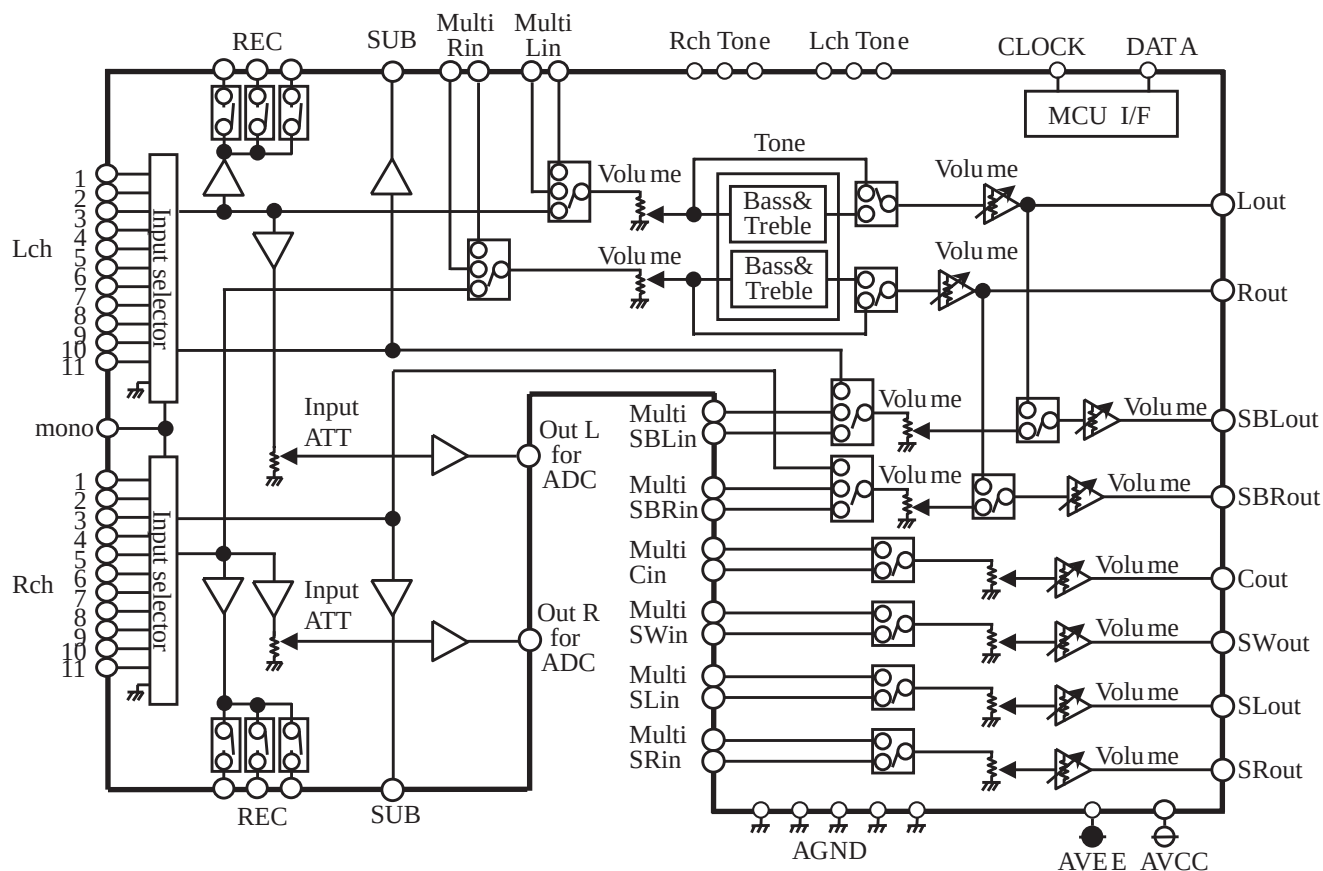




# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -1

Q4204: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)

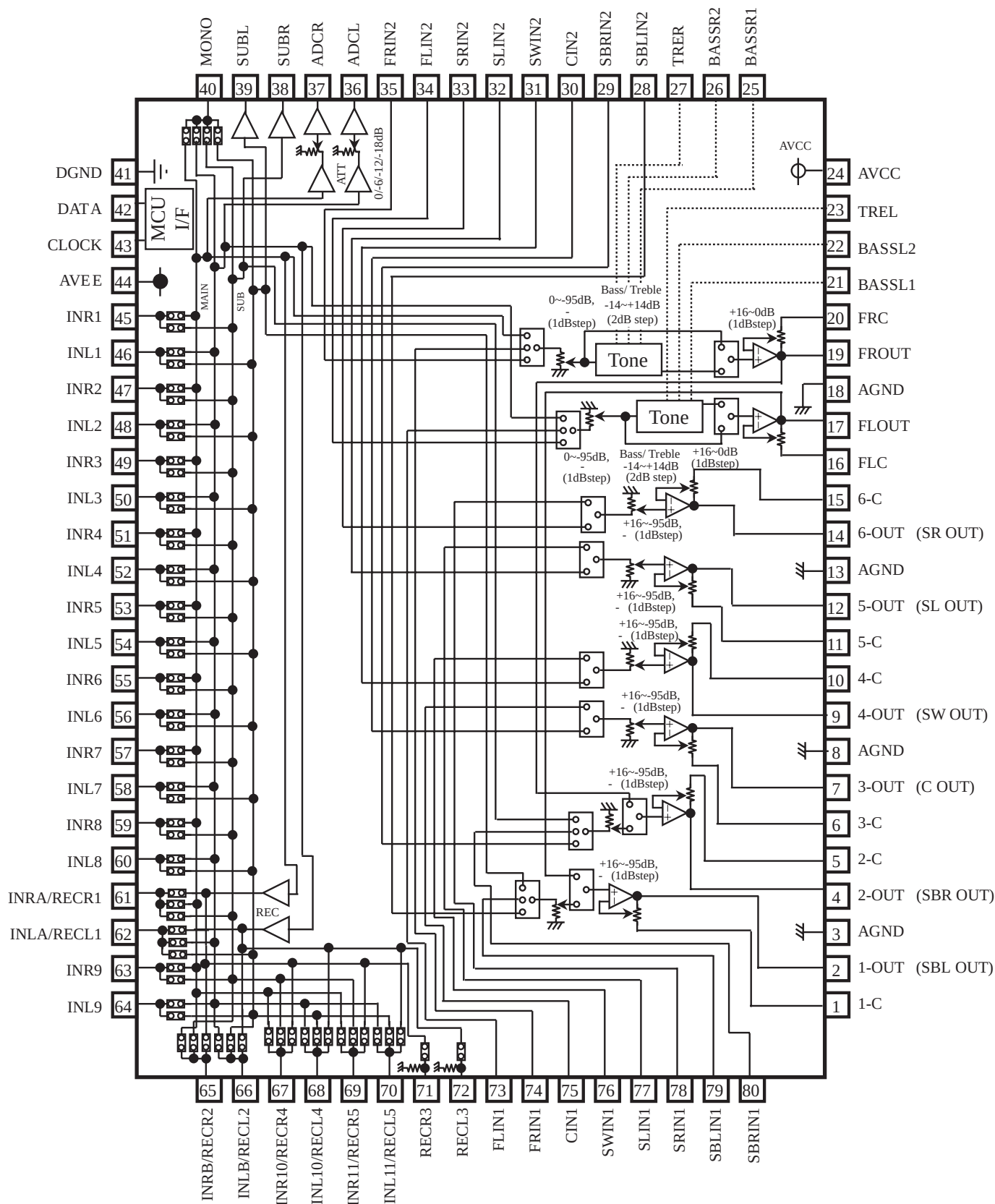
## SYSTEM BLOCK DIAGRAM



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -2

## Q4204: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)

### BLOCK DIAGRAM AND PIN CONFIGURATION



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -3

### Q4204: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)

#### TERMINAL DESCRIPTION

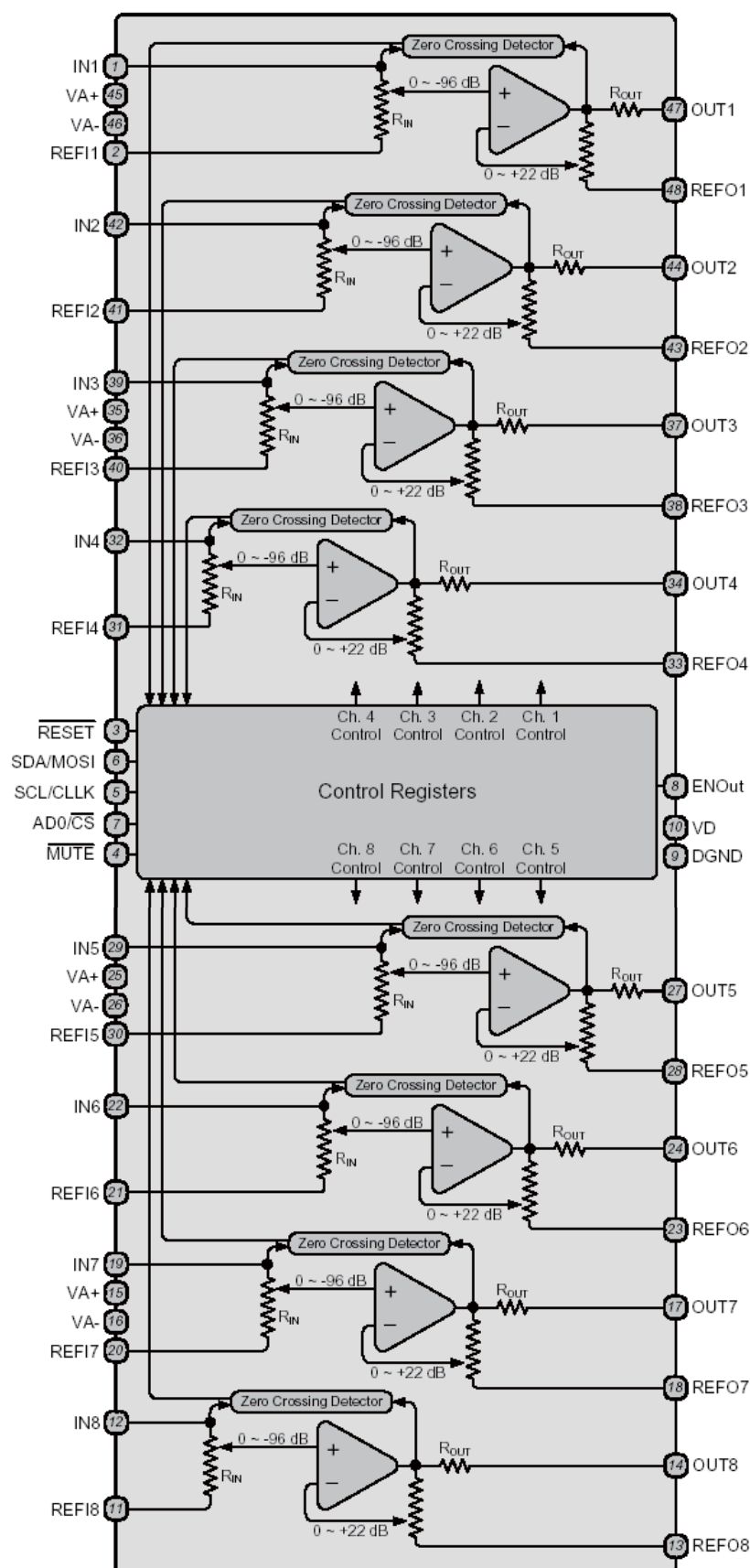
| PIN No.                             | Name                                                                                                    | Function                                                                                |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 19,17,<br>14,12,<br>9,7,<br>4,2     | FROUT,FLOUT,<br>6-OUT,5-OUT,<br>4-OUT, 3-OUT,<br>2-OUT,1-OUT                                            | Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel                                          |
| 20,16,<br>15,11,<br>10,6,<br>5,1    | FRC,FLC,<br>6-C,5-C,<br>4-C,3-C,<br>2-C,1-C                                                             | Connects capacitor for reducing click noise of<br>L/R/C/SW/SL/SR/SBL/SBR channel volume |
| 3,8,<br>13,18                       | AGND                                                                                                    | Analog ground of internal circuit                                                       |
| 23,27                               | TREL, TRER                                                                                              | Frequency characteristic setting pin of L/R channel tone control (Treble)               |
| 21,22,<br>25,26                     | BASSL1,BASSL2<br>BASSR1,BASSR2                                                                          | Frequency characteristic setting pin of L/R channel tone control (Bass)                 |
| 24                                  | AVCC                                                                                                    | Positive power supply to internal circuit                                               |
| 35,34,<br>33,32,<br>31,30,<br>29,28 | FRIN2, FLIN2,<br>SRN2,SLIN2,<br>SWIN2,CIN2,<br>SBRIN2,SBLIN2                                            | Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)                              |
| 73,74,<br>75,76,<br>77,78,<br>79,80 | FLIN1, FRIN1,<br>CIN1,SWIN1,<br>SLIN1,SRIN1,<br>SBLIN1,SBRIN1                                           |                                                                                         |
| 41                                  | DGND                                                                                                    | Digital ground of internal circuit                                                      |
| 42                                  | DATA                                                                                                    | Input pin of control data                                                               |
| 43                                  | CLOCK                                                                                                   | Input pin of control clock                                                              |
| 44                                  | AVEE                                                                                                    | Negative power supply to internal circuit                                               |
| 46,48,50,<br>52,54,56,<br>58,60,64  | INL1,INL2, INL3,<br>INL4,INL5,INL6,<br>INL7,INL8,INL9                                                   | Input pin of L/R channel (Input Selector)                                               |
| 45,47,49,<br>51,53,55,<br>57,59,63  | INR1,INR2, INR3,<br>INR4,INR5,INR6,<br>INR7,INR8,INR9                                                   |                                                                                         |
| 40                                  | MONO                                                                                                    | Input pin of monaural (Input Selector)                                                  |
| 38,39                               | SUBL,SUBR                                                                                               | Output pin for L/R channel SUB Output                                                   |
| 36,37                               | ADCL, ADCR                                                                                              | Output pin for L/R channel ADC                                                          |
| 72                                  | RECL3                                                                                                   | Output pin for L/R channel REC Output                                                   |
| 71                                  | RECR3                                                                                                   |                                                                                         |
| 61,62,<br>65,66,<br>67,68,<br>69,70 | INRA/RECR1,INLA/RECL1,<br>INRB/RECR2,INLB/RECL2,<br>INR10/RECR4,INL10/RECL4,<br>INR11/RECR5,INL11/RECL5 | Input pin of L/R channel (Input Selector)/<br>Output pin for L/R channel REC Output     |



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -4

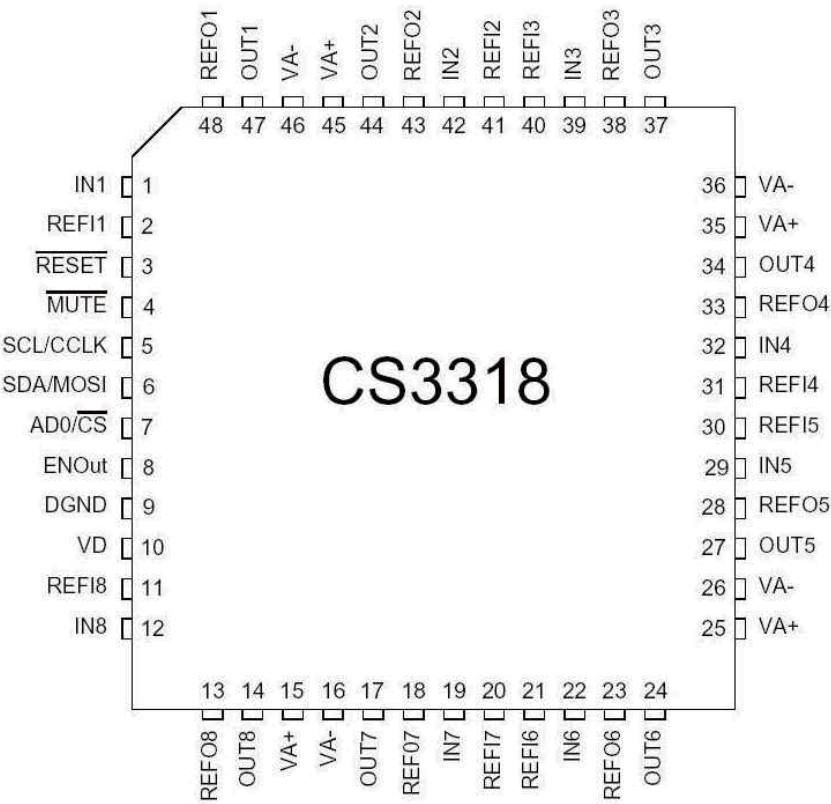
## Q4405: CS3318-CQZR (8 Channel Analog Volume Control)

### BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -5  
Q4405: CS3318-CQZR (8 Channel Analog Volume Control)

PIN CONFIGURATION



TERMINAL DESCRIPTION(1/2)

| Pin Name | #  | Pin Description                                                                                                     |
|----------|----|---------------------------------------------------------------------------------------------------------------------|
| IN1      | 1  |                                                                                                                     |
| IN2      | 42 |                                                                                                                     |
| IN3      | 39 |                                                                                                                     |
| IN4      | 32 | <b>Analog Inputs (Input)</b> - The full-scale level is specified in the Analog Characteristics specification table. |
| IN5      | 29 |                                                                                                                     |
| IN6      | 22 |                                                                                                                     |
| IN7      | 19 |                                                                                                                     |
| IN8      | 12 |                                                                                                                     |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -6

### Q4405: CS3318-CQZR (8 Channel Analog Volume Control)

#### TERMINAL DESCRIPTION(2/2)

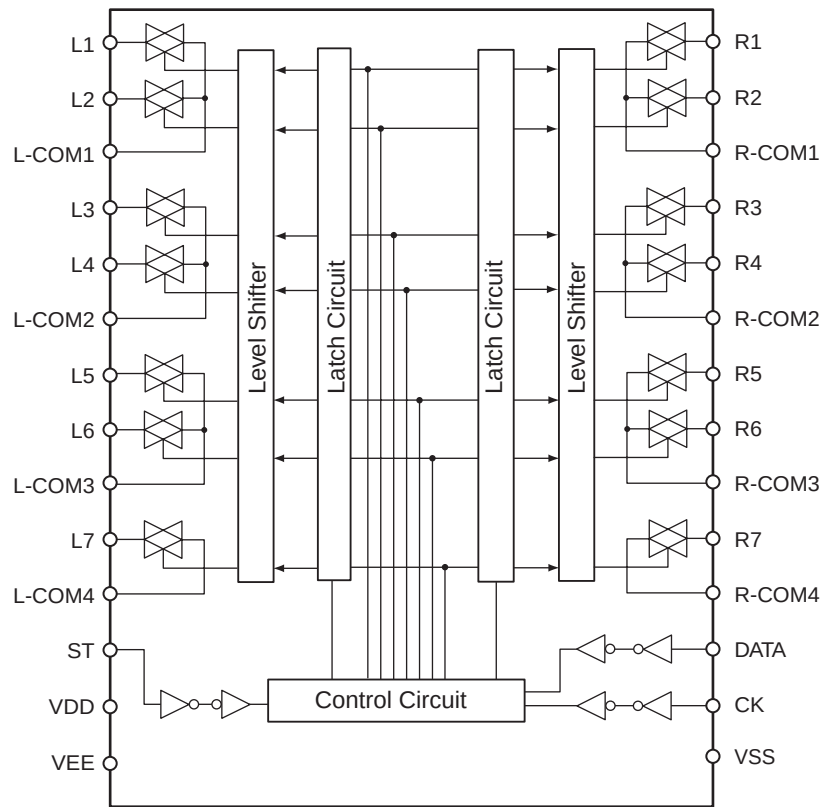
| Pin Name                    | #                       | Pin Description                                                                                                                                                                                                                  |
|-----------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OUT1                        | 47                      | <b>Analog Outputs (Output)</b> - The full-scale output level is specified in the Analog Characteristics specification table.                                                                                                     |
| OUT2                        | 44                      |                                                                                                                                                                                                                                  |
| OUT3                        | 37                      |                                                                                                                                                                                                                                  |
| OUT4                        | 34                      |                                                                                                                                                                                                                                  |
| OUT5                        | 27                      |                                                                                                                                                                                                                                  |
| OUT6                        | 24                      |                                                                                                                                                                                                                                  |
| OUT7                        | 17                      |                                                                                                                                                                                                                                  |
| OUT8                        | 14                      |                                                                                                                                                                                                                                  |
| REF11                       | 2                       | <b>Reference In (Input)</b> - Analog reference pin.                                                                                                                                                                              |
| REF12                       | 41                      |                                                                                                                                                                                                                                  |
| REF13                       | 40                      |                                                                                                                                                                                                                                  |
| REF14                       | 31                      |                                                                                                                                                                                                                                  |
| REF15                       | 30                      |                                                                                                                                                                                                                                  |
| REF16                       | 21                      |                                                                                                                                                                                                                                  |
| REF17                       | 20                      |                                                                                                                                                                                                                                  |
| REF18                       | 11                      |                                                                                                                                                                                                                                  |
| REFO1                       | 48                      | <b>Reference Out (Output)</b> - Analog reference pin.                                                                                                                                                                            |
| REFO2                       | 43                      |                                                                                                                                                                                                                                  |
| REFO3                       | 38                      |                                                                                                                                                                                                                                  |
| REFO4                       | 33                      |                                                                                                                                                                                                                                  |
| REFO5                       | 28                      |                                                                                                                                                                                                                                  |
| REFO6                       | 23                      |                                                                                                                                                                                                                                  |
| REFO7                       | 18                      |                                                                                                                                                                                                                                  |
| REFO8                       | 13                      |                                                                                                                                                                                                                                  |
| VA+                         | 15,<br>25,<br>35,<br>45 | <b>Positive Analog Power (Input)</b> - Positive power for the internal analog section.                                                                                                                                           |
| VA-                         | 16,<br>26,<br>36,<br>46 | <b>Negative Analog Power (Input)</b> - Negative power for the internal analog section.                                                                                                                                           |
| RESET                       | 3                       | <b>Reset (Input)</b> - The device enters a low-power mode when this pin is driven low.                                                                                                                                           |
| MUTE                        | 4                       | <b>Mute (Input)</b> - This pin defaults to an active low mute input, and may be configured as an active high mute input.                                                                                                         |
| SCL/CCLK                    | 5                       | <b>Serial Control Port Clock (Input)</b> - Serial clock for the serial control port.                                                                                                                                             |
| SDA/MOSI                    | 6                       | <b>Serial Control Data (Input/Output)</b> - SDA is a data I/O line for the control port interface in I <sup>2</sup> C Mode. MOSI is the input data line for the control port interface in SPI Mode.                              |
| AD0/ $\overline{\text{CS}}$ | 7                       | <b>Default Address Bit 0 (I<sup>2</sup>C) / Control Port Chip Select (SPI) (Input)</b> - AD0 sets the LSB of the default chip address in I <sup>2</sup> C Mode. $\overline{\text{CS}}$ is the chip-select signal for SPI format. |
| ENOut                       | 8                       | <b>Enable Output (Output)</b> - Enable output signal for multi-device serial control chain configuration.                                                                                                                        |
| DGND                        | 9                       | <b>Digital Ground (Input)</b> - Ground reference for the internal digital section.                                                                                                                                               |
| VD                          | 10                      | <b>Digital Power (Input)</b> - Positive power for the internal digital section.                                                                                                                                                  |



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -10

### Q4306: NJU7311AM(Analog Function Switch)

#### BLOCK DIAGRAM



#### TERMINAL DESCRIPTION

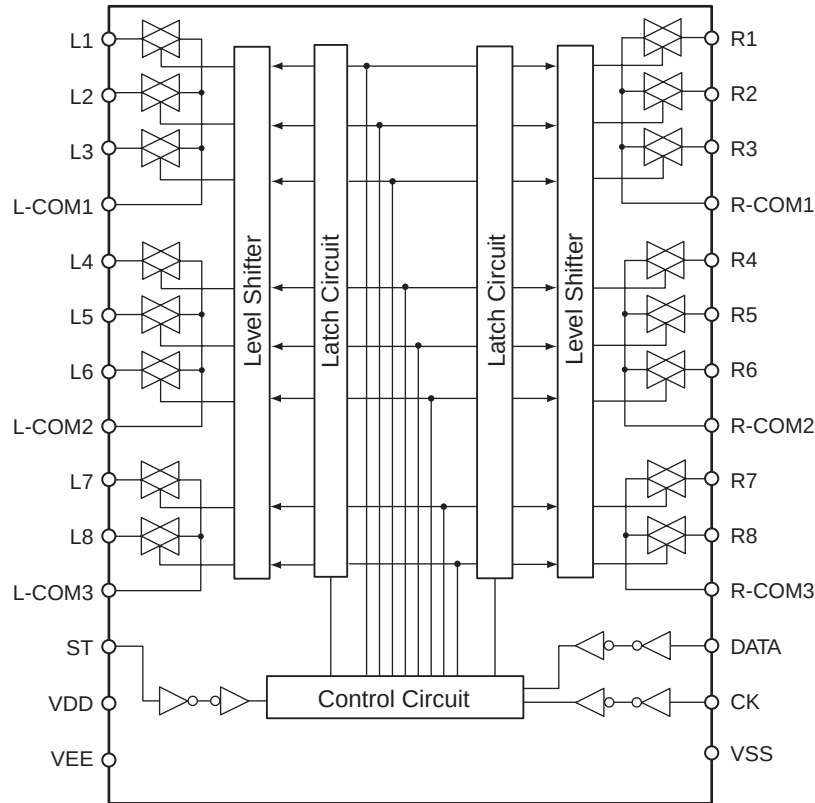
| Pin No. | Pin Name | Description                |
|---------|----------|----------------------------|
| 1       | VEE      | Negative Voltage Supply    |
| 2       | L1       | Analog switch input/output |
| 3       | L2       | Analog switch input/output |
| 4       | L-COM1   | L1, L2, Common             |
| 5       | L3       | Analog switch input/output |
| 6       | L4       | Analog switch input/output |
| 7       | L-COM2   | L3, L4 common              |
| 8       | L5       | Analog switch input/output |
| 9       | L6       | Analog switch input/output |
| 10      | L-COM3   | L5, L6 Common              |
| 11      | L7       | Analog switch input/output |
| 12      | L-COM4   | L7 Common                  |
| 14      | ST       | Chip enable                |
| 15      | VSS      | GND                        |

| Pin No. | Pin Name | Description                |
|---------|----------|----------------------------|
| 16      | CK       | Clock input                |
| 17      | DATA     | Data input                 |
| 19      | R-COM4   | R7 Common                  |
| 20      | R7       | Analog switch input/output |
| 21      | R-COM3   | R5, R6 Common              |
| 22      | R6       | Analog switch input/output |
| 23      | R5       | Analog switch input/output |
| 24      | R-COM2   | R3, R4 Common              |
| 25      | R4       | Analog switch input/output |
| 26      | R3       | Analog switch input/output |
| 27      | R-COM1   | R1, R2, Common             |
| 28      | R2       | Analog switch input/output |
| 29      | R1       | Analog switch input/output |
| 30      | VDD      | Positive voltage supply    |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -11

### Q2027, Q4304, Q7181: NJU7312AM(Analog Function Switch)

#### BLOCK DIAGRAM



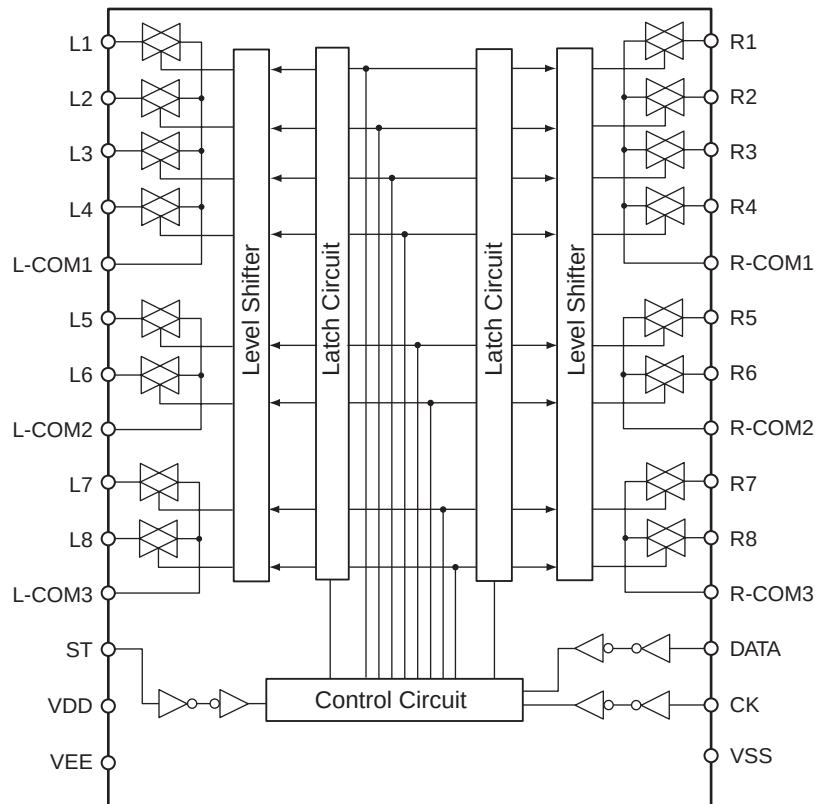
#### TERMINAL DESCRIPTION

| Pin No. | Pin Name | Description                | Pin No. | Pin Name | Description                |
|---------|----------|----------------------------|---------|----------|----------------------------|
| 1       | VEE      | Negative Voltage Supply    | 16      | CK       | Clock input/output         |
| 2       | L1       | Analog switch input/output | 17      | DATA     | Data input                 |
| 3       | L2       | Analog switch input/output | 19      | R-COM3   | R7, R8 Common              |
| 4       | L3       | Analog switch input/output | 20      | R8       | Analog switch input/output |
| 5       | L-COM1   | L1, L2, L3 Common          | 21      | R7       | Analog switch input/output |
| 6       | L4       | Analog switch input/output | 22      | R-COM2   | R4, R5, R6 Common          |
| 7       | L5       | Analog switch input/output | 23      | R6       | Analog switch input/output |
| 8       | L6       | Analog switch input/output | 24      | R5       | Analog switch input/output |
| 9       | L-COM2   | L4, L5, L6 common          | 25      | R4       | Analog switch input/output |
| 10      | L7       | Analog switch input/output | 26      | R-COM1   | R1, R2, R3 Common          |
| 11      | L8       | Analog switch input/output | 27      | R3       | Analog switch input/output |
| 12      | L-COM3   | L7, L8 Common              | 28      | R2       | Analog switch input/output |
| 14      | ST       | Chip enable                | 29      | R1       | Analog switch input/output |
| 15      | VSS      | GND                        | 30      | VDD      | Positive voltage supply    |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -12

### Q4305: NJU7313AM (Analog Function Switch)

#### BLOCK DI AGRAM



#### TERMINAL DESCRIPTION

| Pin No. | Pin Name | Description                |
|---------|----------|----------------------------|
| 1       | VEE      | Negative Voltage Supply    |
| 2       | L1       | Analog switch input/output |
| 3       | L2       | Analog switch input/output |
| 4       | L3       | Analog switch input/output |
| 5       | L4       | Analog switch input/output |
| 6       | L-COM1   | L1, L2, L3, L4 Common      |
| 7       | L5       | Analog switch input/output |
| 8       | L6       | Analog switch input/output |
| 9       | L-COM2   | L5, L6 common              |
| 10      | L7       | Analog switch input/output |
| 11      | L8       | Analog switch input/output |
| 12      | L-COM3   | L7, L8 Common              |
| 14      | ST       | Chip enable                |
| 15      | VSS      | GND                        |

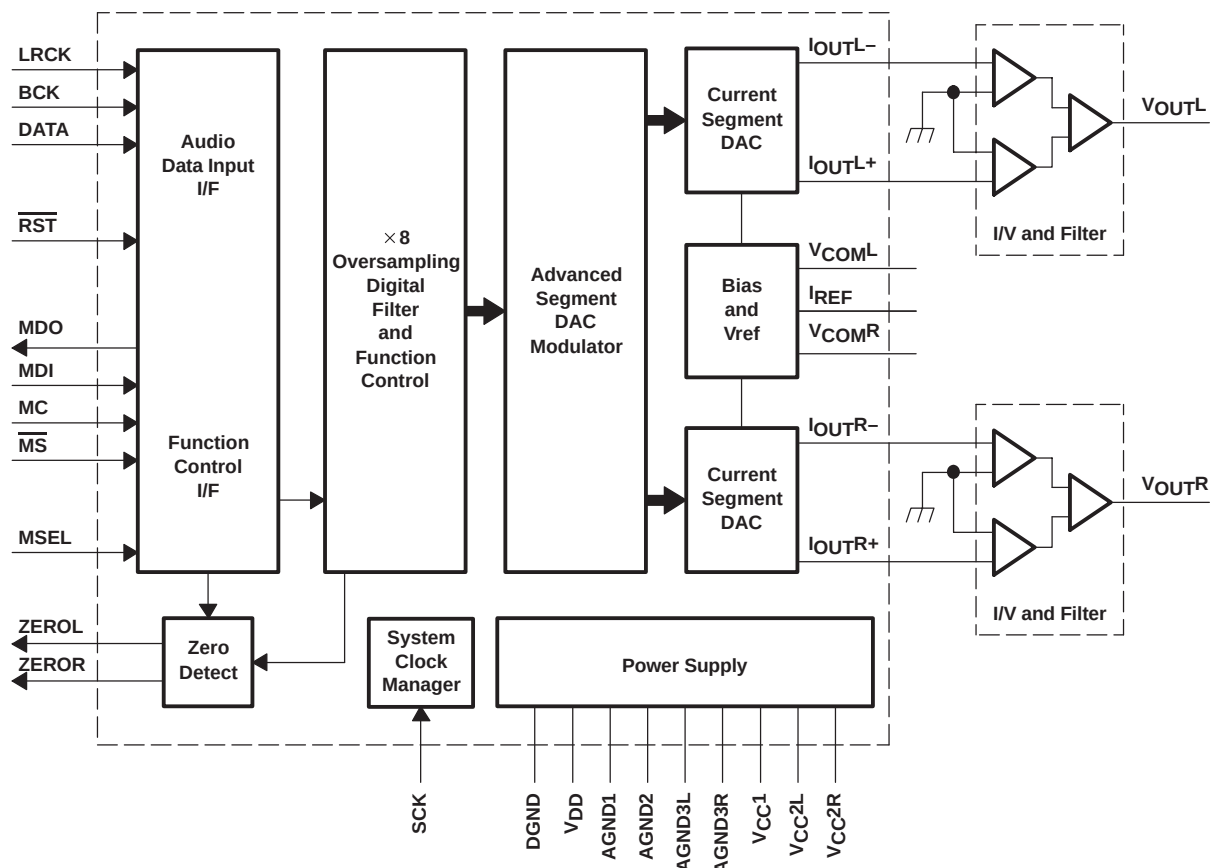
| Pin No. | Pin Name | Description                |
|---------|----------|----------------------------|
| 16      | CK       | Clock input                |
| 17      | DATA     | Data input                 |
| 19      | R-COM3   | R7, R8 Common              |
| 20      | R8       | Analog switch input/output |
| 21      | R7       | Analog switch input/output |
| 22      | R-COM2   | R5, R6 Common              |
| 23      | R6       | Analog switch input/output |
| 24      | R5       | Analog switch input/output |
| 25      | R-COM1   | R1, R2, R3, R4 Common      |
| 26      | R4       | Analog switch input/output |
| 27      | R3       | Analog switch input/output |
| 28      | R2       | Analog switch input/output |
| 29      | R1       | Analog switch input/output |
| 30      | VDD      | Positive voltage supply    |



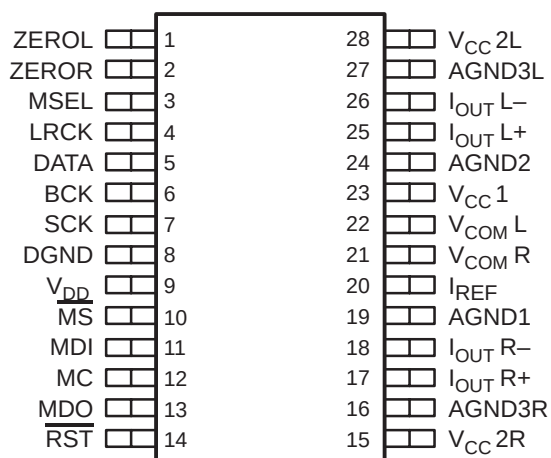
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -13

Q3701,Q3721,Q3741,Q3761,Q3781: PCM1796DBR (24 bit, 192 kHz, 2ch DAC)

## BLOCK DIAGRAM



## PIN CONFIGURATION



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -14

Q3701,Q3721,Q3741,Q3761,Q3781: PCM1796DBR (24 bit, 192 kHz, 2ch DAC)

## TERMINAL DESCRIPTION

| TERMINAL<br>NAME        | PIN | I/O | DESCRIPTIONS                                                |
|-------------------------|-----|-----|-------------------------------------------------------------|
| AGND1                   | 19  | –   | Analog ground (internal bias)                               |
| AGND2                   | 24  | –   | Analog ground (internal bias)                               |
| AGND3L                  | 27  | –   | Analog ground (L-channel DACFF)                             |
| AGND3R                  | 16  | –   | Analog ground (R-channel DACFF)                             |
| BCK                     | 6   | I   | Bit clock input <sup>(1)</sup>                              |
| DATA                    | 5   | I   | Serial audio data input <sup>(1)</sup>                      |
| DGND                    | 8   | –   | Digital ground                                              |
| I <sub>OUT</sub> L+     | 25  | O   | L-channel analog current output+                            |
| I <sub>OUT</sub> L–     | 26  | O   | L-channel analog current output–                            |
| I <sub>OUT</sub> R+     | 17  | O   | R-channel analog current output+                            |
| I <sub>OUT</sub> R–     | 18  | O   | R-channel analog current output–                            |
| I <sub>REF</sub>        | 20  | –   | Output current reference bias pin                           |
| LRCK                    | 4   | I   | Left and right clock (f <sub>S</sub> ) input <sup>(1)</sup> |
| MC                      | 12  | I   | Mode control clock input <sup>(1)</sup>                     |
| MDI                     | 11  | I   | Mode control data input <sup>(1)</sup>                      |
| MDO                     | 13  | I/O | Mode control readback data output <sup>(3)</sup>            |
| $\overline{\text{MS}}$  | 10  | I/O | Mode control chip-select input <sup>(2)</sup>               |
| MSEL                    | 3   | I   | I <sup>2</sup> C/SPI select <sup>(1)</sup>                  |
| $\overline{\text{RST}}$ | 14  | I   | Reset <sup>(1)</sup>                                        |
| SCK                     | 7   | I   | System clock input <sup>(1)</sup>                           |
| V <sub>CC</sub> 1       | 23  | –   | Analog power supply, 5 V                                    |
| V <sub>CC</sub> 2L      | 28  | –   | Analog power supply (L-channel DACFF), 5 V                  |
| V <sub>CC</sub> 2R      | 15  | –   | Analog power supply (R-channel DACFF), 5 V                  |
| V <sub>COM</sub> L      | 22  | –   | L-channel internal bias decoupling pin                      |
| V <sub>COM</sub> R      | 21  | –   | R-channel internal bias decoupling pin                      |
| V <sub>DD</sub>         | 9   | –   | Digital power supply, 3.3 V                                 |
| ZEROL                   | 1   | I/O | Zero flag for L-channel <sup>(2)</sup>                      |
| ZEROR                   | 2   | I/O | Zero flag for R-channel <sup>(2)</sup>                      |

(1) Schmitt-trigger input, 5-V tolerant

(2) Schmitt-trigger input and output. 5-V tolerant input and CMOS output

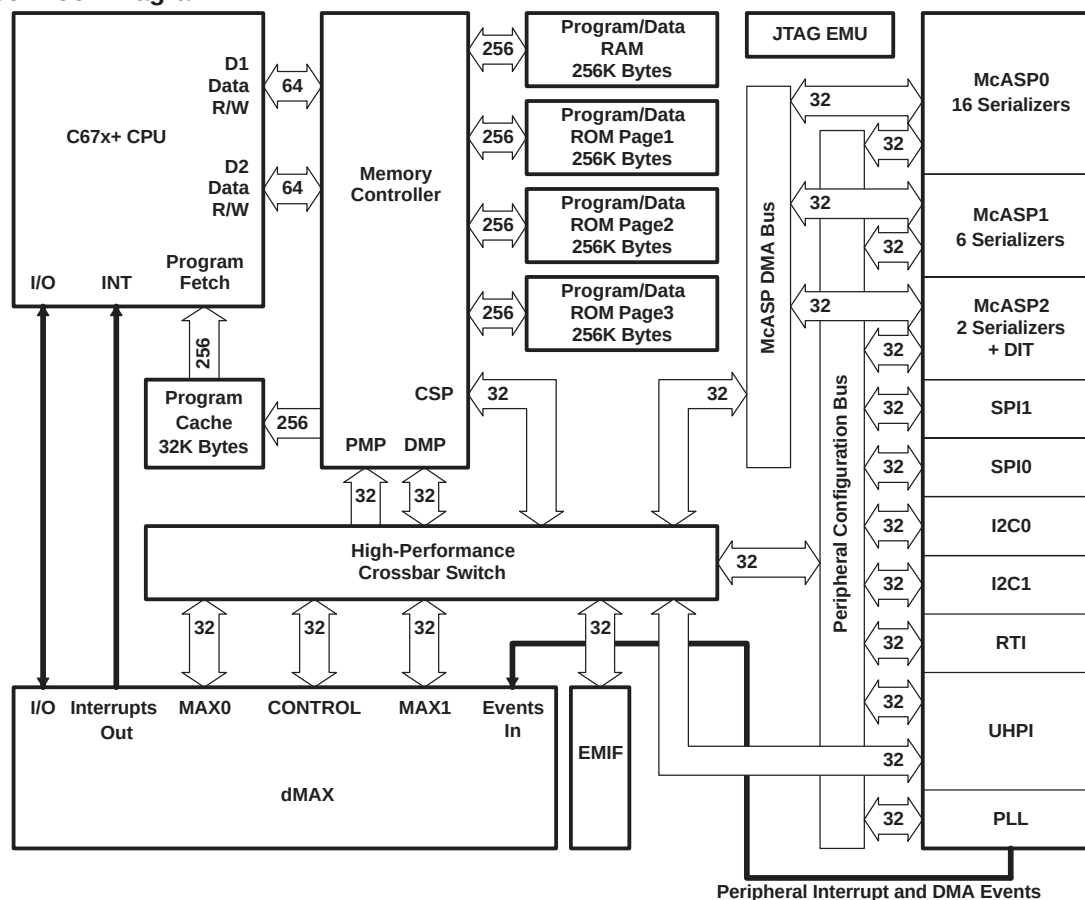
(3) Schmitt-trigger input and output. 5-V tolerant input. In I<sup>2</sup>C mode, this pin becomes an open-drain 3-state output; otherwise, this pin is a CMOS output.

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -15

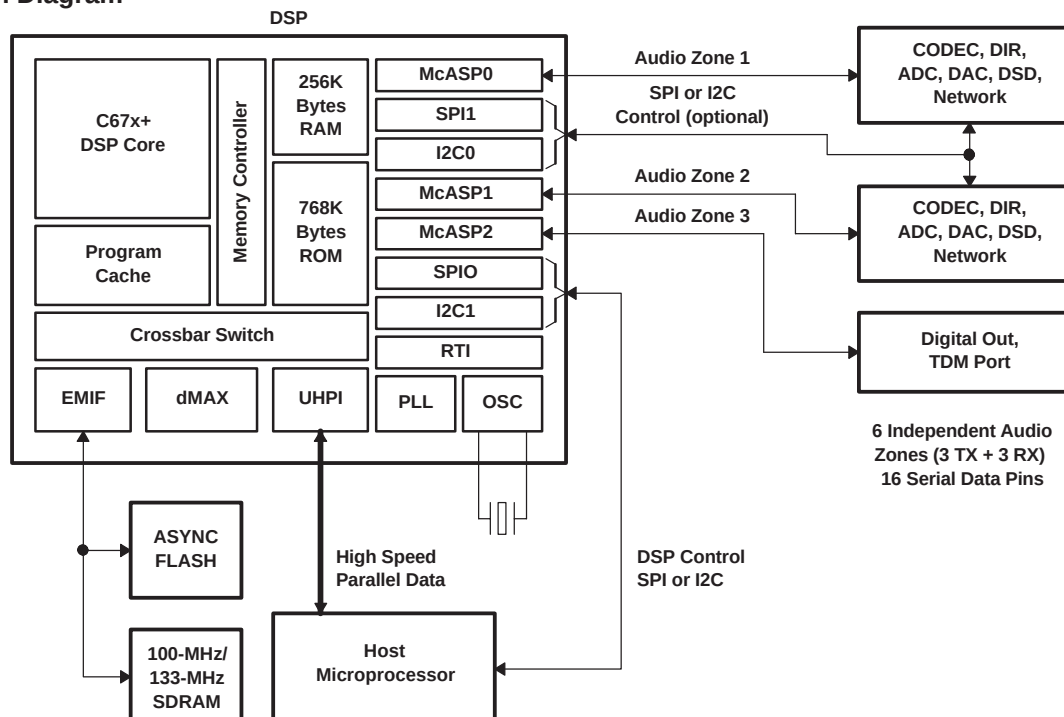
## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### BLOCK DIAGRAM

Device Block Diagram



System Diagram





# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -16

## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### PIN CONFIGURATION(1/2)

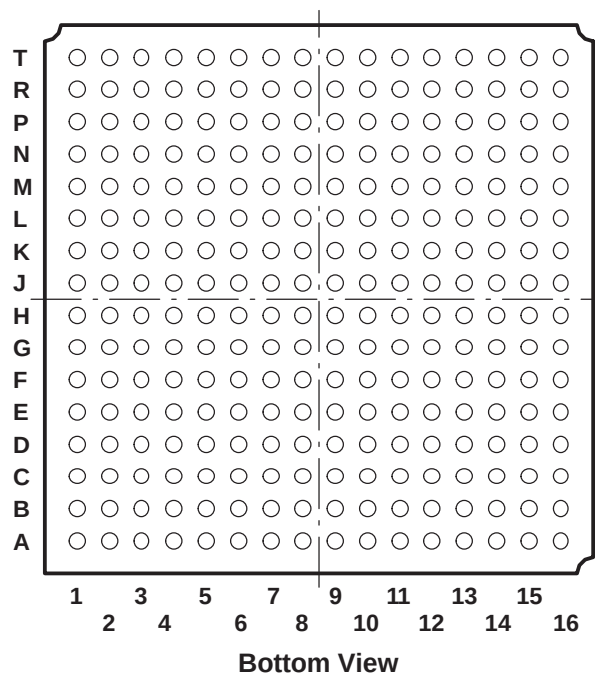
#### PIN MAP

|   |                            |                                  |                             |                                   |                                  |                                  |                                  |                               |                                   |                              |                             |                  |                                   |                        |                                   |                             |
|---|----------------------------|----------------------------------|-----------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|-----------------------------------|------------------------------|-----------------------------|------------------|-----------------------------------|------------------------|-----------------------------------|-----------------------------|
| T | V <sub>SS</sub>            | DV <sub>DD</sub>                 | $\overline{\text{EM\_WE}}$  | EM_D[7]                           | EM_D[5]                          | EM_D[3]                          | V <sub>SS</sub>                  | EM_D[0]                       | EM_D[14]                          | V <sub>SS</sub>              | EM_D[11]                    | EM_D[9]          | EM $\overline{\text{WE}}$ _DQM[1] | EM_CKE                 | DV <sub>DD</sub>                  | V <sub>SS</sub>             |
| R | DV <sub>DD</sub>           | EM_D[23]<br>/UHPI_<br>HA[7]      | $\overline{\text{EM\_CAS}}$ | EM $\overline{\text{WE}}$ _DQM[0] | EM_D[6]                          | EM_D[4]                          | EM_D[2]                          | EM_D[1]                       | EM_D[15]                          | EM_D[13]                     | EM_D[12]                    | EM_D[10]         | EM_D[8]                           | EM_CLK                 | EM $\overline{\text{WE}}$ _DQM[3] | DV <sub>DD</sub>            |
| P | TCK                        | UHPI_<br>HD[24]                  | EM_D[21]<br>/UHPI_<br>HA[5] | EM_D[20]<br>/UHPI_<br>HA[4]       | EM_D[19]<br>/UHPI_<br>HA[3]      | EM_D[17]<br>/UHPI_<br>HA[1]      | EM_D[31]<br>/UHPI_<br>HA[15]     | DV <sub>DD</sub>              | EM_D[28]<br>/UHPI_<br>HA[12]      | EM_D[26]<br>/UHPI_<br>HA[10] | EM_D[24]<br>/UHPI_<br>HA[8] | EM_A[12]         | EM $\overline{\text{WE}}$ _DQM[2] | UHPI_<br>HD[7]         | EM_A[11]                          | EM_A[9]                     |
| N | $\overline{\text{EMU}}[1]$ | UHPI_<br>HD[25]                  | UHPI_<br>HD[26]             | EM_D[22]<br>/UHPI_<br>HA[6]       | DV <sub>DD</sub>                 | EM_D[18]<br>/UHPI_<br>HA[2]      | EM_D[16]<br>/UHPI_<br>HA[0]      | EM_D[30]<br>/UHPI_<br>HA[14]  | EM_D[29]<br>/UHPI_<br>HA[13]      | EM_D[27]<br>/UHPI_<br>HA[11] | EM_D[25]<br>/UHPI_<br>HA[9] | DV <sub>DD</sub> | UHPI_<br>HD[5]                    | UHPI_<br>HD[6]         | EM_A[8]                           | EM_A[7]                     |
| M | $\overline{\text{EMU}}[0]$ | TDO                              | UHPI_<br>HD[27]             | DV <sub>DD</sub>                  | V <sub>SS</sub>                  | CV <sub>DD</sub>                 | CV <sub>DD</sub>                 | CV <sub>DD</sub>              | CV <sub>DD</sub>                  | CV <sub>DD</sub>             | CV <sub>DD</sub>            | V <sub>SS</sub>  | DV <sub>DD</sub>                  | UHPI_<br>HD[2]         | EM_A[6]                           | EM_A[5]                     |
| L | TDI                        | UHPI_<br>HD[30]                  | UHPI_<br>HD[28]             | UHPI_<br>HD[29]                   | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | V <sub>SS</sub>  | UHPI_<br>HD[3]                    | UHPI_<br>HD[4]         | EM_A[4]                           | EM_A[3]                     |
| K | V <sub>SS</sub>            | PLLHV                            | TMS                         | $\overline{\text{TRST}}$          | CV <sub>DD</sub>                 | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | CV <sub>DD</sub> | UHPI_<br>HD[0]                    | UHPI_<br>HD[1]         | EM_A[2]                           | V <sub>SS</sub>             |
| J | OSCV <sub>SS</sub>         | OSCIN                            | OSCOU                       | OSCV <sub>DD</sub>                | CV <sub>DD</sub>                 | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | CV <sub>DD</sub> | UHPI_<br>HD[15]                   | DV <sub>DD</sub>       | EM_A[1]                           | EM_A[0]                     |
| H | UHPI_<br>HD[16]<br>/HHWIL  | CLKIN                            | V <sub>SS</sub>             | UHPI_<br>HD[31]                   | CV <sub>DD</sub>                 | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | CV <sub>DD</sub> | UHPI_<br>HD[14]                   | UHPI_<br>HD[13]        | EM_A[10]                          | EM_BA[1]                    |
| G | V <sub>SS</sub>            | $\overline{\text{RESET}}$        | UHPI_<br>HD[17]             | UHPI_<br>HD[18]                   | CV <sub>DD</sub>                 | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | CV <sub>DD</sub> | UHPI_<br>HD[12]                   | UHPI_<br>HD[11]        | EM_BA[0]                          | V <sub>SS</sub>             |
| F | AFSR1                      | AFSX1                            | UHPI_<br>HD[19]             | UHPI_<br>HD[20]                   | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>                  | V <sub>SS</sub>               | V <sub>SS</sub>                   | V <sub>SS</sub>              | V <sub>SS</sub>             | V <sub>SS</sub>  | UHPI_<br>HD[10]                   | UHPI_<br>HD[9]         | $\overline{\text{EM\_CS}}[0]$     | $\overline{\text{EM\_RAS}}$ |
| E | ACLKR1                     | ACLKX1                           | UHPI_<br>HD[21]             | DV <sub>DD</sub>                  | V <sub>SS</sub>                  | CV <sub>DD</sub>                 | CV <sub>DD</sub>                 | CV <sub>DD</sub>              | CV <sub>DD</sub>                  | CV <sub>DD</sub>             | CV <sub>DD</sub>            | V <sub>SS</sub>  | DV <sub>DD</sub>                  | UHPI_<br>HD[8]         | $\overline{\text{EM\_CS}}[2]$     | EM $\overline{\text{RW}}$   |
| D | AHCLKX1                    | AMUTE1                           | UHPI_<br>HD[22]             | DV <sub>DD</sub>                  | DV <sub>DD</sub>                 | $\overline{\text{UHPI\_HRDY}}$   | $\overline{\text{UHPI\_HDS}}[1]$ | UHPI_<br>HRW                  | UHPI_<br>HCNTL[0]                 | AMUTE2/<br>HINT              | ACLKX2                      | DV <sub>DD</sub> | DV <sub>DD</sub>                  | EM_WAIT                | $\overline{\text{EM\_OE}}$        | SPI0_ENA<br>/I2C1_SDA       |
| C | AMUTE0                     | AHCLKX0<br>/AHCLKX2              | UHPI_<br>HD[23]             | $\overline{\text{UHPI\_HBE}}[2]$  | $\overline{\text{UHPI\_HBE}}[1]$ | $\overline{\text{UHPI\_HBE}}[0]$ | $\overline{\text{UHPI\_HDS}}[2]$ | $\overline{\text{UHPI\_HCS}}$ | $\overline{\text{UHPI\_HAS}}$     | UHPI_<br>HCNTL[1]            | AFSX2                       | AFSR2            | ACLKR2                            | AHCLKR2                | SPI0_SCS<br>/I2C1_SCL             | SPI0_CLK<br>/I2C0_SCL       |
| B | DV <sub>DD</sub>           | $\overline{\text{UHPI\_HBE}}[3]$ | AHCLKR0<br>/AHCLKR1         | AFSR0                             | AXR0[15]<br>/AXR2[0]             | AXR0[13]<br>/AXR1[0]             | AXR0[12]<br>/AXR1[1]             | AXR0[10]<br>/AXR1[3]          | AXR0[8]<br>/AXR1[5]<br>/SPI1_SOMI | AXR0[7]<br>/SPI1_CLK         | AXR0[5]<br>/SPI1_SCS        | AXR0[3]          | AXR0[1]                           | SPI0_SOMI<br>/I2C0_SDA | SPI0_SIMO                         | DV <sub>DD</sub>            |
| A | V <sub>SS</sub>            | DV <sub>DD</sub>                 | AFSX0                       | ACLKX0                            | ACLKR0                           | AXR0[14]<br>/AXR2[1]             | V <sub>SS</sub>                  | AXR0[11]<br>/AXR1[2]          | AXR0[9]<br>/AXR1[4]<br>/SPI1_SIMO | V <sub>SS</sub>              | AXR0[6]<br>/SPI1_ENA        | AXR0[4]          | AXR0[2]                           | AXR0[0]                | DV <sub>DD</sub>                  | V <sub>SS</sub>             |
|   | 1                          | 2                                | 3                           | 4                                 | 5                                | 6                                | 7                                | 8                             | 9                                 | 10                           | 11                          | 12               | 13                                | 14                     | 15                                | 16                          |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -17

### Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

#### PIN CONFIGURATION(2/2)



#### TERMINAL DESCRIPTION(1/5)

| SIGNAL NAME                     | BALL NO.                                                                                                                                                                                                                                                 | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|--------------------------------------------------------------|
| <b>Clocks</b>                   |                                                                                                                                                                                                                                                          |                     |                     |                     |                                                              |
| OSCIN                           | J2                                                                                                                                                                                                                                                       | I                   | -                   | N                   | 1.2-V Oscillator Input                                       |
| OSCOUT                          | J3                                                                                                                                                                                                                                                       | O                   | -                   | N                   | 1.2-V Oscillator Output                                      |
| OSCV <sub>DD</sub>              | J4                                                                                                                                                                                                                                                       | PWR                 | -                   | N                   | Oscillator 1.2-V V <sub>DD</sub> tap point (for filter only) |
| OSCV <sub>SS</sub>              | J1                                                                                                                                                                                                                                                       | PWR                 | -                   | N                   | Oscillator V <sub>SS</sub> tap point (for filter only)       |
| CLKIN                           | H2                                                                                                                                                                                                                                                       | I                   | -                   | N                   | Alternate clock input (3.3-V LVCMOS Input)                   |
| PLLHV                           | K2                                                                                                                                                                                                                                                       | PWR                 | -                   | N                   | PLL 3.3-V Supply Input (requires external filter)            |
| <b>Device Reset</b>             |                                                                                                                                                                                                                                                          |                     |                     |                     |                                                              |
| RESET                           | G2                                                                                                                                                                                                                                                       | I                   | -                   | N                   | Device reset pin                                             |
| <b>Emulation/JTAG Port</b>      |                                                                                                                                                                                                                                                          |                     |                     |                     |                                                              |
| TCK                             | P1                                                                                                                                                                                                                                                       | I                   | IPU                 | N                   | Test Clock                                                   |
| TMS                             | K3                                                                                                                                                                                                                                                       | I                   | IPU                 | N                   | Test Mode Select                                             |
| TDI                             | L1                                                                                                                                                                                                                                                       | I                   | IPU                 | N                   | Test Data In                                                 |
| TDO                             | M2                                                                                                                                                                                                                                                       | OZ                  | IPU                 | N                   | Test Data Out                                                |
| TRST                            | K4                                                                                                                                                                                                                                                       | I                   | IPD                 | N                   | Test Reset                                                   |
| EMU[0]                          | M1                                                                                                                                                                                                                                                       | IO                  | IPU                 | N                   | Emulation Pin 0                                              |
| EMU[1]                          | N1                                                                                                                                                                                                                                                       | IO                  | IPU                 | N                   | Emulation Pin 1                                              |
| <b>Power Pins</b>               |                                                                                                                                                                                                                                                          |                     |                     |                     |                                                              |
| Core Supply (CV <sub>DD</sub> ) | E6, E7, E8, E9, E10, E11, G5, G12, H5, H12, J5, J12, K5, K12, M6, M7, M8, M9, M10, M11                                                                                                                                                                   |                     |                     |                     |                                                              |
| IO Supply (DV <sub>DD</sub> )   | A2, A15, B1, B16, D4, D5, D12, D13, E4, E13, J14, M4, M13, N5, N12, P8, R1, R16, T2, T15                                                                                                                                                                 |                     |                     |                     |                                                              |
| Ground (V <sub>SS</sub> )       | A1, A7, A10, A16, E5, E12, F5, F6, F7, F8, F9, F10, F11, F12, G1, G6, G7, G8, G9, G10, G11, G16, H3, H6, H7, H8, H9, H10, H11, J6, J7, J8, J9, J10, J11, K1, K6, K7, K8, K9, K10, K11, K16, L5, L6, L7, L8, L9, L10, L11, L12, M5, M12, T1, T7, T10, T16 |                     |                     |                     |                                                              |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -18

## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### TERMINAL DESCRIPTION(2/5)

| SIGNAL NAME                                                 | BALL NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                         |
|-------------------------------------------------------------|----------|---------------------|---------------------|---------------------|---------------------------------------------------------------------|
| <b>External Memory Interface (EMIF) Address and Control</b> |          |                     |                     |                     |                                                                     |
| EM_A[0]                                                     | J16      | O                   | -                   | N                   | EMIF Address Bus                                                    |
| EM_A[1]                                                     | J15      | O                   | -                   | N                   |                                                                     |
| EM_A[2]                                                     | K15      | O                   | -                   | N                   |                                                                     |
| EM_A[3]                                                     | L16      | O                   | -                   | N                   |                                                                     |
| EM_A[4]                                                     | L15      | O                   | -                   | N                   |                                                                     |
| EM_A[5]                                                     | M16      | O                   | -                   | N                   |                                                                     |
| EM_A[6]                                                     | M15      | O                   | -                   | N                   |                                                                     |
| EM_A[7]                                                     | N16      | O                   | -                   | N                   |                                                                     |
| EM_A[8]                                                     | N15      | O                   | -                   | N                   |                                                                     |
| EM_A[9]                                                     | P16      | O                   | -                   | N                   |                                                                     |
| EM_A[10]                                                    | H15      | O                   | -                   | N                   |                                                                     |
| EM_A[11]                                                    | P15      | O                   | -                   | N                   |                                                                     |
| EM_A[12]                                                    | P12      | O                   | IPD                 | N                   |                                                                     |
| EM_BA[0]                                                    | G15      | O                   | -                   | N                   | SDRAM Bank Address and Asynchronous Memory Low-Order Address        |
| EM_BA[1]                                                    | H16      | O                   | -                   | N                   |                                                                     |
| EM_CS[0]                                                    | F15      | O                   | -                   | N                   | SDRAM Chip Select                                                   |
| EM_CS[2]                                                    | E15      | O                   | -                   | N                   | Asynchronous Memory Chip Select                                     |
| EM_CAS                                                      | R3       | O                   | -                   | N                   | SDRAM Column Address Strobe                                         |
| EM_RAS                                                      | F16      | O                   | -                   | N                   | SDRAM Row Address Strobe                                            |
| EM_WE                                                       | T3       | O                   | -                   | N                   | SDRAM Write Enable                                                  |
| EM_CKE                                                      | T14      | O                   | -                   | N                   | SDRAM Clock Enable                                                  |
| EM_CLK                                                      | R14      | O                   | -                   | N                   | SDRAM Clock                                                         |
| EM_WE_DQM[0]                                                | R4       | O                   | -                   | N                   | Write Enable or Byte Enable for EM_D[7:0]                           |
| EM_WE_DQM[1]                                                | T13      | O                   | -                   | N                   | Write Enable or Byte Enable for EM_D[15:8]                          |
| EM_WE_DQM[2]                                                | P13      | O                   | IPU                 | N                   | Write Enable or Byte Enable for EM_D[23:16]                         |
| EM_WE_DQM[3]                                                | R15      | O                   | IPU                 | N                   | Write Enable or Byte Enable for EM_D[31:24]                         |
| EM_OE                                                       | D15      | O                   | -                   | N                   | SDRAM Output Enable                                                 |
| EM_RW                                                       | E16      | O                   | -                   | N                   | Asynchronous Memory Read/not Write                                  |
| EM_WAIT                                                     | D14      | I                   | IPU                 | N                   | Asynchronous Wait Input (Programmable Polarity) or Interrupt (NAND) |

- (1) TYPE column refers to pin direction in functional mode. If a pin has more than one function with different directions, the functions are separated with a slash (/).
- (2) PULL column:  
IPD = Internal Pulldown resistor  
IPU = Internal Pullup resistor
- (3) If the GPIO column is 'Y', then in GPIO mode, the pin is configurable as an IO unless otherwise marked.



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -19

## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### TERMINAL DESCRIPTION(3/5)

| SIGNAL NAME                                                                                                | BALL NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                     |
|------------------------------------------------------------------------------------------------------------|----------|---------------------|---------------------|---------------------|-----------------------------------------------------------------|
| <b>External Memory Interface (EMIF) Data Bus / Universal Host-Port Interface (UHPI) Address Bus Option</b> |          |                     |                     |                     |                                                                 |
| EM_D[0]                                                                                                    | T8       | IO                  | -                   | N                   | EMIF Data Bus [Lower 16 Bits]                                   |
| EM_D[1]                                                                                                    | R8       | IO                  | -                   | N                   |                                                                 |
| EM_D[2]                                                                                                    | R7       | IO                  | -                   | N                   |                                                                 |
| EM_D[3]                                                                                                    | T6       | IO                  | -                   | N                   |                                                                 |
| EM_D[4]                                                                                                    | R6       | IO                  | -                   | N                   |                                                                 |
| EM_D[5]                                                                                                    | T5       | IO                  | -                   | N                   |                                                                 |
| EM_D[6]                                                                                                    | R5       | IO                  | -                   | N                   |                                                                 |
| EM_D[7]                                                                                                    | T4       | IO                  | -                   | N                   |                                                                 |
| EM_D[8]                                                                                                    | R13      | IO                  | -                   | N                   |                                                                 |
| EM_D[9]                                                                                                    | T12      | IO                  | -                   | N                   |                                                                 |
| EM_D[10]                                                                                                   | R12      | IO                  | -                   | N                   |                                                                 |
| EM_D[11]                                                                                                   | T11      | IO                  | -                   | N                   |                                                                 |
| EM_D[12]                                                                                                   | R11      | IO                  | -                   | N                   |                                                                 |
| EM_D[13]                                                                                                   | R10      | IO                  | -                   | N                   |                                                                 |
| EM_D[14]                                                                                                   | T9       | IO                  | -                   | N                   |                                                                 |
| EM_D[15]                                                                                                   | R9       | IO                  | -                   | N                   |                                                                 |
| EM_D[16]/UHPI_HA[0]                                                                                        | N7       | IO/I                | IPD                 | N                   | EMIF Data Bus [Upper 16 Bits (IO)] or<br>UHPI Address Input (I) |
| EM_D[17]/UHPI_HA[1]                                                                                        | P6       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[18]/UHPI_HA[2]                                                                                        | N6       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[19]/UHPI_HA[3]                                                                                        | P5       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[20]/UHPI_HA[4]                                                                                        | P4       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[21]/UHPI_HA[5]                                                                                        | P3       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[22]/UHPI_HA[6]                                                                                        | N4       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[23]/UHPI_HA[7]                                                                                        | R2       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[24]/UHPI_HA[8]                                                                                        | P11      | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[25]/UHPI_HA[9]                                                                                        | N11      | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[26]/UHPI_HA[10]                                                                                       | P10      | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[27]/UHPI_HA[11]                                                                                       | N10      | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[28]/UHPI_HA[12]                                                                                       | P9       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[29]/UHPI_HA[13]                                                                                       | N9       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[30]/UHPI_HA[14]                                                                                       | N8       | IO/I                | IPD                 | N                   |                                                                 |
| EM_D[31]/UHPI_HA[15]                                                                                       | P7       | IO/I                | IPD                 | N                   |                                                                 |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -20

## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### TERMINAL DESCRIPTION(4/5)

| SIGNAL NAME                                           | BALL NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------|----------|---------------------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Universal Host-Port Interface (UHPI) Data and Control |          |                     |                     |                     |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[0]                                            | K13      | IO                  | IPD                 | Y                   | UHPI Data Bus [Lower 16 Bits]                                                                                                                                                                                                                                                                                                                                            |
| UHPI_HD[1]                                            | K14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[2]                                            | M14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[3]                                            | L13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[4]                                            | L14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[5]                                            | N13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[6]                                            | N14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[7]                                            | P14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[8]                                            | E14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[9]                                            | F14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[10]                                           | F13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[11]                                           | G14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[12]                                           | G13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[13]                                           | H14      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[14]                                           | H13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[15]                                           | J13      | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[16]/HHWIL                                     | H1       | IO/I                | IPD                 | Y                   | UHPI Data Bus [Upper 16 Bits (IO)] in the following modes:<br>• Fullword Multiplexed Address and Data<br>• Fullword Non-Multiplexed<br><br>UHPI_HHWIL (I) on pin UHPI_HD[16]/HHWIL and GPIO on other pins in the following mode:<br>• Half-word Multiplexed Address and Data<br>In this mode, UHPI_HHWIL indicates whether the high or low half-word is being addressed. |
| UHPI_HD[17]                                           | G3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[18]                                           | G4       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[19]                                           | F3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[20]                                           | F4       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[21]                                           | E3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[22]                                           | D3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[23]                                           | C3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[24]                                           | P2       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[25]                                           | N2       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[26]                                           | N3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[27]                                           | M3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[28]                                           | L3       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[29]                                           | L4       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[30]                                           | L2       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HD[31]                                           | H4       | IO                  | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| Universal Host-Port Interface (UHPI) Control          |          |                     |                     |                     |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HBE[0]                                           | C6       | I                   | IPD                 | Y                   | UHPI Byte Enable for UHPI_HD[7:0]                                                                                                                                                                                                                                                                                                                                        |
| UHPI_HBE[1]                                           | C5       | I                   | IPD                 | Y                   | UHPI Byte Enable for UHPI_HD[15:8]                                                                                                                                                                                                                                                                                                                                       |
| UHPI_HBE[2]                                           | C4       | I                   | IPD                 | Y                   | UHPI Byte Enable for UHPI_HD[23:16]                                                                                                                                                                                                                                                                                                                                      |
| UHPI_HBE[3]                                           | B2       | I                   | IPD                 | Y                   | UHPI Byte Enable for UHPI_HD[31:24]                                                                                                                                                                                                                                                                                                                                      |
| UHPI_HCNTL[0]                                         | D9       | I                   | IPD                 | Y                   | UHPI Control Inputs Select Access Mode                                                                                                                                                                                                                                                                                                                                   |
| UHPI_HCNTL[1]                                         | C10      | I                   | IPD                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HAS                                              | C9       | I                   | IPD                 | Y                   | UHPI Host Address Strobe for Hosts with Multiplexed Address/Data bus                                                                                                                                                                                                                                                                                                     |
| UHPI_HRW                                              | D8       | I                   | IPD                 | Y                   | UHPI Read/not Write Input                                                                                                                                                                                                                                                                                                                                                |
| UHPI_HDS[1]                                           | D7       | I                   | IPU                 | Y                   | UHPI Select Signals which create the internal HSTROBE active when:                                                                                                                                                                                                                                                                                                       |
| UHPI_HDS[2]                                           | C7       | I                   | IPU                 | Y                   |                                                                                                                                                                                                                                                                                                                                                                          |
| UHPI_HCS                                              | C8       | I                   | IPU                 | Y                   | (UHPI_HCS == '0') & (UHPI_HDS[1] != UHPI_HDS[2])                                                                                                                                                                                                                                                                                                                         |
| UHPI_HRDY                                             | D6       | O                   | IPD                 | Y                   | UHPI Ready Output                                                                                                                                                                                                                                                                                                                                                        |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -21

## Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

### TERMINAL DESCRIPTION(5/5)

| SIGNAL NAME                                          | BALL NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                                       |
|------------------------------------------------------|----------|---------------------|---------------------|---------------------|-----------------------------------------------------------------------------------|
| <b>McASP0, McASP1, McASP2, and SPI1 Serial Ports</b> |          |                     |                     |                     |                                                                                   |
| AHCLKR0/AHCLKR1                                      | B3       | IO                  | -                   | Y                   | McASP0 and McASP1 Receive Master Clock                                            |
| ACLKR0                                               | A5       | IO                  | -                   | Y                   | McASP0 Receive Bit Clock                                                          |
| AFSR0                                                | B4       | IO                  | -                   | Y                   | McASP0 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX0/AHCLKX2                                      | C2       | IO                  | -                   | Y                   | McASP0 and McASP2 Transmit Master Clock                                           |
| ACLKX0                                               | A4       | IO                  | -                   | Y                   | McASP0 Transmit Bit Clock                                                         |
| AFSX0                                                | A3       | IO                  | -                   | Y                   | McASP0 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE0                                               | C1       | O                   | -                   | Y                   | McASP0 MUTE Output                                                                |
| AXR0[0]                                              | A14      | IO                  | -                   | Y                   | McASP0 Serial Data 0                                                              |
| AXR0[1]                                              | B13      | IO                  | -                   | Y                   | McASP0 Serial Data 1                                                              |
| AXR0[2]                                              | A13      | IO                  | -                   | Y                   | McASP0 Serial Data 2                                                              |
| AXR0[3]                                              | B12      | IO                  | -                   | Y                   | McASP0 Serial Data 3                                                              |
| AXR0[4]                                              | A12      | IO                  | -                   | Y                   | McASP0 Serial Data 4                                                              |
| AXR0[5]/SPI1_SCS                                     | B11      | IO                  | -                   | Y                   | McASP0 Serial Data 5 or SPI1 Slave Chip Select                                    |
| AXR0[6]/SPI1_ENA                                     | A11      | IO                  | -                   | Y                   | McASP0 Serial Data 6 or SPI1 Enable (Ready)                                       |
| AXR0[7]/SPI1_CLK                                     | B10      | IO                  | -                   | Y                   | McASP0 Serial Data 7 or SPI1 Serial Clock                                         |
| AXR0[8]/AXR1[5]/SPI1_SOMI                            | B9       | IO                  | -                   | Y                   | McASP0 Serial Data 8 or McASP1 Serial Data 5 or SPI1 Data Pin Slave Out Master In |
| AXR0[9]/AXR1[4]/SPI1_SIMO                            | A9       | IO                  | -                   | Y                   | McASP0 Serial Data 9 or McASP1 Serial Data 4 or SPI1 Data Pin Slave In Master Out |
| AXR0[10]/AXR1[3]                                     | B8       | IO                  | -                   | Y                   | McASP0 Serial Data 10 or McASP1 Serial Data 3                                     |
| AXR0[11]/AXR1[2]                                     | A8       | IO                  | -                   | Y                   | McASP0 Serial Data 11 or McASP1 Serial Data 2                                     |
| AXR0[12]/AXR1[1]                                     | B7       | IO                  | -                   | Y                   | McASP0 Serial Data 12 or McASP1 Serial Data 1                                     |
| AXR0[13]/AXR1[0]                                     | B6       | IO                  | -                   | Y                   | McASP0 Serial Data 13 or McASP1 Serial Data 0                                     |
| AXR0[14]/AXR2[1]                                     | A6       | IO                  | -                   | Y                   | McASP0 Serial Data 14 or McASP2 Serial Data 1                                     |
| AXR0[15]/AXR2[0]                                     | B5       | IO                  | -                   | Y                   | McASP0 Serial Data 15 or McASP2 Serial Data 0                                     |
| ACLKR1                                               | E1       | IO                  | -                   | Y                   | McASP1 Receive Bit Clock                                                          |
| AFSR1                                                | F1       | IO                  | -                   | Y                   | McASP1 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX1                                              | D1       | IO                  | -                   | Y                   | McASP1 Transmit Master Clock                                                      |
| ACLKX1                                               | E2       | IO                  | -                   | Y                   | McASP1 Transmit Bit Clock                                                         |
| AFSX1                                                | F2       | IO                  | -                   | Y                   | McASP1 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE1                                               | D2       | O                   | -                   | Y                   | McASP1 MUTE Output                                                                |
| AHCLKR2                                              | C14      | IO                  | IPD                 | Y                   | McASP2 Receive Master Clock                                                       |
| ACLKR2                                               | C13      | IO                  | IPD                 | Y                   | McASP2 Receive Bit Clock                                                          |
| AFSR2                                                | C12      | IO                  | IPD                 | Y                   | McASP2 Receive Frame Sync (L/R Clock)                                             |
| ACLKX2                                               | D11      | IO                  | IPD                 | Y                   | McASP2 Transmit Bit Clock                                                         |
| AFSX2                                                | C11      | IO                  | IPD                 | Y                   | McASP2 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE2/HINT                                          | D10      | O                   | IPD                 | Y                   | McASP2 MUTE Output or UHPI Host Interrupt                                         |
| <b>SPI0, I2C0, and I2C1 Serial Port Pins</b>         |          |                     |                     |                     |                                                                                   |
| SPI0_SOMI/I2C0_SDA                                   | B14      | IO                  | -                   | Y                   | SPI0 Data Pin Slave Out Master In or I2C0 Serial Data                             |
| SPI0_SIMO                                            | B15      | IO                  | -                   | Y                   | SPI0 Data Pin Slave In Master Out                                                 |
| SPI0_CLK/I2C0_SCL                                    | C16      | IO                  | -                   | Y                   | SPI0 Serial Clock or I2C0 Serial Clock                                            |
| SPI0_SCS/I2C1_SCL                                    | C15      | IO                  | -                   | Y                   | SPI0 Slave Chip Select or I2C1 Serial Clock                                       |
| SPI0_ENA/I2C1_SDA                                    | D16      | IO                  | -                   | Y                   | SPI0 Enable (Ready) or I2C1 Serial Data                                           |

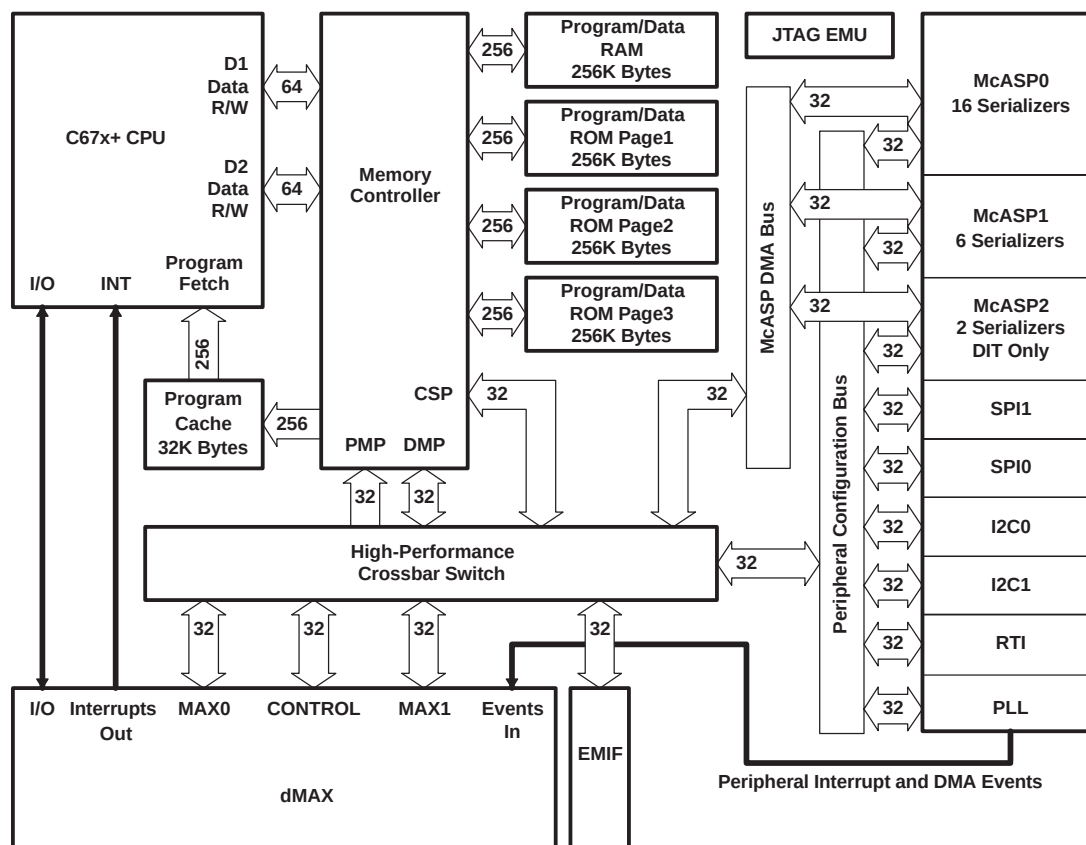


## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -22

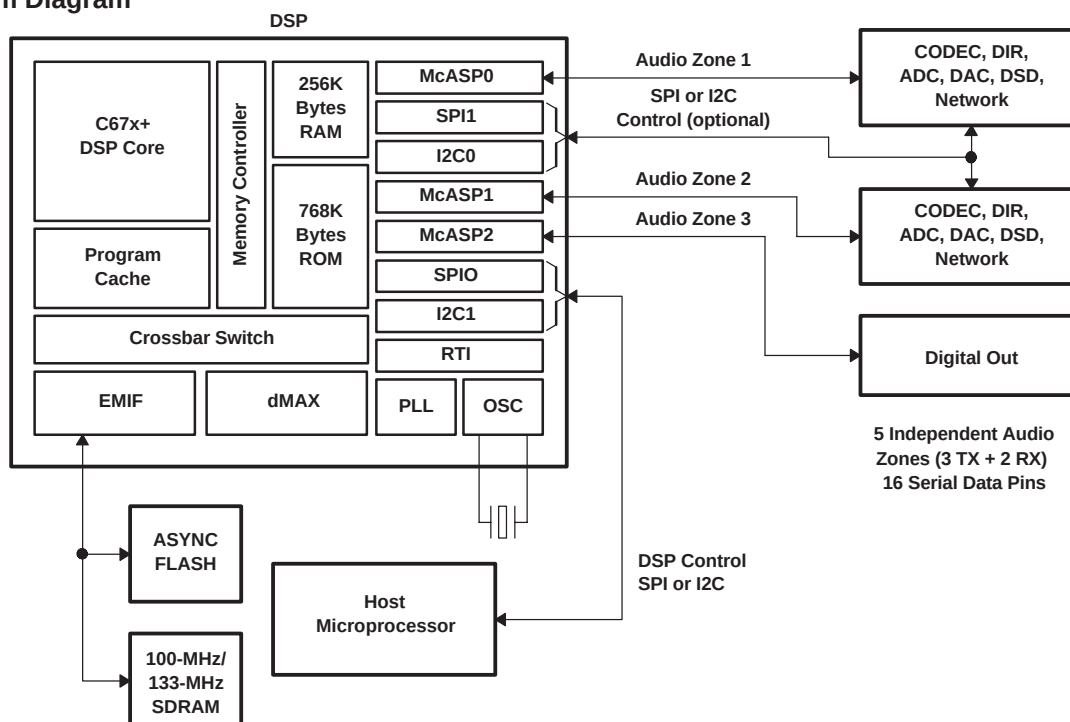
### Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

### BLOCK DIAGRAM

## Device Block Diagram



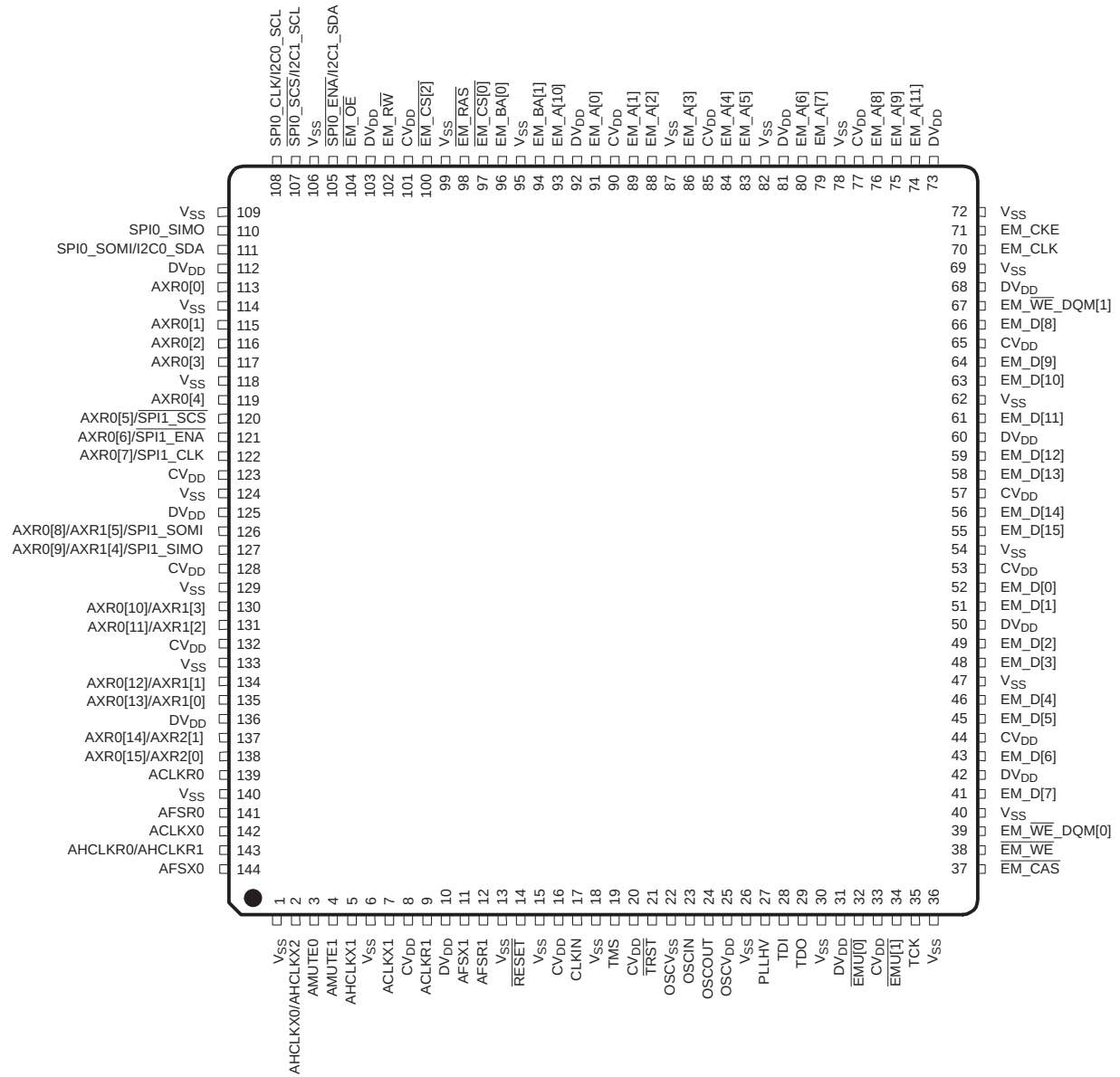
## System Diagram



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -23

## Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

## PIN CONFIGURATION



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -24

## Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

### TERMINAL DESCRIPTION(1/3)

| SIGNAL NAME                                                 | PIN NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                  |
|-------------------------------------------------------------|---------|---------------------|---------------------|---------------------|--------------------------------------------------------------|
| <b>External Memory Interface (EMIF) Address and Control</b> |         |                     |                     |                     |                                                              |
| EM_A[0]                                                     | 91      | O                   | -                   | N                   | EMIF Address Bus                                             |
| EM_A[1]                                                     | 89      | O                   | -                   | N                   |                                                              |
| EM_A[2]                                                     | 88      | O                   | -                   | N                   |                                                              |
| EM_A[3]                                                     | 86      | O                   | -                   | N                   |                                                              |
| EM_A[4]                                                     | 84      | O                   | -                   | N                   |                                                              |
| EM_A[5]                                                     | 83      | O                   | -                   | N                   |                                                              |
| EM_A[6]                                                     | 80      | O                   | -                   | N                   |                                                              |
| EM_A[7]                                                     | 79      | O                   | -                   | N                   |                                                              |
| EM_A[8]                                                     | 76      | O                   | -                   | N                   |                                                              |
| EM_A[9]                                                     | 75      | O                   | -                   | N                   |                                                              |
| EM_A[10]                                                    | 93      | O                   | -                   | N                   |                                                              |
| EM_A[11]                                                    | 74      | O                   | -                   | N                   |                                                              |
| EM_BA[0]                                                    | 96      | O                   | -                   | N                   | SDRAM Bank Address and Asynchronous Memory Low-Order Address |
| EM_BA[1]                                                    | 94      | O                   | -                   | N                   |                                                              |
| EM_CS[0]                                                    | 97      | O                   | -                   | N                   | SDRAM Chip Select                                            |
| EM_CS[2]                                                    | 100     | O                   | -                   | N                   | Asynchronous Memory Chip Select                              |
| EM_CAS                                                      | 37      | O                   | -                   | N                   | SDRAM Column Address Strobe                                  |
| EM_RAS                                                      | 98      | O                   | -                   | N                   | SDRAM Row Address Strobe                                     |
| EM_WE                                                       | 38      | O                   | -                   | N                   | SDRAM Write Enable                                           |
| EM_CKE                                                      | 71      | O                   | -                   | N                   | SDRAM Clock Enable                                           |
| EM_CLK                                                      | 70      | O                   | -                   | N                   | SDRAM Clock                                                  |
| EM_WE_DQM[0]                                                | 39      | O                   | -                   | N                   | Write Enable or Byte Enable for EM_D[7:0]                    |
| EM_WE_DQM[1]                                                | 67      | O                   | -                   | N                   | Write Enable or Byte Enable for EM_D[15:8]                   |
| EM_OE                                                       | 104     | O                   | -                   | N                   | SDRAM Output Enable                                          |
| EM_RW                                                       | 102     | O                   | -                   | N                   | Asynchronous Memory Read/not Write                           |

(1) TYPE column refers to pin direction in functional mode. If a pin has more than one function with different directions, the functions are separated with a slash (/).

(2) PULL column:  
IPD = Internal Pulldown resistor  
IPU = Internal Pullup resistor

(3) If the GPIO column is 'Y', then in GPIO mode, the pin is configurable as an IO unless otherwise marked.

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -25

## Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

### TERMINAL DESCRIPTION(2/3)

| SIGNAL NAME                                          | PIN NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                                       |
|------------------------------------------------------|---------|---------------------|---------------------|---------------------|-----------------------------------------------------------------------------------|
| <b>McASP0, McASP1, McASP2, and SPI1 Serial Ports</b> |         |                     |                     |                     |                                                                                   |
| AHCLKR0/AHCLKR1                                      | 143     | IO                  | -                   | Y                   | McASP0 and McASP1 Receive Master Clock                                            |
| ACLKR0                                               | 139     | IO                  | -                   | Y                   | McASP0 Receive Bit Clock                                                          |
| AFSR0                                                | 141     | IO                  | -                   | Y                   | McASP0 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX0/AHCLKX2                                      | 2       | IO                  | -                   | Y                   | McASP0 and McASP2 Transmit Master Clock                                           |
| ACLKX0                                               | 142     | IO                  | -                   | Y                   | McASP0 Transmit Bit Clock                                                         |
| AFSX0                                                | 144     | IO                  | -                   | Y                   | McASP0 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE0                                               | 3       | O                   | -                   | Y                   | McASP0 MUTE Output                                                                |
| AXR0[0]                                              | 113     | IO                  | -                   | Y                   | McASP0 Serial Data 0                                                              |
| AXR0[1]                                              | 115     | IO                  | -                   | Y                   | McASP0 Serial Data 1                                                              |
| AXR0[2]                                              | 116     | IO                  | -                   | Y                   | McASP0 Serial Data 2                                                              |
| AXR0[3]                                              | 117     | IO                  | -                   | Y                   | McASP0 Serial Data 3                                                              |
| AXR0[4]                                              | 119     | IO                  | -                   | Y                   | McASP0 Serial Data 4                                                              |
| AXR0[5]/SPI1_SC $\overline{S}$                       | 120     | IO                  | -                   | Y                   | McASP0 Serial Data 5 or SPI1 Slave Chip Select                                    |
| AXR0[6]/SPI1_EN $\overline{A}$                       | 121     | IO                  | -                   | Y                   | McASP0 Serial Data 6 or SPI1 Enable (Ready)                                       |
| AXR0[7]/SPI1_CLK                                     | 122     | IO                  | -                   | Y                   | McASP0 Serial Data 7 or SPI1 Serial Clock                                         |
| AXR0[8]/AXR1[5]/SPI1_SOMI                            | 126     | IO                  | -                   | Y                   | McASP0 Serial Data 8 or McASP1 Serial Data 5 or SPI1 Data Pin Slave Out Master In |
| AXR0[9]/AXR1[4]/SPI1_SIMO                            | 127     | IO                  | -                   | Y                   | McASP0 Serial Data 9 or McASP1 Serial Data 4 or SPI1 Data Pin Slave In Master Out |
| AXR0[10]/AXR1[3]                                     | 130     | IO                  | -                   | Y                   | McASP0 Serial Data 10 or McASP1 Serial Data 3                                     |
| AXR0[11]/AXR1[2]                                     | 131     | IO                  | -                   | Y                   | McASP0 Serial Data 11 or McASP1 Serial Data 2                                     |
| AXR0[12]/AXR1[1]                                     | 134     | IO                  | -                   | Y                   | McASP0 Serial Data 12 or McASP1 Serial Data 1                                     |
| AXR0[13]/AXR1[0]                                     | 135     | IO                  | -                   | Y                   | McASP0 Serial Data 13 or McASP1 Serial Data 0                                     |
| AXR0[14]/AXR2[1]                                     | 137     | IO                  | -                   | Y                   | McASP0 Serial Data 14 or McASP2 Serial Data 1                                     |
| AXR0[15]/AXR2[0]                                     | 138     | IO                  | -                   | Y                   | McASP0 Serial Data 15 or McASP2 Serial Data 0                                     |
| ACLKR1                                               | 9       | IO                  | -                   | Y                   | McASP1 Receive Bit Clock                                                          |
| AFSR1                                                | 12      | IO                  | -                   | Y                   | McASP1 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX1                                              | 5       | IO                  | -                   | Y                   | McASP1 Transmit Master Clock                                                      |
| ACLKX1                                               | 7       | IO                  | -                   | Y                   | McASP1 Transmit Bit Clock                                                         |
| AFSX1                                                | 11      | IO                  | -                   | Y                   | McASP1 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE1                                               | 4       | O                   | -                   | Y                   | McASP1 MUTE Output                                                                |
| <b>SPI0, I2C0, and I2C1 Serial Port Pins</b>         |         |                     |                     |                     |                                                                                   |
| SPI0_SOMI/I2C0_SDA                                   | 111     | IO                  | -                   | Y                   | SPI0 Data Pin Slave Out Master In or I2C0 Serial Data                             |
| SPI0_SIMO                                            | 110     | IO                  | -                   | Y                   | SPI0 Data Pin Slave In Master Out                                                 |
| SPI0_CLK/I2C0_SCL                                    | 108     | IO                  | -                   | Y                   | SPI0 Serial Clock or I2C0 Serial Clock                                            |
| SPI0_SC $\overline{S}$ /I2C1_SCL                     | 107     | IO                  | -                   | Y                   | SPI0 Slave Chip Select or I2C1 Serial Clock                                       |
| SPI0_EN $\overline{A}$ /I2C1_SDA                     | 105     | IO                  | -                   | Y                   | SPI0 Enable (Ready) or I2C1 Serial Data                                           |



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -26

## Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

### TERMINAL DESCRIPTION(3/3)

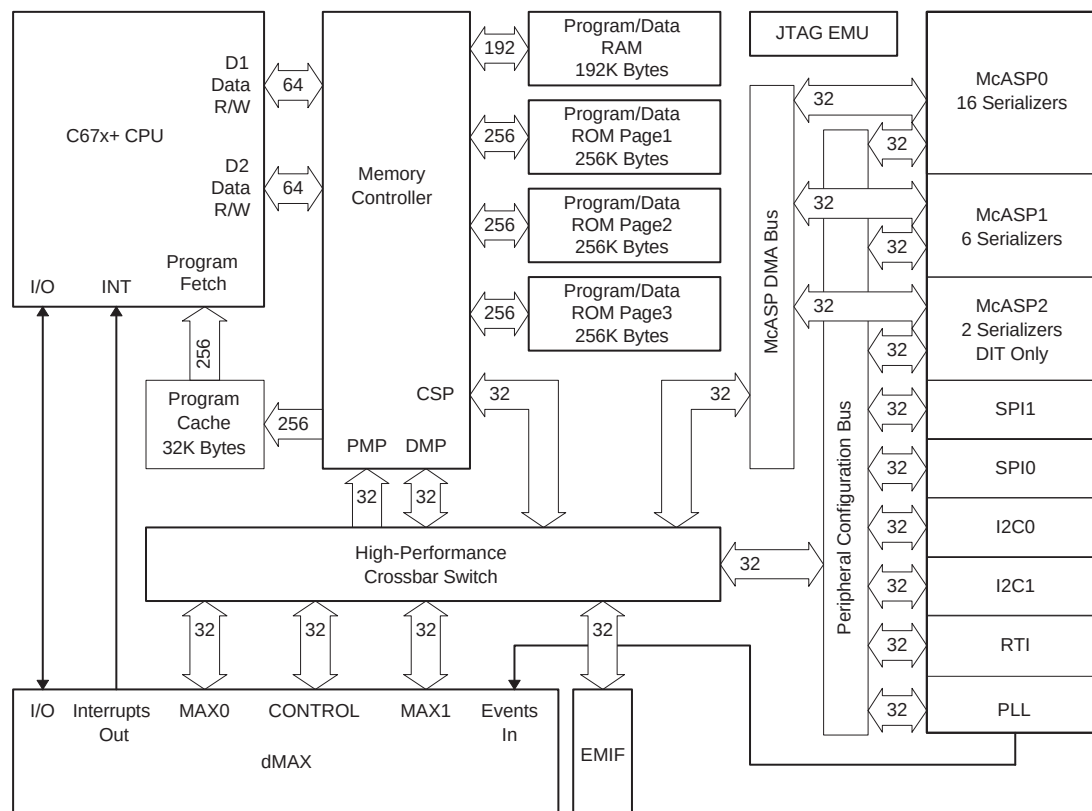
| SIGNAL NAME                                      | PIN NO. | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                   |
|--------------------------------------------------|---------|---------------------|---------------------|---------------------|-------------------------------|
| <b>External Memory Interface (EMIF) Data Bus</b> |         |                     |                     |                     |                               |
| EM_D[0]                                          | 52      | IO                  | -                   | N                   | EMIF Data Bus [Lower 16 Bits] |
| EM_D[1]                                          | 51      | IO                  | -                   | N                   |                               |
| EM_D[2]                                          | 49      | IO                  | -                   | N                   |                               |
| EM_D[3]                                          | 48      | IO                  | -                   | N                   |                               |
| EM_D[4]                                          | 46      | IO                  | -                   | N                   |                               |
| EM_D[5]                                          | 45      | IO                  | -                   | N                   |                               |
| EM_D[6]                                          | 43      | IO                  | -                   | N                   |                               |
| EM_D[7]                                          | 41      | IO                  | -                   | N                   |                               |
| EM_D[8]                                          | 66      | IO                  | -                   | N                   |                               |
| EM_D[9]                                          | 64      | IO                  | -                   | N                   |                               |
| EM_D[10]                                         | 63      | IO                  | -                   | N                   |                               |
| EM_D[11]                                         | 61      | IO                  | -                   | N                   |                               |
| EM_D[12]                                         | 59      | IO                  | -                   | N                   |                               |
| EM_D[13]                                         | 58      | IO                  | -                   | N                   |                               |
| EM_D[14]                                         | 56      | IO                  | -                   | N                   |                               |
| EM_D[15]                                         | 55      | IO                  | -                   | N                   |                               |

| SIGNAL NAME                     | PIN NO.                                                                                                          | TYPE <sup>(1)</sup> | PULL <sup>(2)</sup> | GPIO <sup>(3)</sup> | DESCRIPTION                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|--------------------------------------------------------------|
| <b>Clocks</b>                   |                                                                                                                  |                     |                     |                     |                                                              |
| OSCIN                           | 23                                                                                                               | I                   | -                   | N                   | 1.2-V Oscillator Input                                       |
| OSCOUT                          | 24                                                                                                               | O                   | -                   | N                   | 1.2-V Oscillator Output                                      |
| OSCV <sub>DD</sub>              | 25                                                                                                               | PWR                 | -                   | N                   | Oscillator 1.2-V V <sub>DD</sub> tap point (for filter only) |
| OSCV <sub>SS</sub>              | 22                                                                                                               | PWR                 | -                   | N                   | Oscillator V <sub>SS</sub> tap point (for filter only)       |
| CLKIN                           | 17                                                                                                               | I                   | -                   | N                   | Alternate clock input (3.3-V LVCMOS Input)                   |
| PLLHV                           | 27                                                                                                               | PWR                 | -                   | N                   | PLL 3.3-V Supply Input (requires external filter)            |
| <b>Device Reset</b>             |                                                                                                                  |                     |                     |                     |                                                              |
| RESET                           | 14                                                                                                               | I                   | -                   | N                   | Device reset pin                                             |
| <b>Emulation/JTAG Port</b>      |                                                                                                                  |                     |                     |                     |                                                              |
| TCK                             | 35                                                                                                               | I                   | IPU                 | N                   | Test Clock                                                   |
| TMS                             | 19                                                                                                               | I                   | IPU                 | N                   | Test Mode Select                                             |
| TDI                             | 28                                                                                                               | I                   | IPU                 | N                   | Test Data In                                                 |
| TDO                             | 29                                                                                                               | OZ                  | IPU                 | N                   | Test Data Out                                                |
| TRST                            | 21                                                                                                               | I                   | IPD                 | N                   | Test Reset                                                   |
| EMU[0]                          | 32                                                                                                               | IO                  | IPU                 | N                   | Emulation Pin 0                                              |
| EMU[1]                          | 34                                                                                                               | IO                  | IPU                 | N                   | Emulation Pin 1                                              |
| <b>Power Pins</b>               |                                                                                                                  |                     |                     |                     |                                                              |
| Core Supply (CV <sub>DD</sub> ) | 8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132                                                    |                     |                     |                     |                                                              |
| IO Supply (DV <sub>DD</sub> )   | 10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136                                                           |                     |                     |                     |                                                              |
| Ground (V <sub>SS</sub> )       | 1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140 |                     |                     |                     |                                                              |

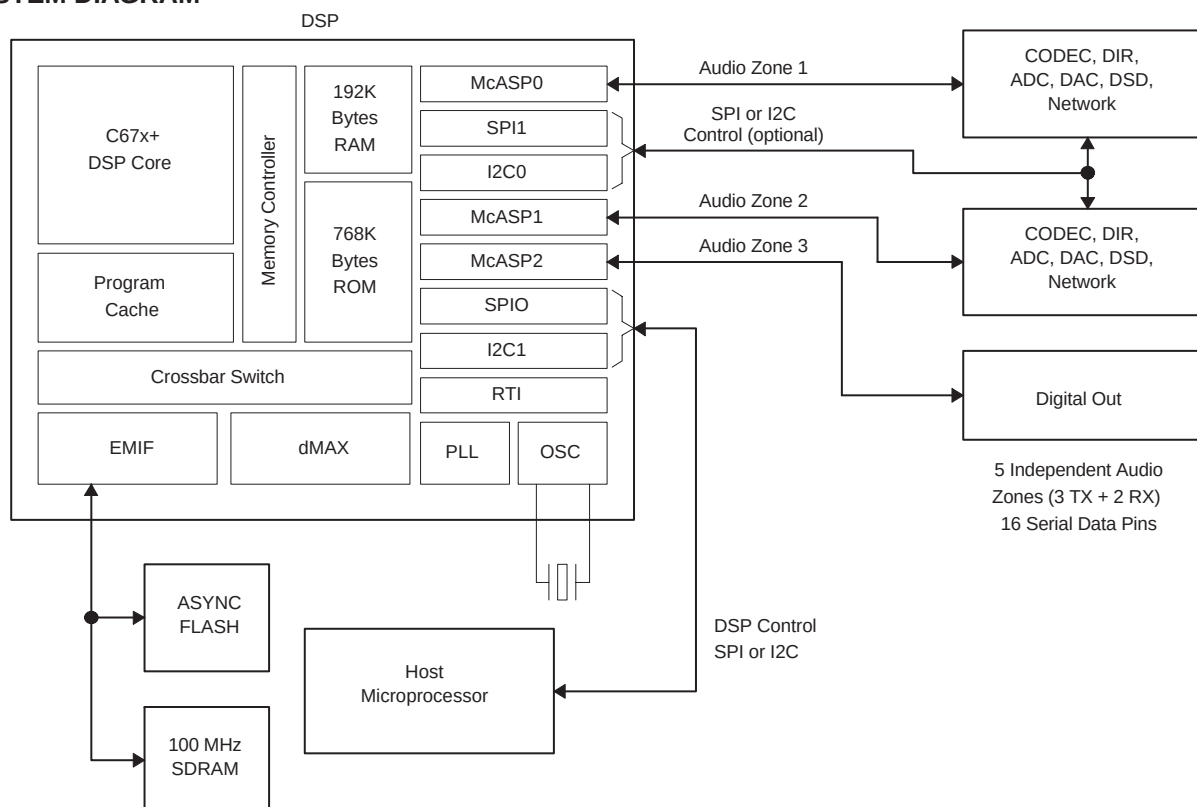
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -27

## Q3601 : D707E001BRFP250 (32 bit Floating-Point Digital Signal Processor)

### BLOCK DIAGRAM



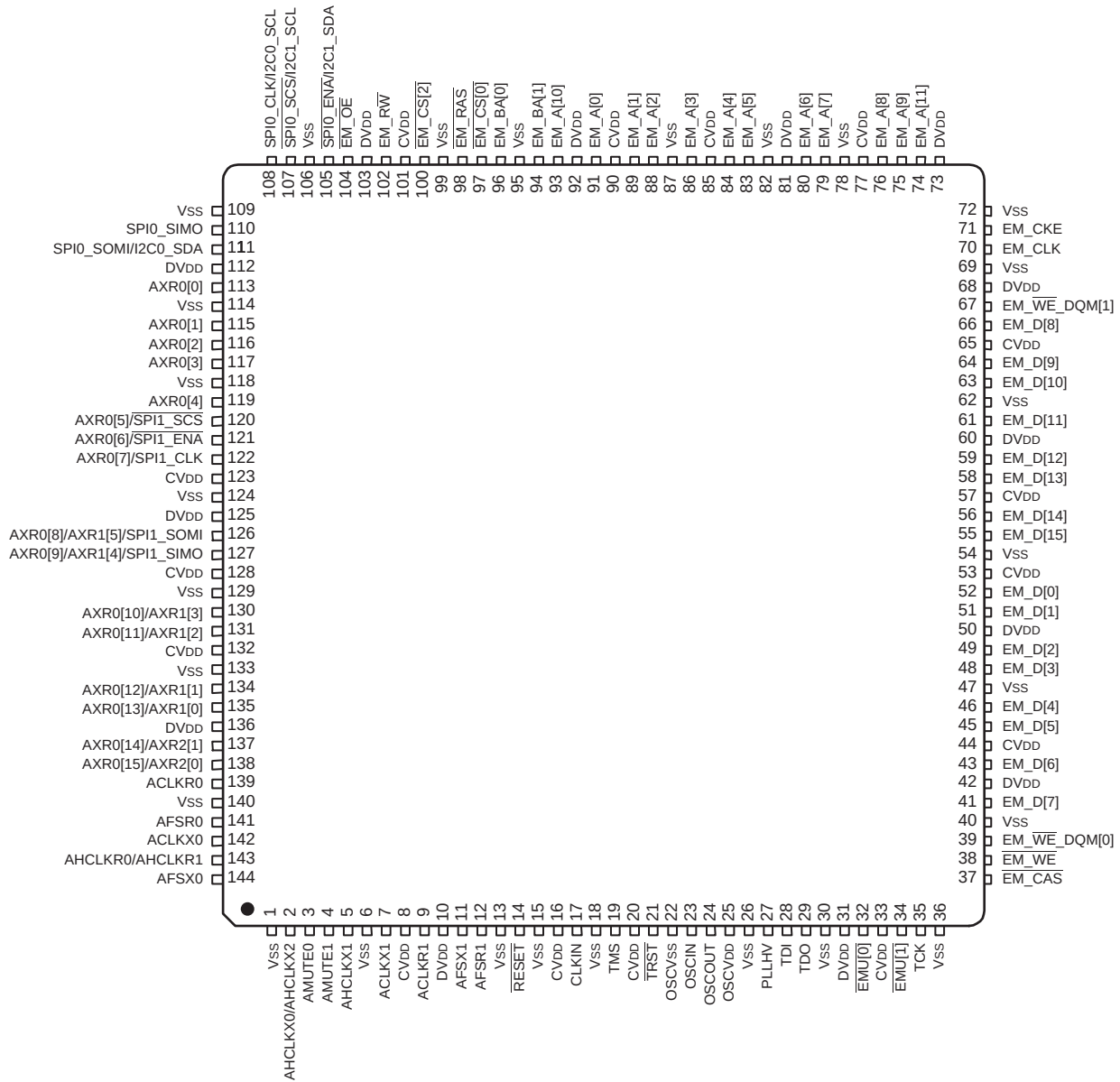
### SYSTEM DIAGRAM



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -28

## Q3601 : D707E001BRFP250 (32 bit Floating-Point Digital Signal Processor)

### PIN CONFIGURATION



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -29

### Q3601 : D707E001BRFP250 (32 bit Floating-Point Digital Signal Processor)

#### TERMINAL DESCRIPTION(1/3)

| SIGNAL NAME                                                 | PIN NO. | TYPE | DESCRIPTION                                                  |
|-------------------------------------------------------------|---------|------|--------------------------------------------------------------|
| <b>External Memory Interface (EMIF) Address and Control</b> |         |      |                                                              |
| EM_A[0]                                                     | 91      | O    | EMIF Address Bus                                             |
| EM_A[1]                                                     | 89      | O    |                                                              |
| EM_A[2]                                                     | 88      | O    |                                                              |
| EM_A[3]                                                     | 86      | O    |                                                              |
| EM_A[4]                                                     | 84      | O    |                                                              |
| EM_A[5]                                                     | 83      | O    |                                                              |
| EM_A[6]                                                     | 80      | O    |                                                              |
| EM_A[7]                                                     | 79      | O    |                                                              |
| EM_A[8]                                                     | 76      | O    |                                                              |
| EM_A[9]                                                     | 75      | O    |                                                              |
| EM_A[10]                                                    | 93      | O    |                                                              |
| EM_A[11]                                                    | 74      | O    |                                                              |
| EM_BA[0]                                                    | 96      | O    | SDRAM Bank Address and Asynchronous Memory Low-Order Address |
| EM_BA[1]                                                    | 94      | O    |                                                              |
| EM_CS[0]                                                    | 97      | O    | SDRAM Chip Select                                            |
| EM_CS[2]                                                    | 100     | O    | Asynchronous Memory Chip Select                              |
| EM_CAS                                                      | 37      | O    | SDRAM Column Address Strobe                                  |
| EM_RAS                                                      | 98      | O    | SDRAM Row Address Strobe                                     |
| EM_WE                                                       | 38      | O    | SDRAM Write Enable                                           |
| EM_CKE                                                      | 71      | O    | SDRAM Clock Enable                                           |
| EM_CLK                                                      | 70      | O    | SDRAM Clock                                                  |
| EM_WE_DQM[0]                                                | 39      | O    | Write Enable or Byte Enable for EM_D[7:0]                    |
| EM_WE_DQM[1]                                                | 67      | O    | Write Enable or Byte Enable for EM_D[15:8]                   |
| EM_OE                                                       | 104     | O    | SDRAM Output Enable                                          |
| EM_RW                                                       | 102     | O    | Asynchronous Memory Read/not Write                           |
| <b>External Memory Interface (EMIF) Data Bus</b>            |         |      |                                                              |
| EM_D[0]                                                     | 52      | IO   | EMIF Data Bus [Lower 16 Bits]                                |
| EM_D[1]                                                     | 51      | IO   |                                                              |
| EM_D[2]                                                     | 49      | IO   |                                                              |
| EM_D[3]                                                     | 48      | IO   |                                                              |
| EM_D[4]                                                     | 46      | IO   |                                                              |
| EM_D[5]                                                     | 45      | IO   |                                                              |
| EM_D[6]                                                     | 43      | IO   |                                                              |
| EM_D[7]                                                     | 41      | IO   |                                                              |
| EM_D[8]                                                     | 66      | IO   |                                                              |
| EM_D[9]                                                     | 64      | IO   |                                                              |
| EM_D[10]                                                    | 63      | IO   |                                                              |
| EM_D[11]                                                    | 61      | IO   |                                                              |
| EM_D[12]                                                    | 59      | IO   |                                                              |
| EM_D[13]                                                    | 58      | IO   |                                                              |
| EM_D[14]                                                    | 56      | IO   |                                                              |
| EM_D[15]                                                    | 55      | IO   |                                                              |



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -30

### Q3601 : D707E001BRFP250 (32 bit Floating-Point Digital Signal Processor)

#### TERMINAL DESCRIPTION(2/3)

| SIGNAL NAME                                          | PIN NO. | TYPE | DESCRIPTION                                                                       |
|------------------------------------------------------|---------|------|-----------------------------------------------------------------------------------|
| <b>McASP0, McASP1, McASP2, and SPI1 Serial Ports</b> |         |      |                                                                                   |
| AHCLKR0/AHCLKR1                                      | 143     | IO   | McASP0 and McASP1 Receive Master Clock                                            |
| ACLKR0                                               | 139     | IO   | McASP0 Receive Bit Clock                                                          |
| AFSR0                                                | 141     | IO   | McASP0 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX0/AHCLKX2                                      | 2       | IO   | McASP0 and McASP2 Transmit Master Clock                                           |
| ACLKX0                                               | 142     | IO   | McASP0 Transmit Bit Clock                                                         |
| AFSX0                                                | 144     | IO   | McASP0 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE0                                               | 3       | O    | McASP0 MUTE Output                                                                |
| AXR0[0]                                              | 113     | IO   | McASP0 Serial Data 0                                                              |
| AXR0[1]                                              | 115     | IO   | McASP0 Serial Data 1                                                              |
| AXR0[2]                                              | 116     | IO   | McASP0 Serial Data 2                                                              |
| AXR0[3]                                              | 117     | IO   | McASP0 Serial Data 3                                                              |
| AXR0[4]                                              | 119     | IO   | McASP0 Serial Data 4                                                              |
| AXR0[5]/SPI1_SCS                                     | 120     | IO   | McASP0 Serial Data 5 or SPI1 Slave Chip Select                                    |
| AXR0[6]/SPI1_ENA                                     | 121     | IO   | McASP0 Serial Data 6 or SPI1 Enable (Ready)                                       |
| AXR0[7]/SPI1_CLK                                     | 122     | IO   | McASP0 Serial Data 7 or SPI1 Serial Clock                                         |
| AXR0[8]/AXR1[5]/SPI1_SOMI                            | 126     | IO   | McASP0 Serial Data 8 or McASP1 Serial Data 5 or SPI1 Data Pin Slave Out Master In |
| AXR0[9]/AXR1[4]/SPI1_SIMO                            | 127     | IO   | McASP0 Serial Data 9 or McASP1 Serial Data 4 or SPI1 Data Pin Slave In Master Out |
| AXR0[10]/AXR1[3]                                     | 130     | IO   | McASP0 Serial Data 10 or McASP1 Serial Data 3                                     |
| AXR0[11]/AXR1[2]                                     | 131     | IO   | McASP0 Serial Data 11 or McASP1 Serial Data 2                                     |
| AXR0[12]/AXR1[1]                                     | 134     | IO   | McASP0 Serial Data 12 or McASP1 Serial Data 1                                     |
| AXR0[13]/AXR1[0]                                     | 135     | IO   | McASP0 Serial Data 13 or McASP1 Serial Data 0                                     |
| AXR0[14]/AXR2[1]                                     | 137     | IO   | McASP0 Serial Data 14 or McASP2 Serial Data 1                                     |
| AXR0[15]/AXR2[0]                                     | 138     | IO   | McASP0 Serial Data 15 or McASP2 Serial Data 0                                     |
| ACLKR1                                               | 9       | IO   | McASP1 Receive Bit Clock                                                          |
| AFSR1                                                | 12      | IO   | McASP1 Receive Frame Sync (L/R Clock)                                             |
| AHCLKX1                                              | 5       | IO   | McASP1 Transmit Master Clock                                                      |
| ACLKX1                                               | 7       | IO   | McASP1 Transmit Bit Clock                                                         |
| AFSX1                                                | 11      | IO   | McASP1 Transmit Frame Sync (L/R Clock)                                            |
| AMUTE1                                               | 4       | O    | McASP1 MUTE Output                                                                |
| <b>SPI0, I2C0, and I2C1 Serial Port Pins</b>         |         |      |                                                                                   |
| SPI0_SOMI/I2C0_SDA                                   | 111     | IO   | SPI0 Data Pin Slave Out Master In or I2C0 Serial Data                             |
| SPI0_SIMO                                            | 110     | IO   | SPI0 Data Pin Slave In Master Out                                                 |
| SPI0_CLK/I2C0_SCL                                    | 108     | IO   | SPI0 Serial Clock or I2C0 Serial Clock                                            |
| SPI0_SCS/I2C1_SCL                                    | 107     | IO   | SPI0 Slave Chip Selector I2C1 Serial Clock                                        |
| SPI0_ENA/I2C1_SDA                                    | 105     | IO   | SPI0 Enable (Ready) or I2C1 Serial Data                                           |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -31

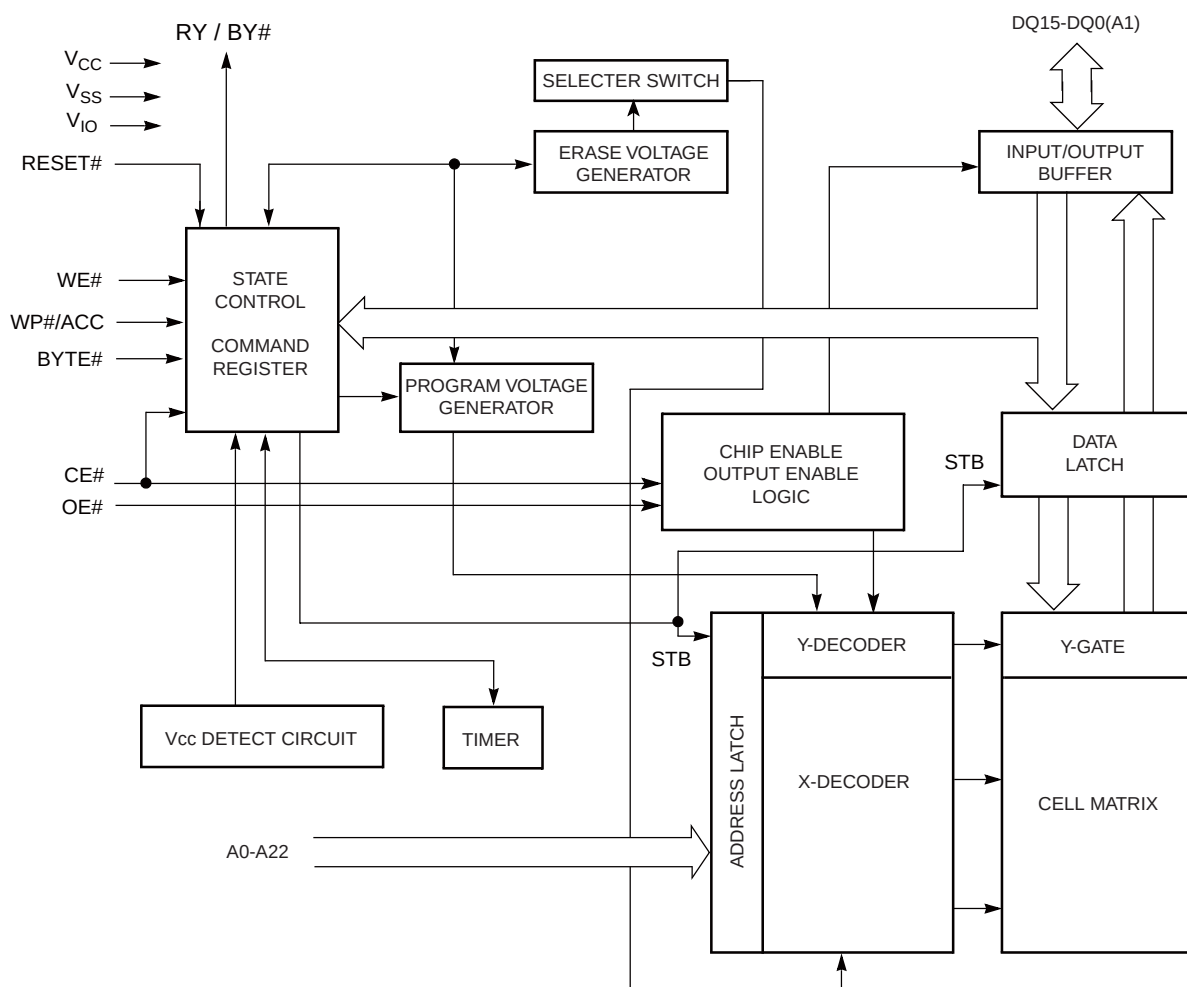
### Q3601 : D707E001BRFP250 (32 bit Floating-Point Digital Signal Processor)

#### TERMINAL DESCRIPTION(3/3)

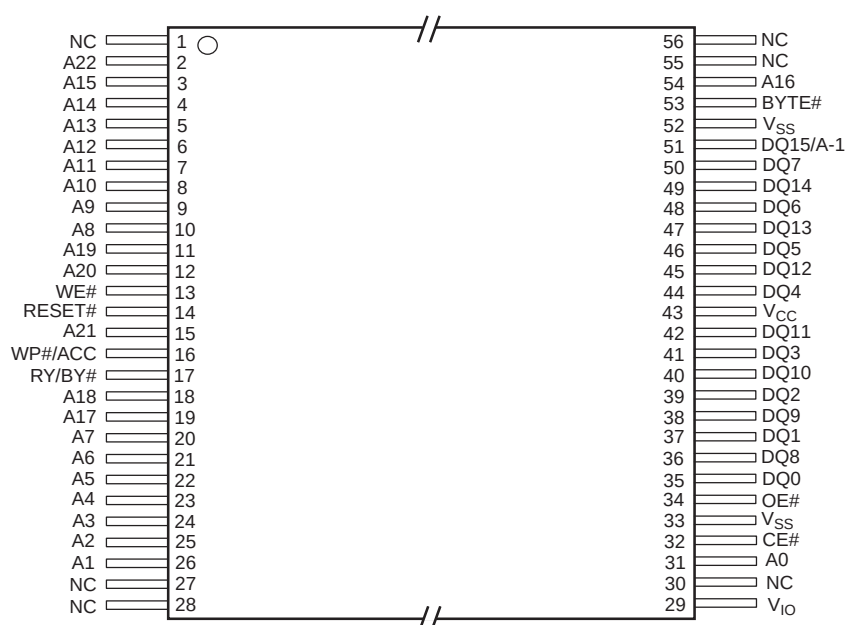
| SIGNAL NAME                | PIN NO.                                                                                                          | TYPE | DESCRIPTION                                       |
|----------------------------|------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------|
| <b>Clocks</b>              |                                                                                                                  |      |                                                   |
| OSCIN                      | 23                                                                                                               | I    | 1.2-V OscillatorInput                             |
| OSCOUT                     | 24                                                                                                               | O    | 1.2-V OscillatorOutput                            |
| OSCVDD                     | 25                                                                                                               | PWR  | Oscillator 1.2-V VDD tap point (for filter only)  |
| OSCVSS                     | 22                                                                                                               | PWR  | Oscillator VSS tap point (for filter only)        |
| CLKIN                      | 17                                                                                                               | I    | Alternate clock input (3.3-V LVCMOS Input)        |
| PLLHV                      | 27                                                                                                               | PWR  | PLL 3.3-V Supply Input (requires external filter) |
| <b>Device Reset</b>        |                                                                                                                  |      |                                                   |
| RESET                      | 14                                                                                                               | I    | Device reset pin                                  |
| <b>Emulation/JTAG Port</b> |                                                                                                                  |      |                                                   |
| TCK                        | 35                                                                                                               | I    | Test Clock                                        |
| TMS                        | 19                                                                                                               | I    | Test Mode Select                                  |
| TDI                        | 28                                                                                                               | I    | Test Data In                                      |
| TDO                        | 29                                                                                                               | OZ   | Test Data Out                                     |
| TRST                       | 21                                                                                                               | I    | Test Reset                                        |
| EMU[0]                     | 32                                                                                                               | IO   | Emulation Pin 0                                   |
| EMU[1]                     | 34                                                                                                               | IO   | Emulation Pin 1                                   |
| <b>Power Pins</b>          |                                                                                                                  |      |                                                   |
| Core Supply (CVDD)         | 8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132                                                    |      |                                                   |
| IO Supply (DVDD)           | 10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136                                                           |      |                                                   |
| Ground (VSS)               | 1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140 |      |                                                   |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -32

### BLOCK DIAGRAM



## PIN CONFIGURATION



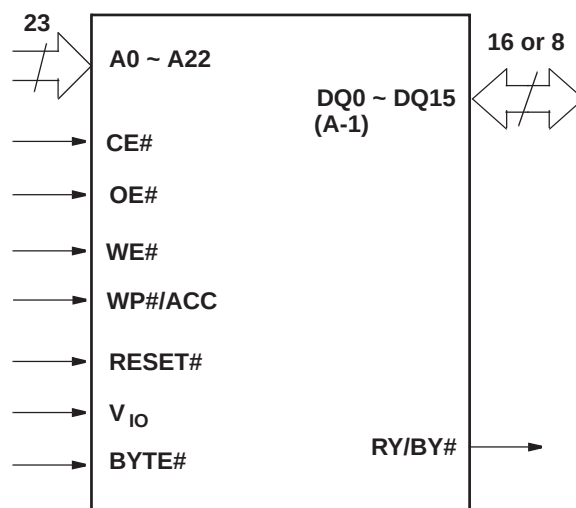
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -33

### U8031: S29GL128N (128 Mbit Flash Memory)

#### TERMINAL DESCRIPTION

| PIN             | DESCRIPTION                                                          |
|-----------------|----------------------------------------------------------------------|
| A0 ~ A22        | Adress Input(23 pins)                                                |
| DQ0 ~ DQ14      | Data Input/Output(15 pins)                                           |
| DQ15 / A-1      | DQ15(Data Input/Output: Word Mode), A-1(LSB Adress Input: Bite Mode) |
| BYTE#           | Selector of 8 bit Mode and 16 bit Mode                               |
| CE#             | Chip Enable                                                          |
| OE#             | Output Enable                                                        |
| WE#             | Write Enable                                                         |
| RESET#          | Hardware Reset Pin                                                   |
| WP# / ACC       | Hardware Write Protect Input/Acceleration Input                      |
| RY / BY#        | Ready / Busy Output                                                  |
| V <sub>CC</sub> | 3.0V Power Supply                                                    |
| V <sub>IO</sub> | Output Buffer Power Supply                                           |
| V <sub>SS</sub> | GND                                                                  |
| NC              | No Connection                                                        |

#### LOGIC SYMBOL

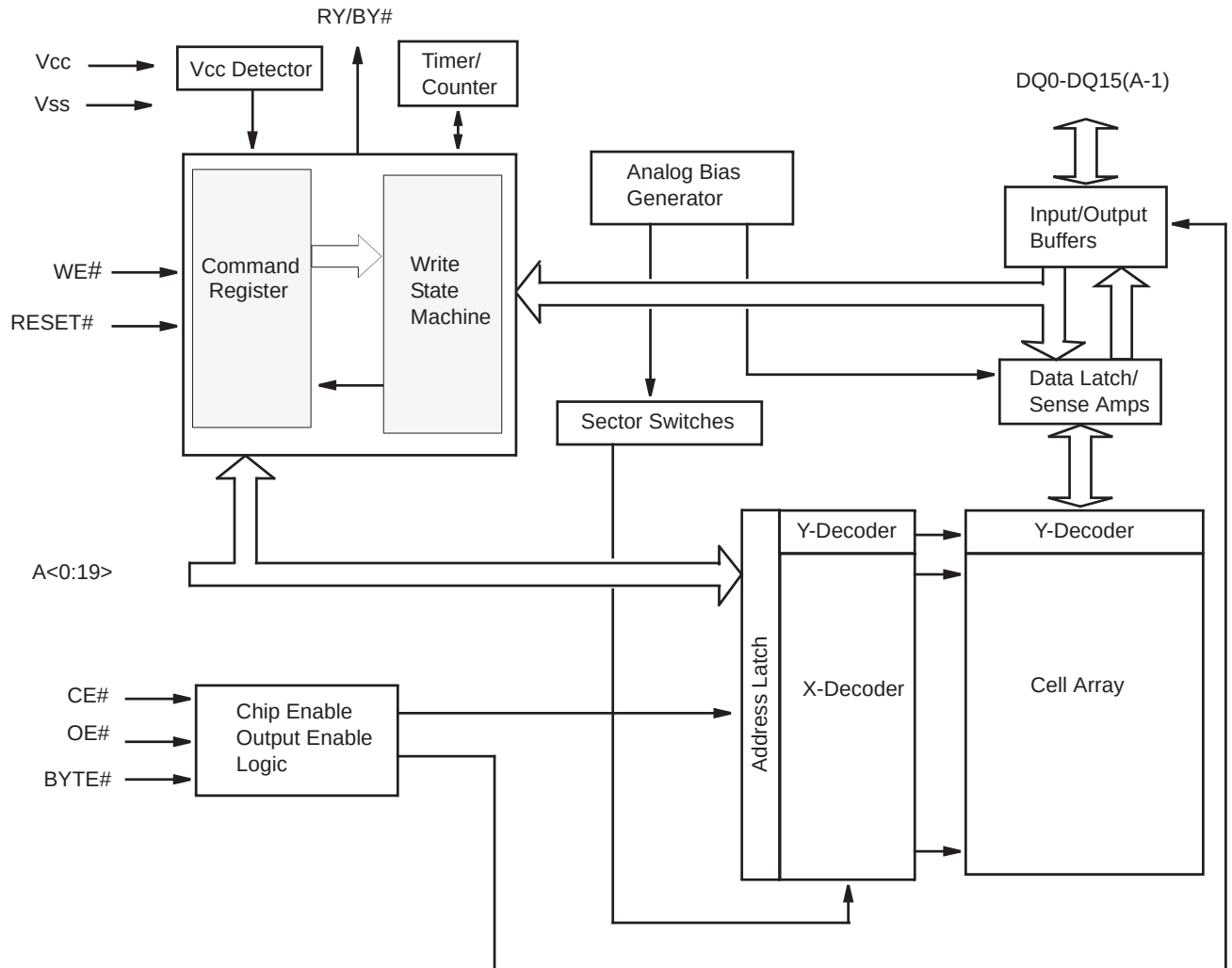




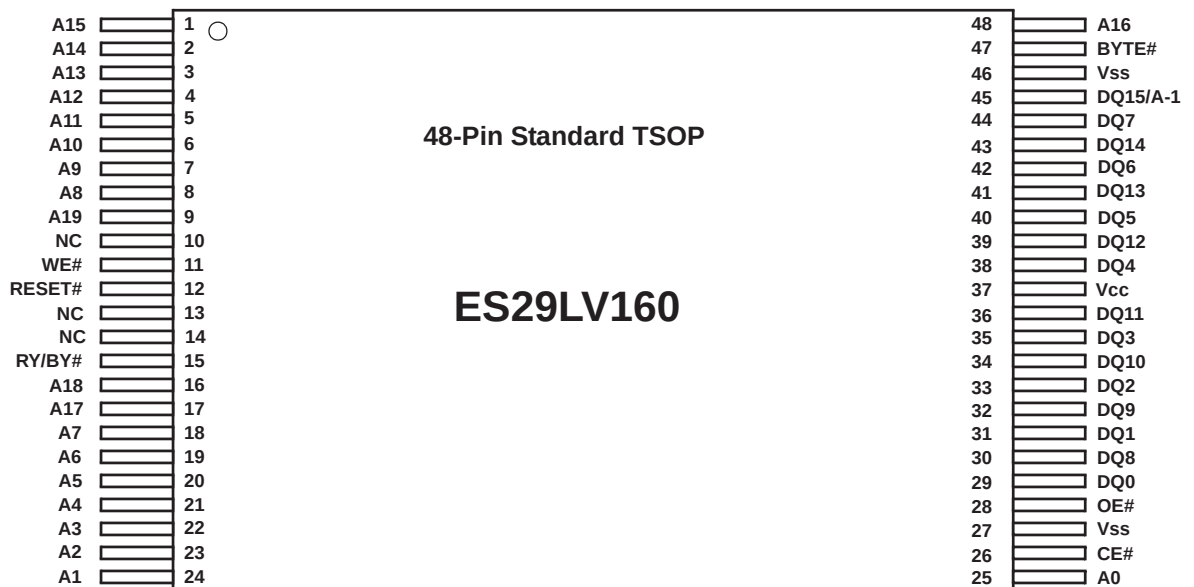
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -34

## Q3451: ES29LV160ET-70TG (16 Mbit Flash Memory)

### BLOCK DIAGRAM



### PIN CONFIGURATION



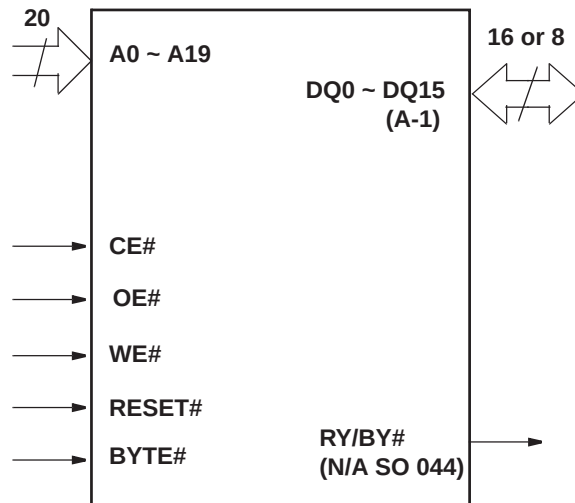
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -35

## Q3451: ES29LV160ET-70TG (16 Mbit Flash Memory)

### TERMINAL DESCRIPTION

| Pin      | Description                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------|
| A0-A19   | 20 Addresses                                                                                                      |
| DQ0-DQ14 | 15 Data Inputs/Outputs                                                                                            |
| DQ15/A-1 | DQ15 (Data Input/Output, Word Mode)<br>A-1 (LSB Address Input, Byte Mode)                                         |
| CE#      | Chip Enable                                                                                                       |
| OE#      | Output Enable                                                                                                     |
| WE#      | Write Enable                                                                                                      |
| RESET#   | Hardware Reset Pin, Active Low                                                                                    |
| BYTE#    | Selects 8-bit or 16-bit mode                                                                                      |
| RY/BY#   | Ready/Busy Output (N/A SO 044)                                                                                    |
| Vcc      | 3.0 volt-only single power supply<br>(see Product Selector Guide for speed options and voltage supply tolerances) |
| Vss      | Device Ground                                                                                                     |
| NC       | Pin Not Connected Internally                                                                                      |

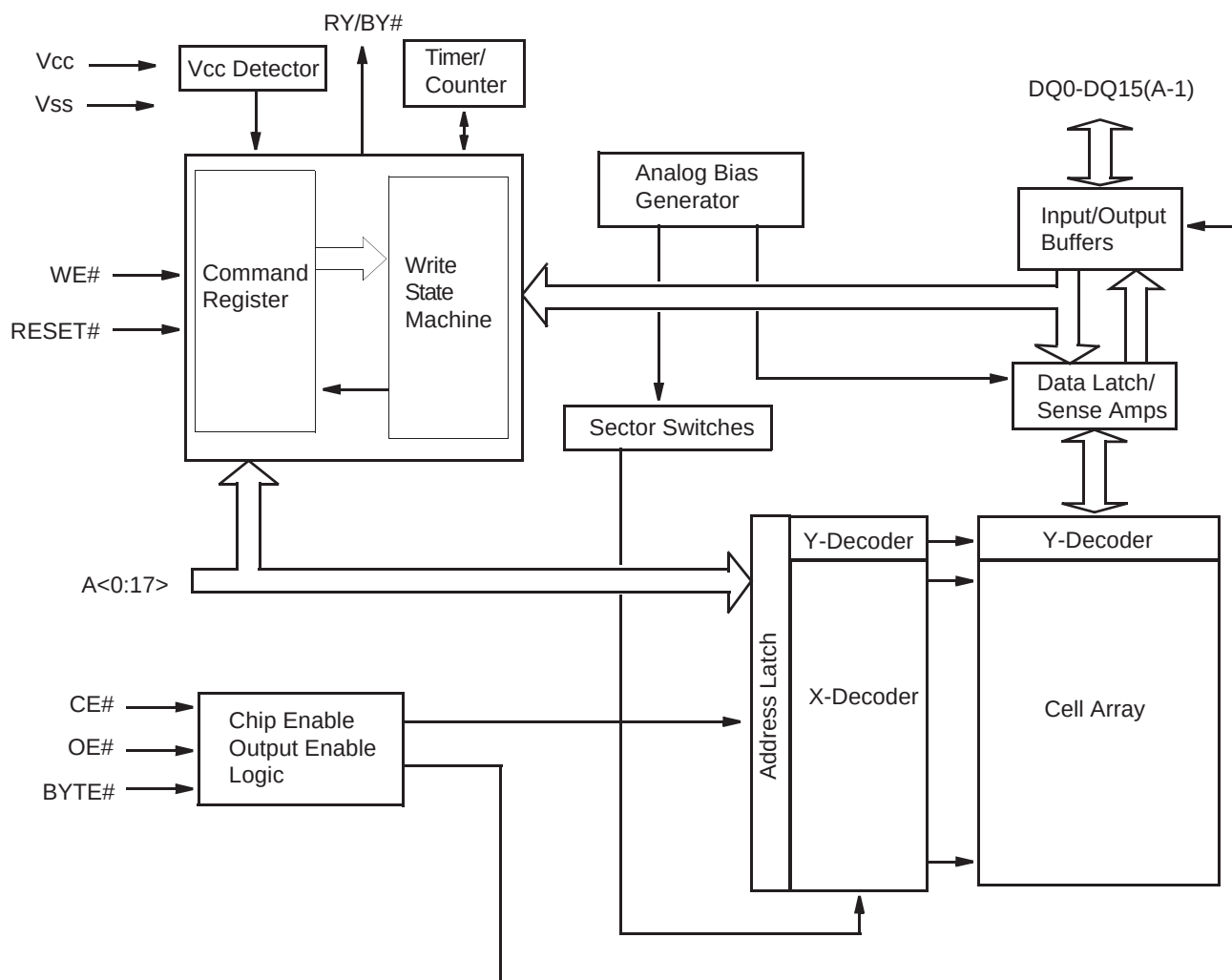
### LOGIC SYMBOL



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -36

## Q3551 : ES29LV400ET-70TG (4 Mbit Flash Memory)

### BLOCK DIAGRAM



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -37

### Q3551 : ES29LV400ET-70TG (4 Mbit Flash Memory)

#### PIN CONFIGURATION



#### TERMINAL DESCRIPTION

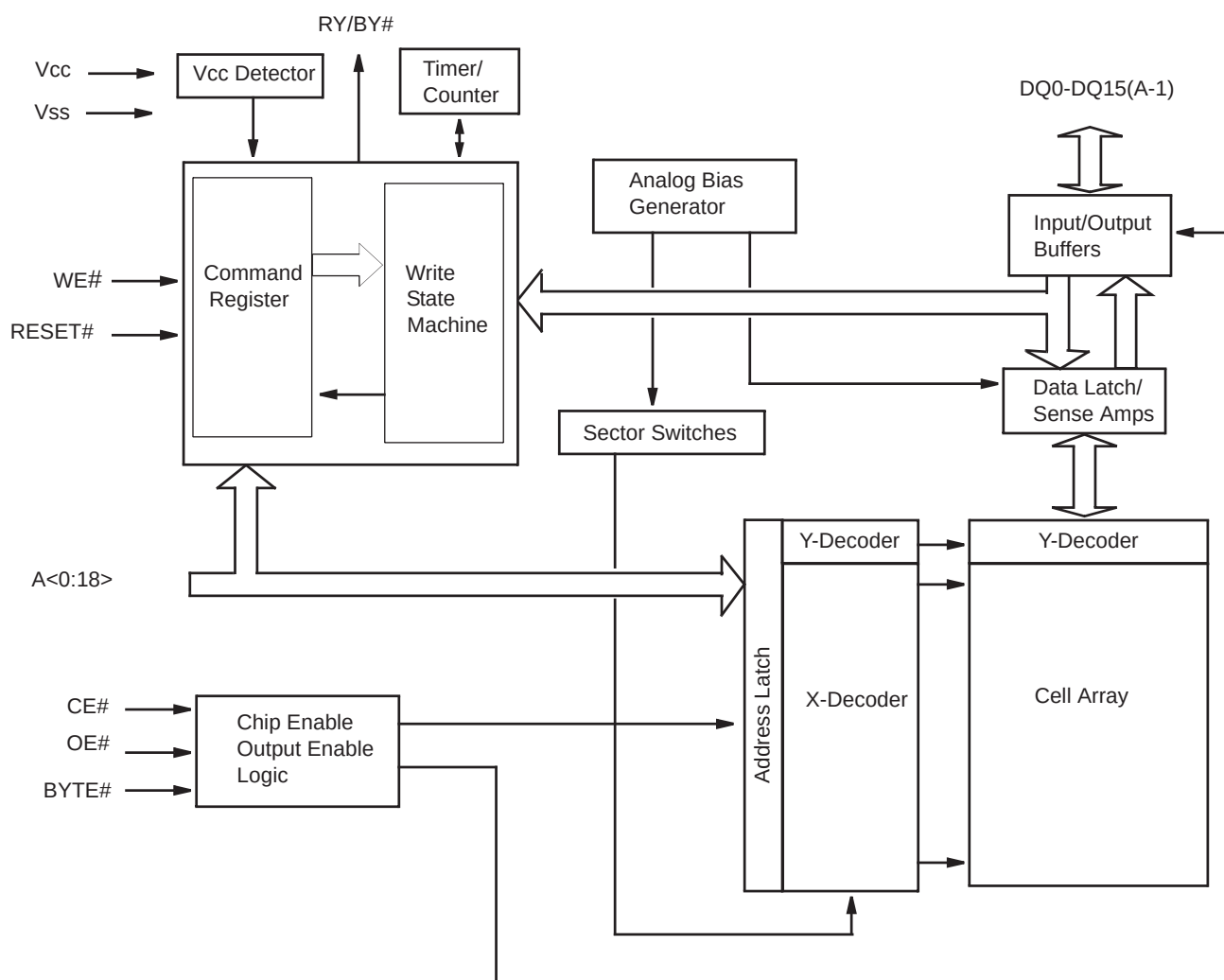
| Terminal | Description                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------|
| A0-A17   | 18 Addresses                                                                                                      |
| DQ0-DQ14 | 15 Data Inputs/Outputs                                                                                            |
| DQ15/A-1 | DQ15 (Data Input/Output, Word Mode)<br>A-1 (LSB Address Input, Byte Mode)                                         |
| CE#      | Chip Enable                                                                                                       |
| OE#      | Output Enable                                                                                                     |
| WE#      | Write Enable                                                                                                      |
| RESET#   | Hardware Reset Pin, Active Low                                                                                    |
| BYTE#    | Selects 8-bit or 16-bit mode                                                                                      |
| RY/BY#   | Ready/Busy Output                                                                                                 |
| Vcc      | 3.0 volt-only single power supply<br>(see Product Selector Guide for speed options and voltage supply tolerances) |
| Vss      | Device Ground                                                                                                     |
| NC       | Pin Not Connected Internally                                                                                      |



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -38

## Q3651 : ES29LV800ET-70TG (8 Mbit Flash Memory)

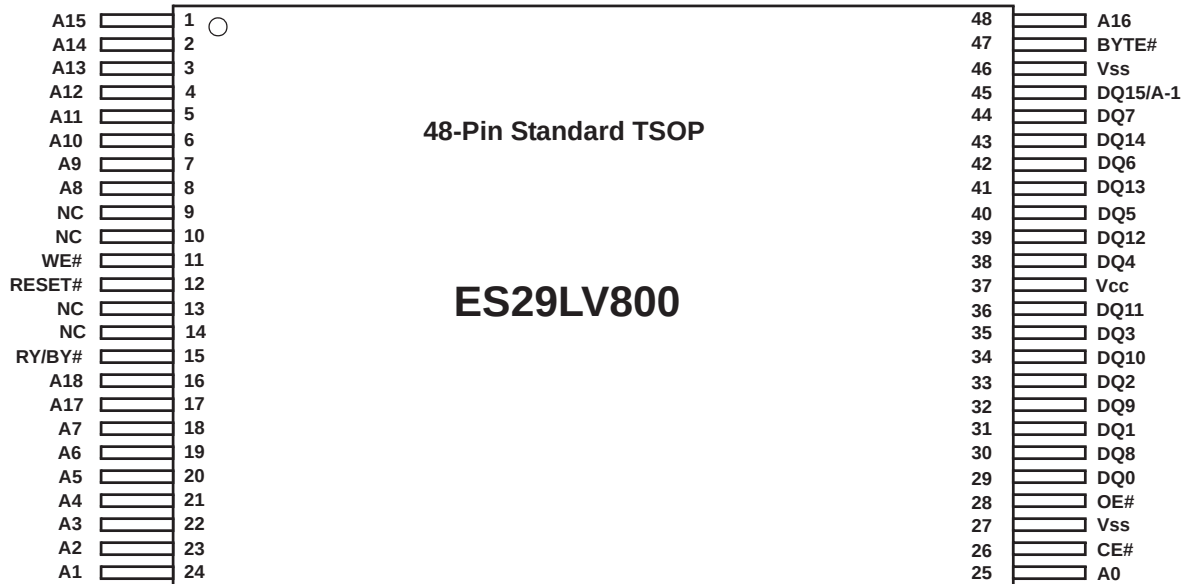
### BLOCK DIAGRAM



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -39

### Q3651 : ES29LV800ET-70TG (8 Mbit Flash Memory)

#### PIN CONFIGURATION



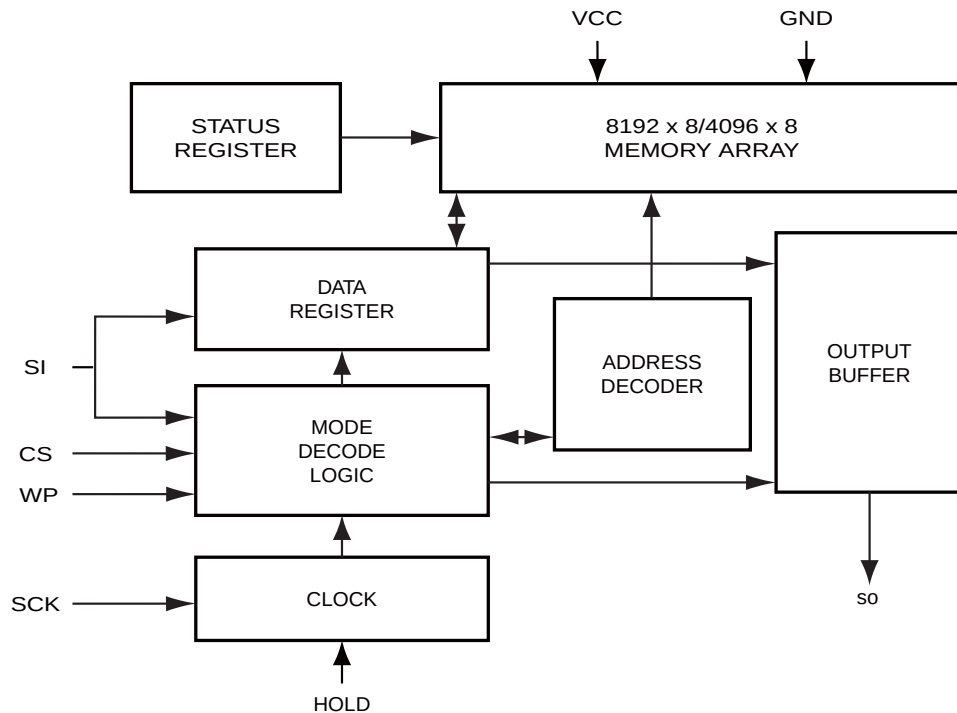
#### TERMINAL DESCRIPTION

| Pin      | Description                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------|
| A0-A18   | 19 Addresses                                                                                                      |
| DQ0-DQ14 | 15 Data Inputs/Outputs                                                                                            |
| DQ15/A-1 | DQ15 (Data Input/Output, Word Mode)<br>A-1 (LSB Address Input, Byte Mode)                                         |
| CE#      | Chip Enable                                                                                                       |
| OE#      | Output Enable                                                                                                     |
| WE#      | Write Enable                                                                                                      |
| RESET#   | Hardware Reset Pin, Active Low                                                                                    |
| BYTE#    | Selects 8-bit or 16-bit mode                                                                                      |
| RY/BY#   | Ready/Busy Output                                                                                                 |
| Vcc      | 3.0 volt-only single power supply<br>(see Product Selector Guide for speed options and voltage supply tolerances) |
| Vss      | Device Ground                                                                                                     |
| NC       | Pin Not Connected Internally                                                                                      |

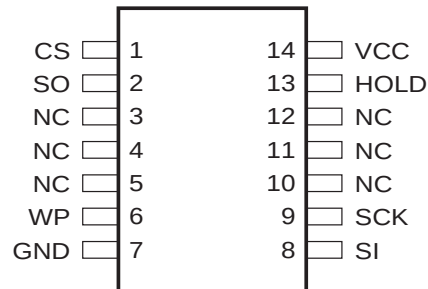
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -40

### Q7391: IS25C64A(64 kbit EEPROM)

#### BLOCK DIAGRAM



#### PIN CONFIGURATION



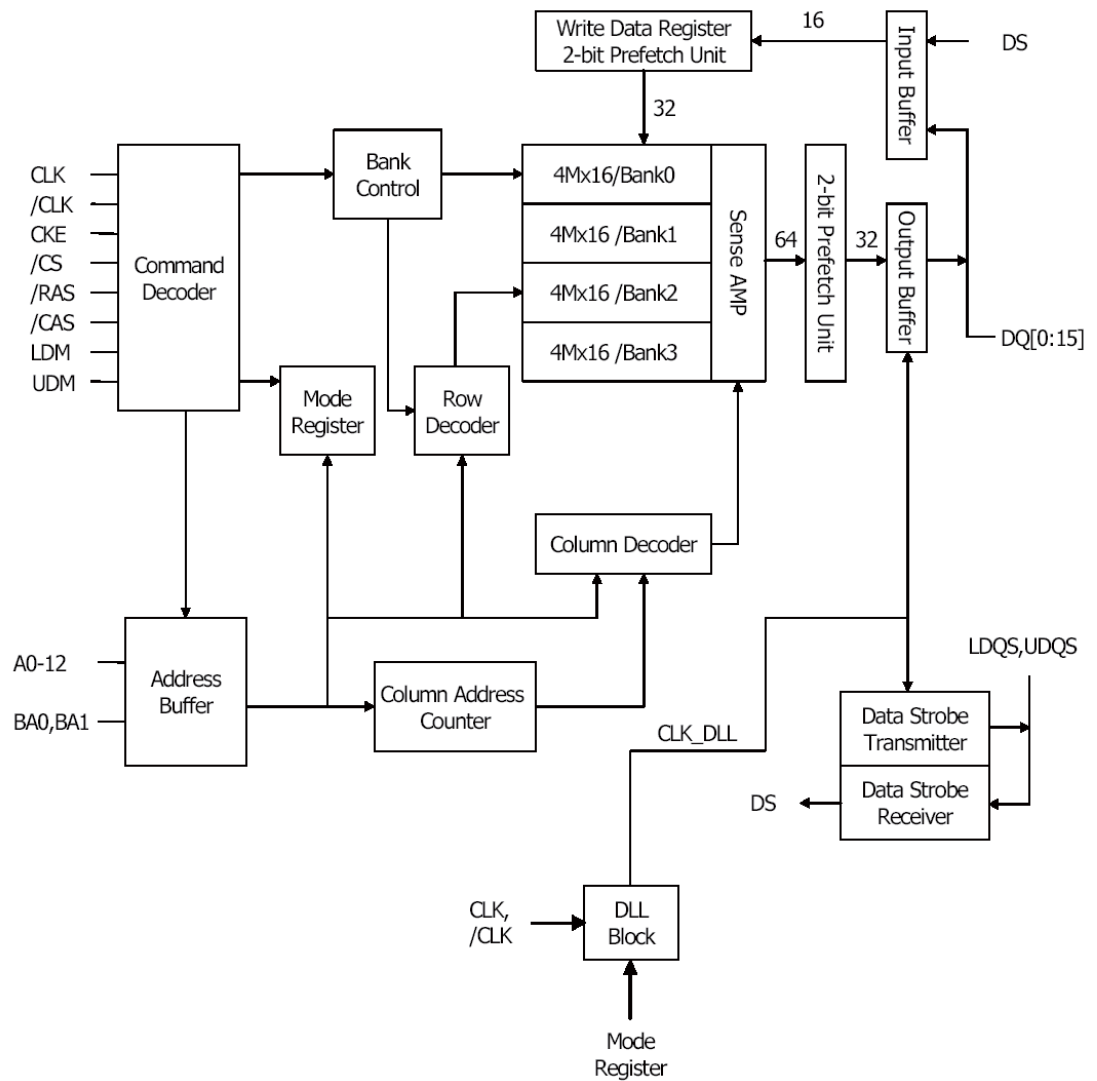
#### TERMINAL DESCRIPTION

|      |                       |
|------|-----------------------|
| CS   | Chip Select           |
| SCK  | Serial Data Clock     |
| SI   | Serial Data Input     |
| SO   | Serial Data Output    |
| GND  | Ground                |
| Vcc  | Power                 |
| WP   | Write Protect         |
| HOLD | Suspends Serial Input |
| NC   | No Connect            |

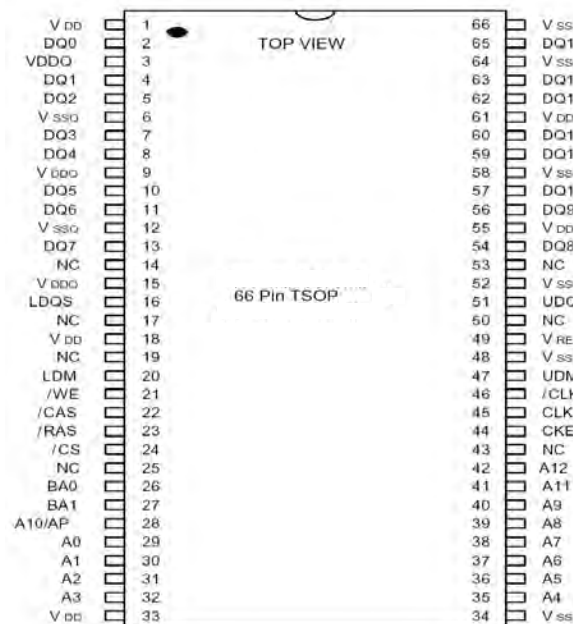
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -41

### U8027, U8028, U8029, U8030: HY5DU561622ETP (256 Mbit DDR SDRAM)

#### BLOCK DIAGRAM



#### PIN CONFIGURATION





## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -42

### U8027, U8028, U8029, U8030: HY5DU561622ETP (256 Mbit DDR SDRAM)

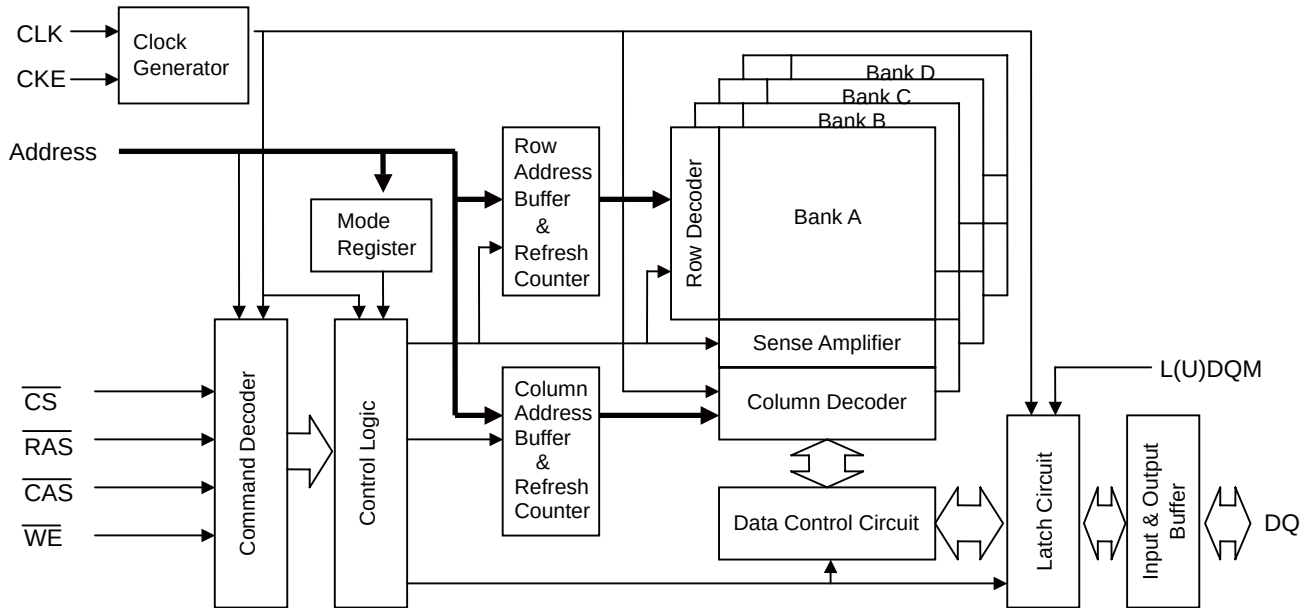
#### TERMINAL DESCRIPTION

| PIN             | TYPE   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CK, /CK         | Input  | Clock: CK and /CK are differential clock inputs. All address and control input signals are sampled on the crossing of the positive edge of CK and negative edge of /CK. Output (read) data is referenced to the crossings of CK and /CK (both directions of crossing).                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CKE             | Input  | Clock Enable: CKE HIGH activates, and CKE LOW deactivates internal clock signals, and device input buffers and output drivers. Taking CKE LOW provides PRECHARGE POWER DOWN and SELF REFRESH operation (all banks idle), or ACTIVE POWER DOWN (row ACTIVE in any bank). CKE is synchronous for POWER DOWN entry and exit, and for SELF REFRESH entry. CKE is asynchronous for SELF REFRESH exit, and for output disable. CKE must be maintained high throughout READ and WRITE accesses. Input buffers, excluding CK, /CK and CKE are disabled during POWER DOWN. Input buffers, excluding CKE are disabled during SELF REFRESH. CKE is an SSTL_2 input, but will detect an LVCMOS LOW level after Vdd is applied. |
| /CS             | Input  | Chip Select : Enables or disables all inputs except CK, /CK, CKE, DQS and DM. All commands are masked when CS is registered high. CS provides for external bank selection on systems with multiple banks. CS is considered part of the command code.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| BA0, BA1        | Input  | Bank Address Inputs: BA0 and BA1 define to which bank an ACTIVE, Read, Write or PRECHARGE command is being applied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A0 ~ A12        | Input  | Address Inputs: Provide the row address for ACTIVE commands, and the column address and AUTO PRECHARGE bit for READ/WRITE commands, to select one location out of the memory array in the respective bank. A10 is sampled during a precharge command to determine whether the PRECHARGE applies to one bank (A10 LOW) or all banks (A10 HIGH). If only one bank is to be precharged, the bank is selected by BA0, BA1. The address inputs also provide the op code during a MODE REGISTER SET command. BA0 and BA1 define which mode register is loaded during the MODE REGISTER SET command (MRS or EMRS).                                                                                                        |
| /RAS, /CAS, /WE | Input  | Command Inputs: /RAS, /CAS and /WE (along with /CS) define the command being entered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LDM, UDM        | Input  | Input Data Mask: DM(LDM,UDM) is an input mask signal for write data. Input data is masked when DM is sampled HIGH along with that input data during a WRITE access. DM is sampled on both edges of DQS. Although DM pins are input only, the DM loading matches the DQ and DQS loading. LDM corresponds to the data on DQ0-Q7; UDM corresponds to the data on DQ8-Q15.                                                                                                                                                                                                                                                                                                                                             |
| LDQS, UDQS      | I/O    | Data Strobe: Output with read data, input with write data. Edge aligned with read data, centered in write data. Used to capture write data. LDQS corresponds to the data on DQ0-Q7; UDQS corresponds to the data on DQ8-Q15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DQ0 ~ DQ15      | I/O    | Data input / output pin : Data Bus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VDD/VSS         | Supply | Power supply for internal circuits and input buffers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VDDQ/VSSQ       | Supply | Power supply for output buffers for noise immunity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VREF            | Supply | Reference voltage for inputs for SSTL interface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NC              | NC     | No connection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

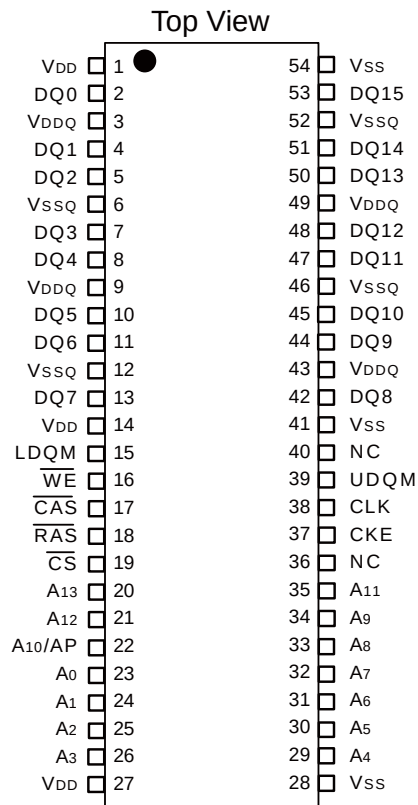
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -45

### Q3661:M12L64164A-7TG (64 Mbit Synchronous DRAM)

#### BLOCK DIAGRAM



#### PIN CONFIGURATION



#### FEATURES

- JEDEC standard 3.3V power supply
- LVTTTL compatible with multiplexed address
- Four banks operation
- MRS cycle with address key programs
  - CAS Latency (2 & 3)
  - Burst Length (1, 2, 4, 8 & full page)
  - Burst Type (Sequential & Interleave)
- All inputs are sampled at the positive going edge of the system clock
- Auto & self refresh
- 15.6  $\mu$ s refresh interval

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -46

### Q3661:M12L64164A-7TG (64 Mbit Synchronous DRAM)

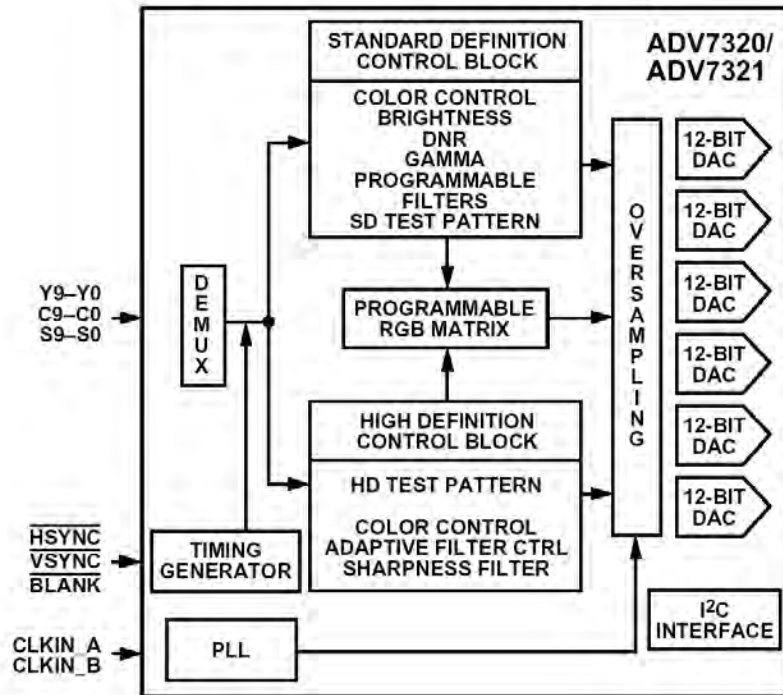
#### TERMINAL DESCRIPTION

| PIN                     | NAME                       | INPUT FUNCTION                                                                                                                                                                 |
|-------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLK                     | System Clock               | Active on the positive going edge to sample all inputs                                                                                                                         |
| $\overline{\text{CS}}$  | Chip Select                | Disables or enables device operation by masking or enabling all inputs except CLK , CKE and L(U)DQM                                                                            |
| CKE                     | Clock Enable               | Masks system clock to freeze operation from the next clock cycle. CKE should be enabled at least one cycle prior new command. Disable input buffers for power down in standby. |
| A0 ~ A11                | Address                    | Row / column address are multiplexed on the same pins.<br>Row address : RA0~RA11, column address : CA0~CA7                                                                     |
| A12 , A13               | Bank Select Address        | Selects bank to be activated during row address latch time.<br>Selects bank for read / write during column address latch time.                                                 |
| $\overline{\text{RAS}}$ | Row Address Strobe         | Latches row addresses on the positive going edge of the CLK with $\overline{\text{RAS}}$ low.<br>Enables row access & precharge.                                               |
| $\overline{\text{CAS}}$ | Column Address Strobe      | Latches column address on the positive going edge of the CLK with $\overline{\text{CAS}}$ low.<br>Enables column access.                                                       |
| $\overline{\text{WE}}$  | Write Enable               | Enables write operation and row precharge.<br>Latches data in starting from $\overline{\text{CAS}}$ , $\overline{\text{WE}}$ active.                                           |
| L(U)DQM                 | Data Input / Output Mask   | Makes data output Hi-Z, $t_{\text{SHZ}}$ after the clock and masks the output. Blocks data input when L(U)DQM active.                                                          |
| DQ0 ~ DQ15              | Data Input / Output        | Data inputs / outputs are multiplexed on the same pins.                                                                                                                        |
| VDD / VSS               | Power Supply / Ground      | Power and ground for the input buffers and the core logic.                                                                                                                     |
| VDDQ / VSSQ             | Data Output Power / Ground | Isolated power supply and ground for the output buffers to provide improved noise immunity.                                                                                    |
| NC                      | No Connection              | This pin is recommended to be left No Connection on the device.                                                                                                                |

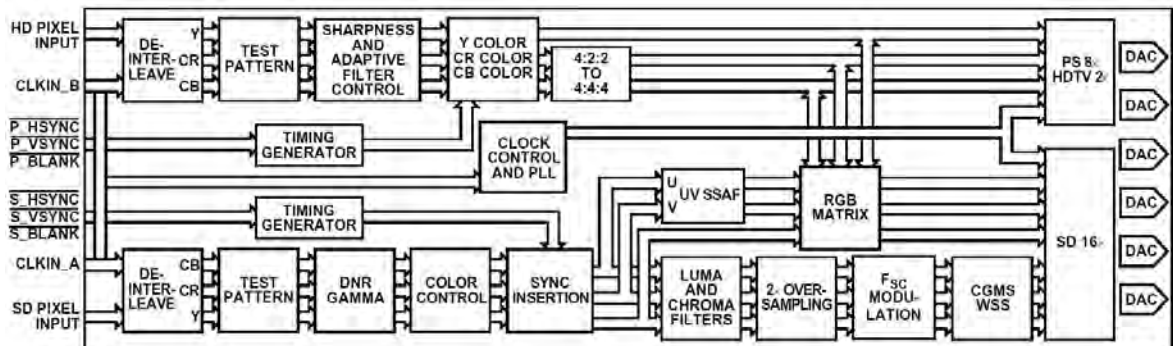
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -47

## Q8901: ADV7320 (Video Encoder with Six 12-bit DACs)

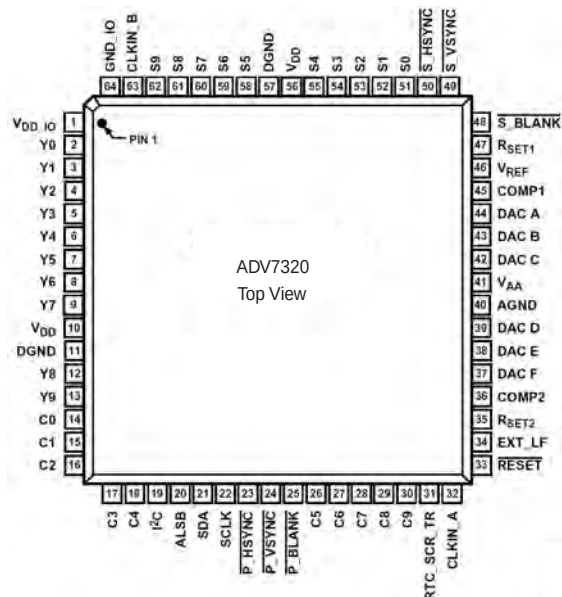
### BLOCK DIAGRAM



### Detailed BLOCK DIAGRAM



### PIN CONFIGURATION





# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -48

## Q8901: ADV7320 (Video Encoder with Six 12-bit DACs)

### TERMINAL DESCRIPTION

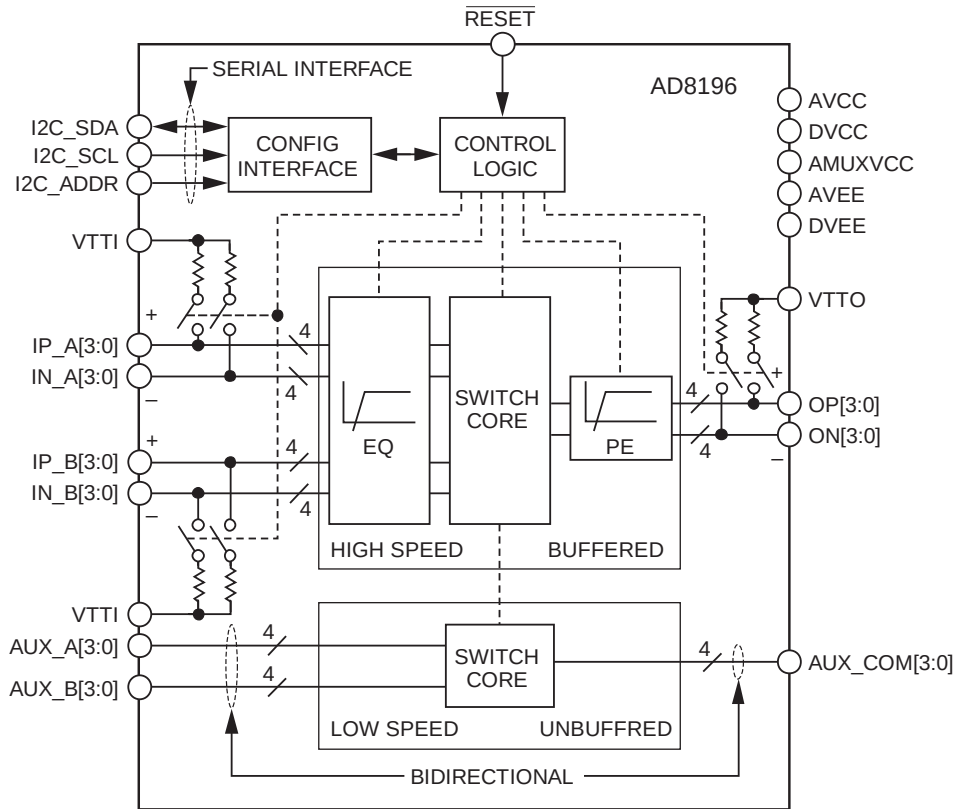
| Pin No.               | Mnemonic        | Input/Output | Description                                                                                                                                                        |
|-----------------------|-----------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11, 57                | DGND            | G            | Digital Ground.                                                                                                                                                    |
| 40                    | AGND            | G            | Analog Ground.                                                                                                                                                     |
| 32                    | CLKIN_A         | I            | Pixel Clock Input for HD Only (74.25 MHz), PS Only (27 MHz), and SD Only (27 MHz).                                                                                 |
| 63                    | CLKIN_B         | I            | Pixel Clock Input. Requires a 27 MHz reference clock for PS mode or a 74.25 MHz (74.1758 MHz) reference clock in HDTV mode. This clock is only used in dual modes. |
| 45, 36                | COMP1,<br>COMP2 | O            | Compensation Pin for DACs. Connect 0.1 $\mu$ F capacitor from COMP pin to $V_{AA}$ .                                                                               |
| 44                    | DAC A           | O            | CVBS/Green/Y/Y Analog Output.                                                                                                                                      |
| 43                    | DAC B           | O            | Chroma/Blue/U/Pb Analog Output.                                                                                                                                    |
| 42                    | DAC C           | O            | Luma/Red/V/Pr Analog Output.                                                                                                                                       |
| 39                    | DAC D           | O            | In SD Only Mode: CVBS/Green/Y Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Y/Green [HD] Analog Output.                                              |
| 38                    | DAC E           | O            | In SD Only Mode: Luma/Blue/U Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pr/Red Analog Output.                                                     |
| 37                    | DAC F           | O            | In SD Only Mode: Chroma/Red/V Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pb/Blue [HD] Analog Output.                                              |
| 23                    | P_HSYNC         | I            | Video Horizontal Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.                                                                           |
| 24                    | P_VSYNC         | I            | Video Vertical Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.                                                                             |
| 25                    | P_BLANK         | I            | Video Blanking Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.                                                                                  |
| 48                    | S_BLANK         | I/O          | Video Blanking Control Signal for SD Only.                                                                                                                         |
| 49                    | S_VSYNC         | I/O          | Video Vertical Sync Control Signal for SD Only.                                                                                                                    |
| 50                    | S_HSYNC         | I/O          | Video Horizontal Sync Control Signal for SD Only.                                                                                                                  |
| 13, 12,<br>9 to 2     | Y9 to Y0        | I            | SD or PS/HDTV Input Port for Y Data. Input port for interleaved progressive scan data. The LSB is set up on Pin Y0. For 8-bit data input, LSB is set up on Pin Y2. |
| 30 to 26,<br>18 to 14 | C9 to C0        | I            | PS/HDTV Input Port 4:4:4 Input Mode. This port is used for the Cb[Blue/U] data. The LSB is set up on Pin C0. For 8-bit data input, LSB is set up on Pin C2.        |

| Pin No.               | Mnemonic           | Input/Output | Description                                                                                                                                                                                                 |
|-----------------------|--------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 62 to 58,<br>55 to 51 | S9 to S0           | I            | SD or PS/HDTV Input Port for Cr[Red/V] Data in 4:4:4 Input Mode. LSB is set up on Pin S0. For 8-bit data input, LSB is set up on Pin S2.                                                                    |
| 33                    | RESET              | I            | This input resets the on-chip timing generator and sets the ADV7320/ADV7321 into default register setting. RESET is an active low signal.                                                                   |
| 47, 35                | RSET1, RSET2       | I            | A 3040 $\Omega$ resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.                                                                                  |
| 22                    | SCLK               | I            | I <sup>2</sup> C Port Serial Interface Clock Input.                                                                                                                                                         |
| 21                    | SDA                | I/O          | I <sup>2</sup> C Port Serial Data Input/Output.                                                                                                                                                             |
| 20                    | ALSB               | I            | TTL Address Input. This signal sets up the LSB of the I <sup>2</sup> C address. When this pin is tied low, the I <sup>2</sup> C filter is activated, which reduces noise on the I <sup>2</sup> C interface. |
| 1                     | V <sub>DD_IO</sub> | P            | Power Supply for Digital Inputs and Outputs.                                                                                                                                                                |
| 10, 56                | V <sub>DD</sub>    | P            | Digital Power Supply.                                                                                                                                                                                       |
| 41                    | V <sub>AA</sub>    | P            | Analog Power Supply.                                                                                                                                                                                        |
| 46                    | V <sub>REF</sub>   | I/O          | Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).                                                                                                                   |
| 34                    | EXT_LF             | I            | External Loop Filter for the Internal PLL.                                                                                                                                                                  |
| 31                    | RTC_SCR_TR         | I            | Multifunctional Input. Real-time control (RTC) input, timing reset input, subcarrier reset input.                                                                                                           |
| 19                    | I <sup>2</sup> C   | I            | This input pin must be tied high (V <sub>DD_IO</sub> ) for the ADV7320/ADV7321 to interface over the I <sup>2</sup> C port.                                                                                 |
| 64                    | GND_IO             |              | Digital Input/Output Ground.                                                                                                                                                                                |

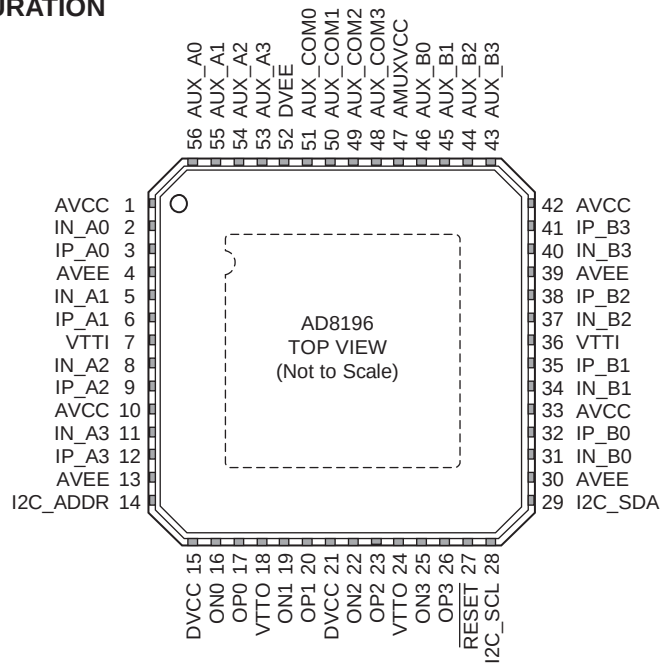
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -49

## Q8101 : AD8196 (HDMI/DVI Switch with Equalization)

### BLOCK DIAGRAM



### PIN CONFIGURATION



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -50

### Q8101 : AD8196 (HDMI/DVI Switch with Equalization)

#### TERMINAL DESCRIPTION

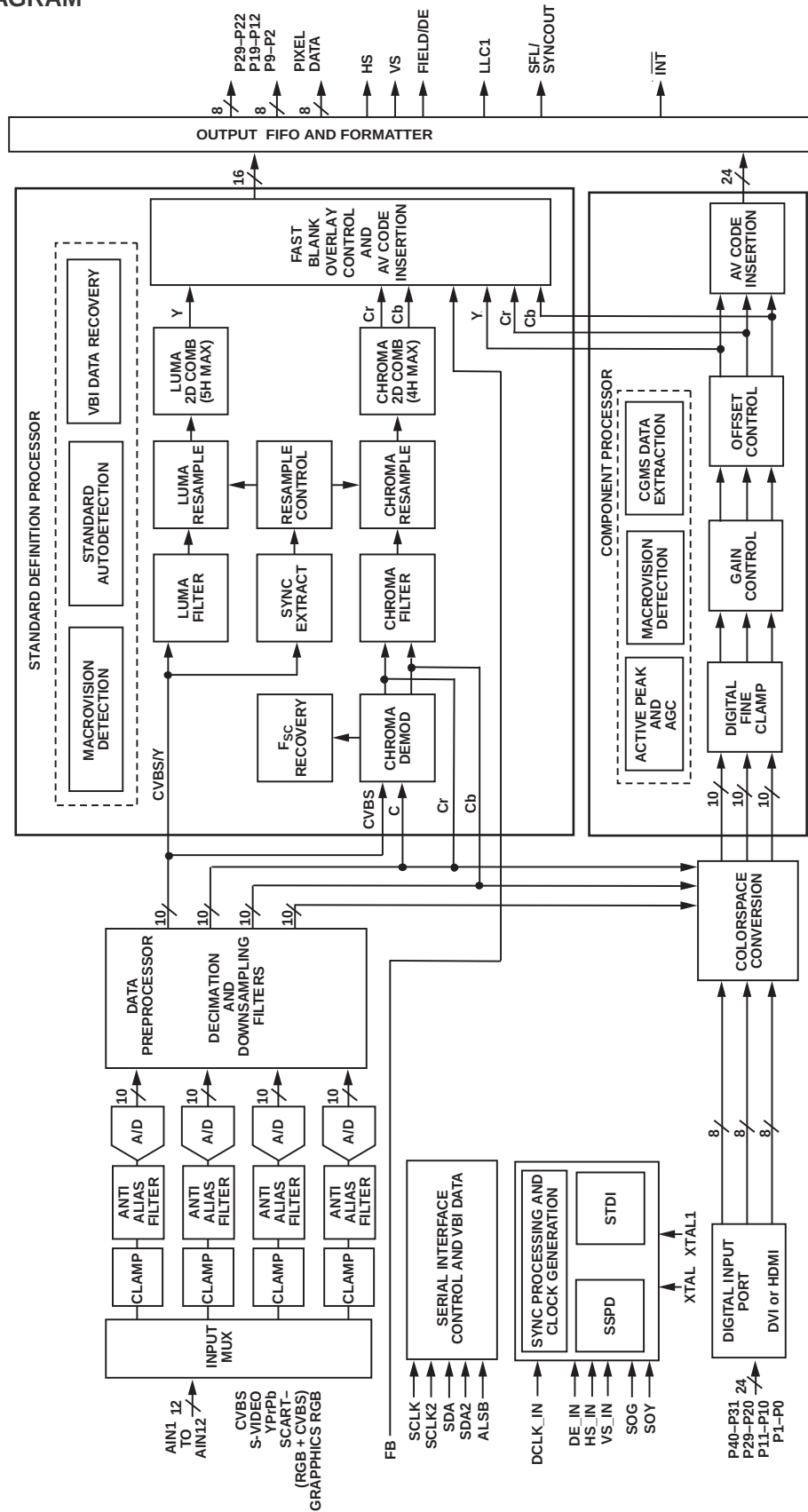
| Pin No.             | Mnemonic | Type    | Description                                                            |
|---------------------|----------|---------|------------------------------------------------------------------------|
| 1, 10, 33, 42       | AVCC     | Power   | Positive Analog Supply. 3.3 V nominal.                                 |
| 2                   | IN_A0    | HS I    | High Speed Input Complement.                                           |
| 3                   | IP_A0    | HS I    | High Speed Input.                                                      |
| 4, 13, 30, 39, ePAD | AVEE     | Power   | Negative Analog Supply. 0 V nominal.                                   |
| 5                   | IN_A1    | HS I    | High Speed Input Complement.                                           |
| 6                   | IP_A1    | HS I    | High Speed Input.                                                      |
| 7, 36               | VTTI     | Power   | Input Termination Supply. Nominally connected to AVCC.                 |
| 8                   | IN_A2    | HS I    | High Speed Input Complement.                                           |
| 9                   | IP_A2    | HS I    | High Speed Input.                                                      |
| 11                  | IN_A3    | HS I    | High Speed Input Complement.                                           |
| 12                  | IP_A3    | HS I    | High Speed Input.                                                      |
| 14                  | I2C_ADDR | Control | I <sup>2</sup> C Address LSB.                                          |
| 15, 21              | DVCC     | Power   | Positive Digital Power Supply. 3.3 V nominal.                          |
| 16                  | ON0      | HS O    | High Speed Output Complement.                                          |
| 17                  | OP0      | HS O    | High Speed Output.                                                     |
| 18, 24              | VTTO     | Power   | Output Termination Supply. Nominally connected to AVCC.                |
| 19                  | ON1      | HS O    | High Speed Output Complement.                                          |
| 20                  | OP1      | HS O    | High Speed Output.                                                     |
| 22                  | ON2      | HS O    | High Speed Output Complement.                                          |
| 23                  | OP2      | HS O    | High Speed Output.                                                     |
| 25                  | ON3      | HS O    | High Speed Output Complement.                                          |
| 26                  | OP3      | HS O    | High Speed Output.                                                     |
| 27                  | RESET    | Control | Configuration Registers Reset. This pin is normally pulled up to DVCC. |
| 28                  | I2C_SCL  | Control | I <sup>2</sup> C Clock.                                                |
| 29                  | I2C_SDA  | Control | I <sup>2</sup> C Data.                                                 |
| 31                  | IN_B0    | HS I    | High Speed Input Complement.                                           |
| 32                  | IP_B0    | HS I    | High Speed Input.                                                      |
| 34                  | IN_B1    | HS I    | High Speed Input Complement.                                           |
| 35                  | IP_B1    | HS I    | High Speed Input.                                                      |
| 37                  | IN_B2    | HS I    | High Speed Input Complement.                                           |
| 38                  | IP_B2    | HS I    | High Speed Input.                                                      |
| 40                  | IN_B3    | HS I    | High Speed Input Complement.                                           |
| 41                  | IP_B3    | HS I    | High Speed Input.                                                      |
| 43                  | AUX_B3   | LS I/O  | Low Speed Input/Output.                                                |
| 44                  | AUX_B2   | LS I/O  | Low Speed Input/Output.                                                |
| 45                  | AUX_B1   | LS I/O  | Low Speed Input/Output.                                                |
| 46                  | AUX_B0   | LS I/O  | Low Speed Input/Output.                                                |
| 47                  | AMUXVCC  | Power   | Positive Auxiliary Switch Supply. 5 V typical.                         |
| 48                  | AUX_COM3 | LS I/O  | Low Speed Common Input/Output.                                         |
| 49                  | AUX_COM2 | LS I/O  | Low Speed Common Input/Output.                                         |
| 50                  | AUX_COM1 | LS I/O  | Low Speed Common Input/Output.                                         |
| 51                  | AUX_COM0 | LS I/O  | Low Speed Common Input/Output.                                         |
| 52                  | DVEE     | Power   | Negative Digital and Auxiliary Switch Power Supply. 0 V nominal.       |
| 53                  | AUX_A3   | LS I/O  | Low Speed Input/Output.                                                |
| 54                  | AUX_A2   | LS I/O  | Low Speed Input/Output.                                                |
| 55                  | AUX_A1   | LS I/O  | Low Speed Input/Output.                                                |
| 56                  | AUX_A0   | LS I/O  | Low Speed Input/Output.                                                |

HS = high speed, LS = low speed, I = input, O = output.

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -51

## Q8800: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

### BLOCK DIAGRAM

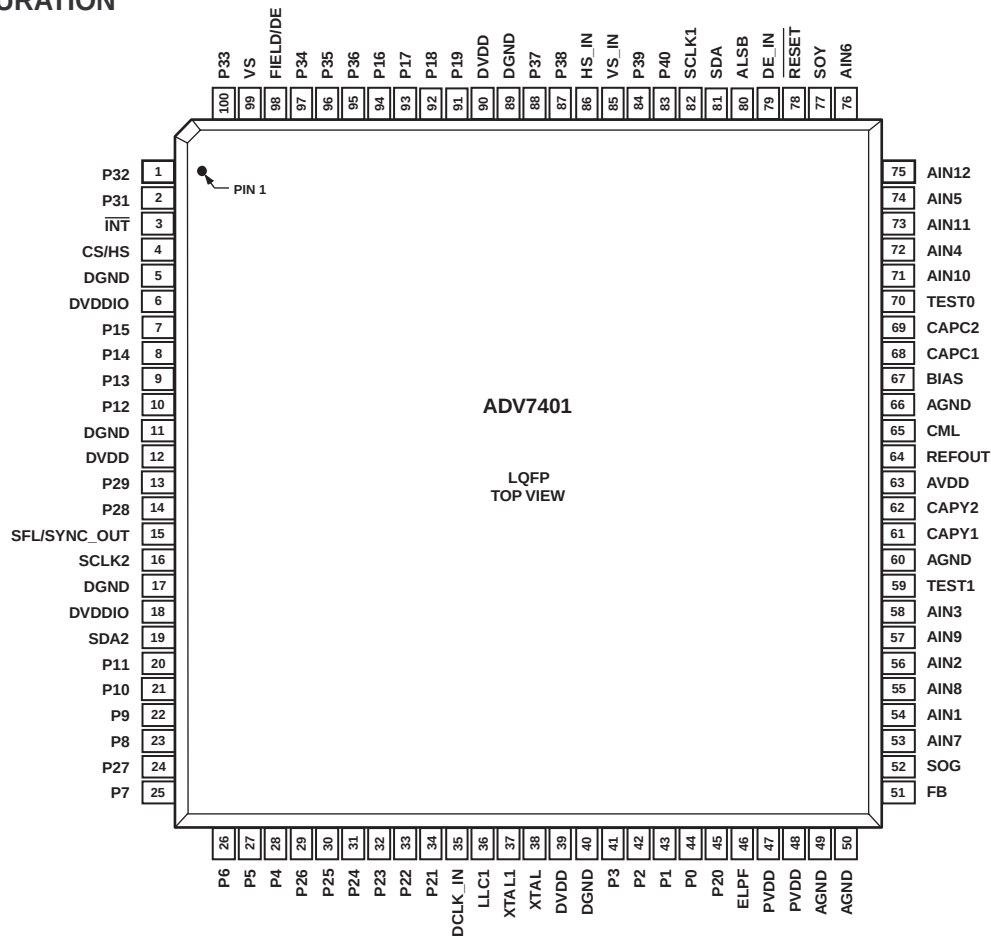




# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -52

## Q8800: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

### PIN CONFIGURATION



### TERMINAL DESCRIPTION(1/3)

| Pin No.                                                     | Mnemonic       | Type | Function                                                                             |
|-------------------------------------------------------------|----------------|------|--------------------------------------------------------------------------------------|
| 5, 11, 17, 40, 89                                           | DGND G         |      | Digital ground                                                                       |
| 49, 50, 60, 66                                              | AGND G         |      | Analog ground                                                                        |
| 6, 18                                                       | DVDDIO         | P    | Digital I/O supply voltage (3.3 V).                                                  |
| 12, 39, 90                                                  | DVDD           | P    | Digital core supply voltage (1.8 V).                                                 |
| 63                                                          | AVDD           | P    | Analog supply voltage (3.3 V).                                                       |
| 47, 48                                                      | PVDD           | P    | PLL supply voltage (1.8 V).                                                          |
| 51                                                          | FB             | I    | FB is a fast switch overlay input that switches between CVBS and RGB analog signals. |
| 54, 56, 58, 72, 74, 76, 53, 55, 57, 71, 73, 75              | AIN1–AIN12     | I    | Analog video input channels.                                                         |
| 42, 41, 28, 27, 26, 25, 23, 22, 10, 9, 8, 7, 94, 93, 92, 91 | P2–P9, P12–P19 | O    | Video pixel output port.                                                             |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -53

## Q8800: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

### TERMINAL DESCRIPTION (2/3)

| Pin No.                                                                      | Mnemonic                               | Type | Function                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------|----------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 33, 32, 31,<br>30, 29, 24,<br>14, 13                                         | P22-P29                                | I/O  | Video input/output port                                                                                                                                                                                                                                                                                                                                      |
| 44, 43, 21,<br>20, 45, 34,<br>2, 1, 100,<br>97, 96, 95,<br>88, 87, 84,<br>83 | P0-P1, P10-P11,<br>P20-P21,<br>P31-P40 | I    | Video pixel input port.                                                                                                                                                                                                                                                                                                                                      |
| 3                                                                            | INT                                    | O    | Interrupt pin, can be active low or active high. When SDP/CP status bits change this pin will trigger. The set of events which will trigger an interrupt are under user control.                                                                                                                                                                             |
| 4                                                                            | HS/CS                                  | O    | HS is a horizontal synchronization output signal in SDP and CP modes. CS is a digital composite synchronization signal that can be selected while in CP mode.                                                                                                                                                                                                |
| 99                                                                           | VS                                     | O    | VS is a vertical synchronization output signal in SDP and CP modes.                                                                                                                                                                                                                                                                                          |
| 98                                                                           | FIELD/DE                               | O    | FIELD is a field synchronization output signal in all interlaced video modes. This pin also can be enabled as a DE (Data Enable) signal in CP mode to allow direct connection to a HDMI/DVI Tx IC.                                                                                                                                                           |
| 81, 19                                                                       | SDA1, SDA2                             | I/O  | I <sup>2</sup> C port serial data input/output pin, SDA1 is the data line for the Control port and SDA2 is the data line for the VBI readback port.                                                                                                                                                                                                          |
| 82, 16                                                                       | SCLK1,<br>SCLK2                        | I I  | I <sup>2</sup> C port serial clock input (max clock rate of 400 kHz). SCLK1 is the clock line for the Control port and SCLK2 is the clock line for the VBI data readback port.                                                                                                                                                                               |
| 80                                                                           | ALSB                                   | I    | This pin selects the I <sup>2</sup> C address for the ADV7401 Control and VBI readback ports. ALSB set to a logic 0 sets the address for a write to control port of 0x40 and the readback address for the VBI port of 0x21. ALSB set to a logic high sets the address for a write to control port of 0x42 and the readback address for the VBI port of 0x23. |
| 78                                                                           | RESET                                  | I    | System reset input, active low. A minimum low reset pulse width of 5 ms is required to reset the ADV7401 circuitry.                                                                                                                                                                                                                                          |
| 36                                                                           | LLC1                                   | O    | LLC1 is a line locked output clock for the pixel data (range is 12.825MHz to 140MHz for ADV7401KSTZ-140; 12.825MHz to 110MHz for ADV7401BSTZ-110; 12.825MHz to 80MHz for ADV7401BSTZ-80).                                                                                                                                                                    |
| 38                                                                           | XTAL                                   | I    | Input pin for 28.63636 MHz crystal, or can be overdriven by an external 3.3 V 28.63636 MHz clock oscillator source to clock the ADV7401.                                                                                                                                                                                                                     |
| 37                                                                           | XTAL1                                  | O    | This pin should be connected to the 28.63636 MHz crystal or left as a no connect if an external 3.3 V 28.63636 MHz clock oscillator source is used to clock the ADV7401. In crystal mode the crystal must be a fundamental crystal.                                                                                                                          |
| 46                                                                           | ELPF                                   | O    | The recommend external loop filter must be connected to this ELPF pin.                                                                                                                                                                                                                                                                                       |
| 70                                                                           | TEST0                                  |      | These pins should be left unconnected or alternatively tie to AGND                                                                                                                                                                                                                                                                                           |
| 59                                                                           | TEST1                                  | O    | These pins should be left unconnected                                                                                                                                                                                                                                                                                                                        |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -54

### Q8800: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

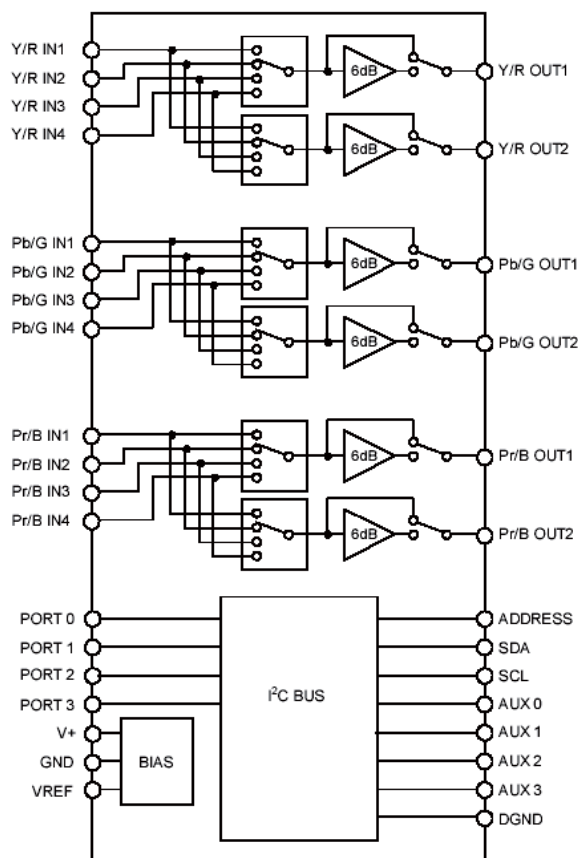
#### TERMINAL DESCRIPTION (3/3)

| Pin No. | Mnemonic     | Type | Function                                                                                                                                                                                                                                                                      |
|---------|--------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15      | SFL/SYNC_OUT | O    | SFL (Subcarrier Frequency Lock); this pin contains a serial output stream which can be used to lock the subcarrier frequency when this decoder is connected to any Analog Devices digital video encoder. SYNC_OUT is the sliced sync output signal only available in CP mode. |
| 64      | REFOUT       | O    | Internal voltage reference output.                                                                                                                                                                                                                                            |
| 65      | CML          | O    | The CML pin is a common-mode level for the internal ADCs.                                                                                                                                                                                                                     |
| 61, 62  | CAPY1–CAPY2  | I    | ADC capacitor network.                                                                                                                                                                                                                                                        |
| 68, 69  | CAPC1–CAPC2  | I    | ADC capacitor network.                                                                                                                                                                                                                                                        |
| 67      | BIAS         | O    | BIAS is an external bias setting pin. Connect the recommended resistor (1.35k $\Omega$ ) between pin and ground.                                                                                                                                                              |
| 86      | HS_IN/CS_IN  | I    | Can be configured in CP mode to be either a digital HS input signal or a digital CS input signal used to extract timing in a 5-wire or 4-wire RGB mode.                                                                                                                       |
| 85      | VS_IN        | I    | VS input signal used in CP mode for 5-wire timing mode.                                                                                                                                                                                                                       |
| 79      | DE_IN        | I    | DE_IN is a data enable input signal used in 24-bit digital input port mode, for example, 24-bit RGB data from a DVI Rx IC.                                                                                                                                                    |
| 35      | DCLK_IN      | I    | DCLK_IN is a clock input signal used in 24-bit digital input mode (e.g. 24-bit RGB data from a DVI Rx IC) and also in digital CVBS input mode.                                                                                                                                |
| 52      | SOG          | I    | SOG is a sync on green input used in embedded sync mode.                                                                                                                                                                                                                      |
| 77      | SOY          | I    | SOY is a sync on luma input used in embedded sync mode.                                                                                                                                                                                                                       |

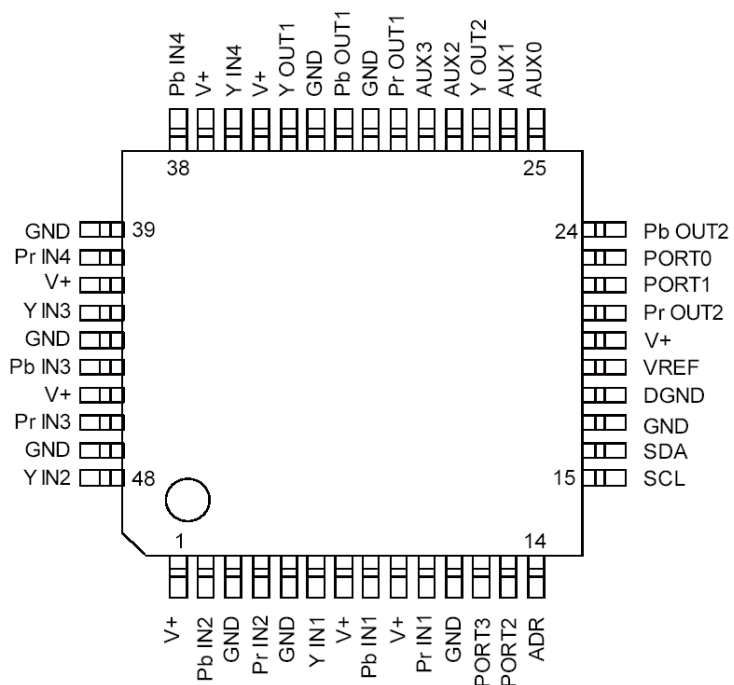
# IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS -55

Q2201: NJW1321FP1 (Video Switch, 100MHz)

## BLOCK DIAGRAM



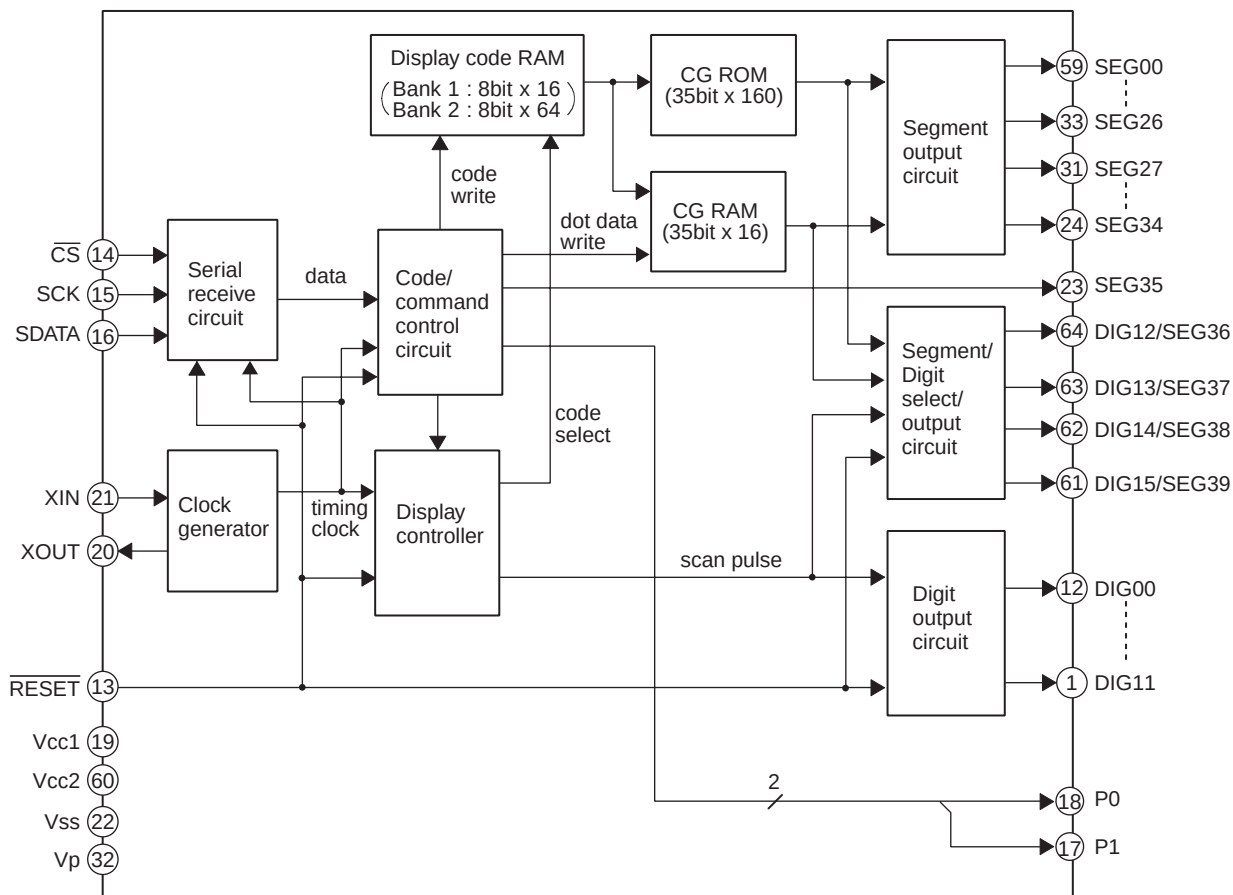
## PIN CONFIGURATION



# IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS -56

## Q7501, Q7502: M66005-0001AHP (FL Tube Driver)

### BLOCK DIAGRAM



### TERMINAL DESCRIPTION

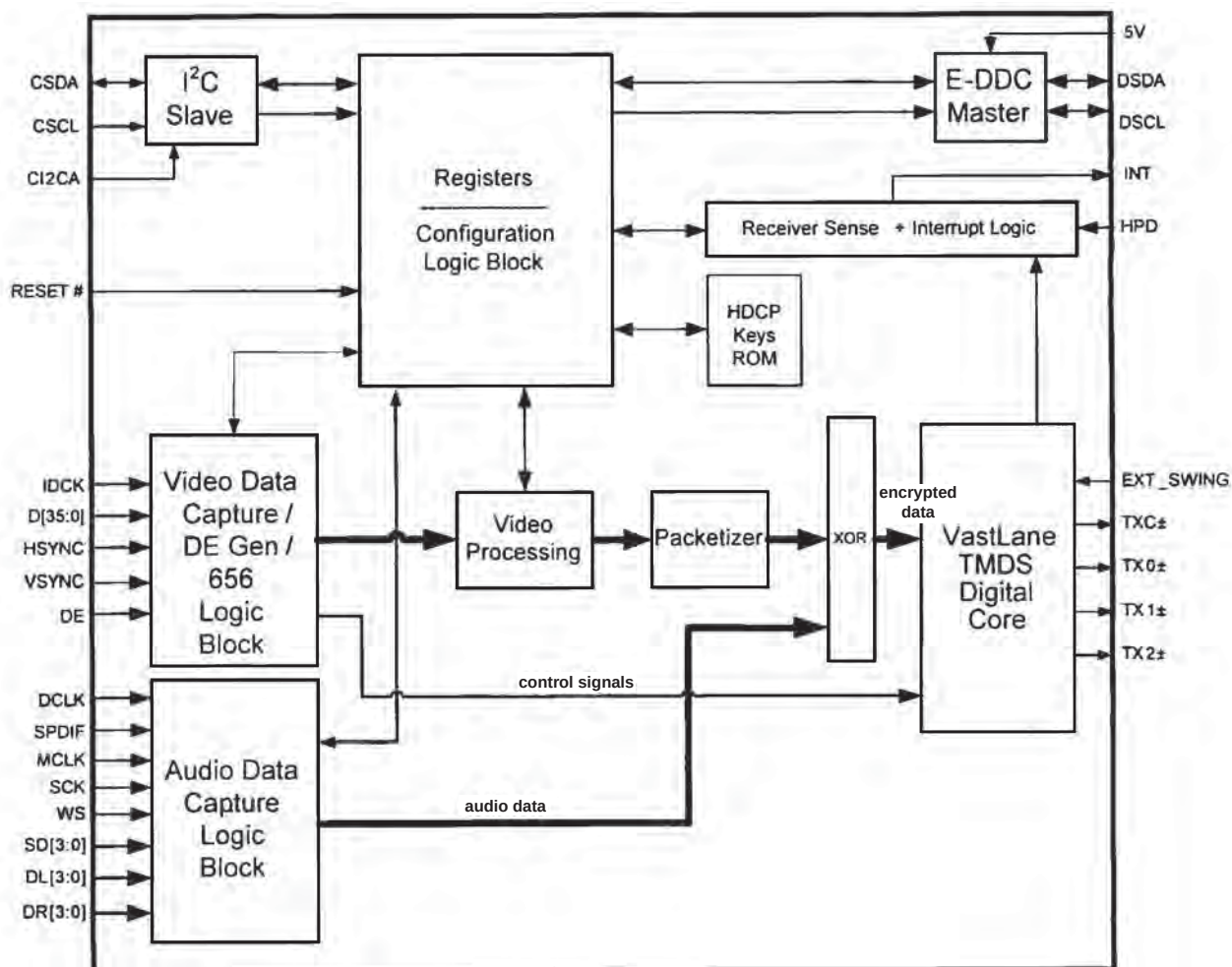
| PIN NO.        | SYMBOL        | PIN NAME                    | DESCRIPTION                                                                                       |
|----------------|---------------|-----------------------------|---------------------------------------------------------------------------------------------------|
| 13             | RESET         | Reset input                 | This pin is used to initialize the internal state of the M66004.                                  |
| 14             | CS            | Chip select input           | "L" : Communication with the MCU is possible.<br>"H" : Any instruction from the MCU is neglected. |
| 15             | SCK           | Shift clock input           | At the rising edge from "L" to "H", input data is shifted.                                        |
| 16             | SDATA         | Serial data input           | Character code or command data to display is input from MSB.                                      |
| 21, 20         | XIN, XOUT     | Clock input<br>Clock output | This pin is used to connect a resister and a capacitor externally to set oscillation frequency.   |
| 1~12<br>61~64  | DIG00 ~ DIG15 | Digit output                | These pins are used to connect to digit pins of VFD.                                              |
| 23~31<br>33~59 | SEG00 ~ SEG39 | Segment output              | These pins are used to connect to segment pins of VFD.                                            |
| 17, 18         | P0, P1        |                             | Output port (static operation)                                                                    |
| 19             | VCC1          |                             | Positive power supply for internal logic.                                                         |
| 60             | VCC2          |                             | Positive power supply for high-pressure-resistant output port.                                    |
| 22             | VSS           |                             | GND                                                                                               |
| 32             | VP            |                             | Negative power supply for VFD drive.                                                              |



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -57

## Q8401, Q8451: SII9134CTU (HDMI TRANSMITTER)

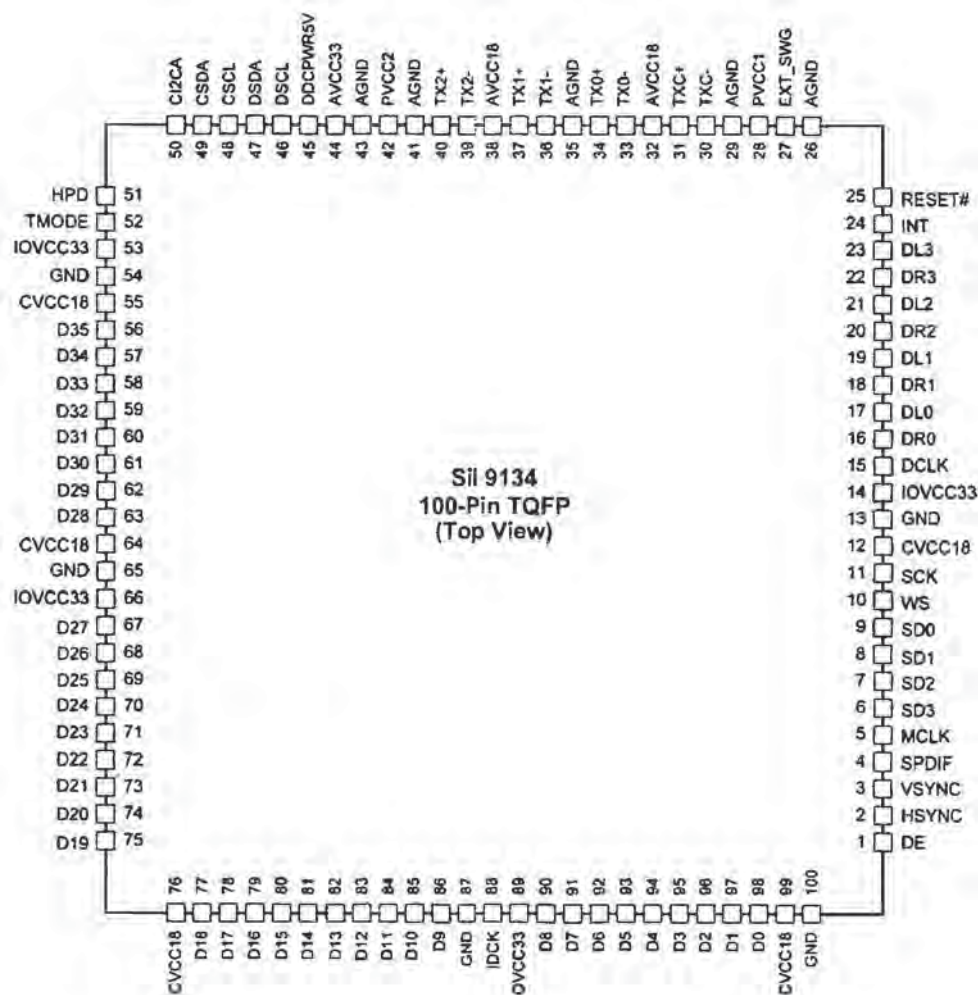
### BLOCK DIAGRAM



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -58

## Q8401, Q8451: SII9134CTU (HDMI TRANSMITTER)

### PIN CONFIGURATION



### TERMINAL DESCRIPTION(1/3)

#### Configuration/Programing Pins

| Pin Name | Pin # | Type  | Dir    | Description                                             |
|----------|-------|-------|--------|---------------------------------------------------------|
| HPD      | 51    | LVTTL | Input  | Hot Plug Detect Input                                   |
| RSVDL    | 52    | LVTTL | Input  | Reserved for use by Silicon Image and must be tied LOW. |
| INT      | 24    | LVTTL | Output | Interrupt Output.                                       |

#### Control Pins

| Pin Name | Pin # | Type                   | Dir   | Description                                          |
|----------|-------|------------------------|-------|------------------------------------------------------|
| CI2CA    | 50    | LVTTL                  | Input | I <sup>2</sup> C device address select (see page 11) |
| RESET#   | 25    | LVTTL<br>Schmitt       | Input | Reset Pin (Active LOW)<br>5V Tolerant                |
| CSCL     | 48    | Schmitt                | Input | I <sup>2</sup> C Clock                               |
| CSDA     | 49    | Schmitt-<br>Open Drain | Bi-Di | I <sup>2</sup> C Data (Open drain output.)           |
| DSCL     | 46    | Schmitt-<br>Open Drain | Bi-Di | DDC Clock (Open Drain Output)                        |
| DSDA     | 47    | Schmitt-<br>Open Drain | Bi-Di | DDC Data (Open drain output.)                        |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -59

## Q8401, Q8451: SII9134CTU (HDMI TRANSMITTER)

### TERMINAL DESCRIPTION(2/3)

#### Video and Audio Pins-1

| Pin Name | Pin # | Type  | Dir   | Description                                                                                                                                                                                     |
|----------|-------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D0       | 98    | LVTTL | Input | These are the lower 12 bits of the 36-bit pixel bus. These pins are highly configurable, and support multiple RGB and YCbCr formats. See Data Bus Mappings on page 30 for complete information. |
| D1       | 97    | LVTTL | Input |                                                                                                                                                                                                 |
| D2       | 96    | LVTTL | Input |                                                                                                                                                                                                 |
| D3       | 95    | LVTTL | Input |                                                                                                                                                                                                 |
| D4       | 94    | LVTTL | Input |                                                                                                                                                                                                 |
| D5       | 93    | LVTTL | Input |                                                                                                                                                                                                 |
| D6       | 92    | LVTTL | Input |                                                                                                                                                                                                 |
| D7       | 91    | LVTTL | Input |                                                                                                                                                                                                 |
| D8       | 90    | LVTTL | Input |                                                                                                                                                                                                 |
| D9       | 86    | LVTTL | Input |                                                                                                                                                                                                 |
| D10      | 85    | LVTTL | Input |                                                                                                                                                                                                 |
| D11      | 84    | LVTTL | Input |                                                                                                                                                                                                 |
| D12      | 83    | LVTTL | Input | These are the middle 12 bits of the 36-bit pixel bus.                                                                                                                                           |
| D13      | 82    | LVTTL | Input |                                                                                                                                                                                                 |
| D14      | 81    | LVTTL | Input |                                                                                                                                                                                                 |
| D15      | 80    | LVTTL | Input |                                                                                                                                                                                                 |
| D16      | 79    | LVTTL | Input |                                                                                                                                                                                                 |
| D17      | 78    | LVTTL | Input |                                                                                                                                                                                                 |
| D18      | 77    | LVTTL | Input |                                                                                                                                                                                                 |
| D19      | 75    | LVTTL | Input |                                                                                                                                                                                                 |
| D20      | 74    | LVTTL | Input |                                                                                                                                                                                                 |
| D21      | 73    | LVTTL | Input |                                                                                                                                                                                                 |
| D22      | 72    | LVTTL | Input |                                                                                                                                                                                                 |
| D23      | 71    | LVTTL | Input | These are the upper 12 bits of the 36-bit pixel bus.                                                                                                                                            |
| D24      | 70    | LVTTL | Input |                                                                                                                                                                                                 |
| D25      | 69    | LVTTL | Input |                                                                                                                                                                                                 |
| D26      | 68    | LVTTL | Input |                                                                                                                                                                                                 |
| D27      | 67    | LVTTL | Input |                                                                                                                                                                                                 |
| D28      | 63    | LVTTL | Input |                                                                                                                                                                                                 |
| D29      | 62    | LVTTL | Input |                                                                                                                                                                                                 |
| D30      | 61    | LVTTL | Input |                                                                                                                                                                                                 |
| D31      | 60    | LVTTL | Input |                                                                                                                                                                                                 |
| D32      | 59    | LVTTL | Input |                                                                                                                                                                                                 |
| D33      | 58    | LVTTL | Input |                                                                                                                                                                                                 |
| D34      | 57    | LVTTL | Input |                                                                                                                                                                                                 |
| D35      | 56    | LVTTL | Input |                                                                                                                                                                                                 |

#### Power and Ground Pins

| Pin Name | Pin #              | Type   | Description                                                                                                      |
|----------|--------------------|--------|------------------------------------------------------------------------------------------------------------------|
| CVCC18   | 12, 55, 64, 76, 99 | Power  | Digital Core VCC. Connect to 1.8V supply.                                                                        |
| IOVCC33  | 14, 53, 66, 89     | Power  | IO Pin VCC. Connect to 3.3V supply.                                                                              |
| AVCC33   | 44                 | Power  | Analog VCC. Connect to 3.3V supply.                                                                              |
| AVCC18   | 32, 38,            | Power  | Analog VCC. Connect to 1.8V supply.                                                                              |
| AGND     | 26, 29, 35, 41,43  | Ground | Analog GND.                                                                                                      |
| PVCC1    | 28                 | Power  | TMDS Core PLL Power. Connect to 1.8V supply.                                                                     |
| PVCC2    | 42                 | Power  | Filter PLL Power. Connect to 1.8V supply.                                                                        |
| DDCPWR5V | 45                 | Power  | Power reference signal. Used to supply power to the DDC I2C pads when chip is powered off. Connect to 5V supply. |
| Gnd      | 13, 54, 65, 87,100 | Ground | Digital Ground                                                                                                   |



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -60

### Q8401, Q8451: SII9134CTU (HDMI TRANSMITTER)

#### TERMINAL DESCRIPTION(3/3)

##### Video and Audio Pins-2

| Pin Name | Pin # | Type  | Dir   | Description                          |
|----------|-------|-------|-------|--------------------------------------|
| IDCK     | 88    | LVTTL | Input | Input Data Clock                     |
| DE       | 1     | LVTTL | Input | Data enable                          |
| HSYNC    | 2     | LVTTL | Input | Horizontal Sync input control signal |
| VSYNC    | 3     | LVTTL | Input | Vertical Sync input control signal   |
| SCK      | 11    | LVTTL | Input | I <sup>2</sup> S Serial Clock        |
| WS       | 10    | LVTTL | Input | I <sup>2</sup> S Word Select         |
| SD0      | 9     | LVTTL | Input | I <sup>2</sup> S Serial Data         |
| SD1      | 8     | LVTTL | Input | I <sup>2</sup> S Serial Data         |
| SD2      | 7     | LVTTL | Input | I <sup>2</sup> S Serial Data         |
| SD3      | 6     | LVTTL | Input | I <sup>2</sup> S Serial Data         |
| DL0      | 17    | LVTTL | Input | One-bit Audio Data Left 0            |
| DR0      | 16    | LVTTL | Input | One-bit Audio Data Right 0           |
| DL1      | 19    | LVTTL | Input | One-bit Audio Data Left 1            |
| DR1      | 18    | LVTTL | Input | One-bit Audio Data Right 1           |
| DL2      | 21    | LVTTL | Input | One-bit Audio Data Left 2            |
| DR2      | 20    | LVTTL | Input | One-bit Audio Data Right 2           |
| DL3      | 23    | LVTTL | Input | One-bit Audio Data Left 3            |
| DR3      | 22    | LVTTL | Input | One-bit Audio Data Right 3           |
| DCLK     | 15    | LVTTL | Input | One-bit Audio Clock Input            |
| MCLK     | 5     | LVTTL | Input | Audio Input Master Clock             |
| SPDIF    | 4     | LVTTL | Input | S/PDIF Audio Input.                  |

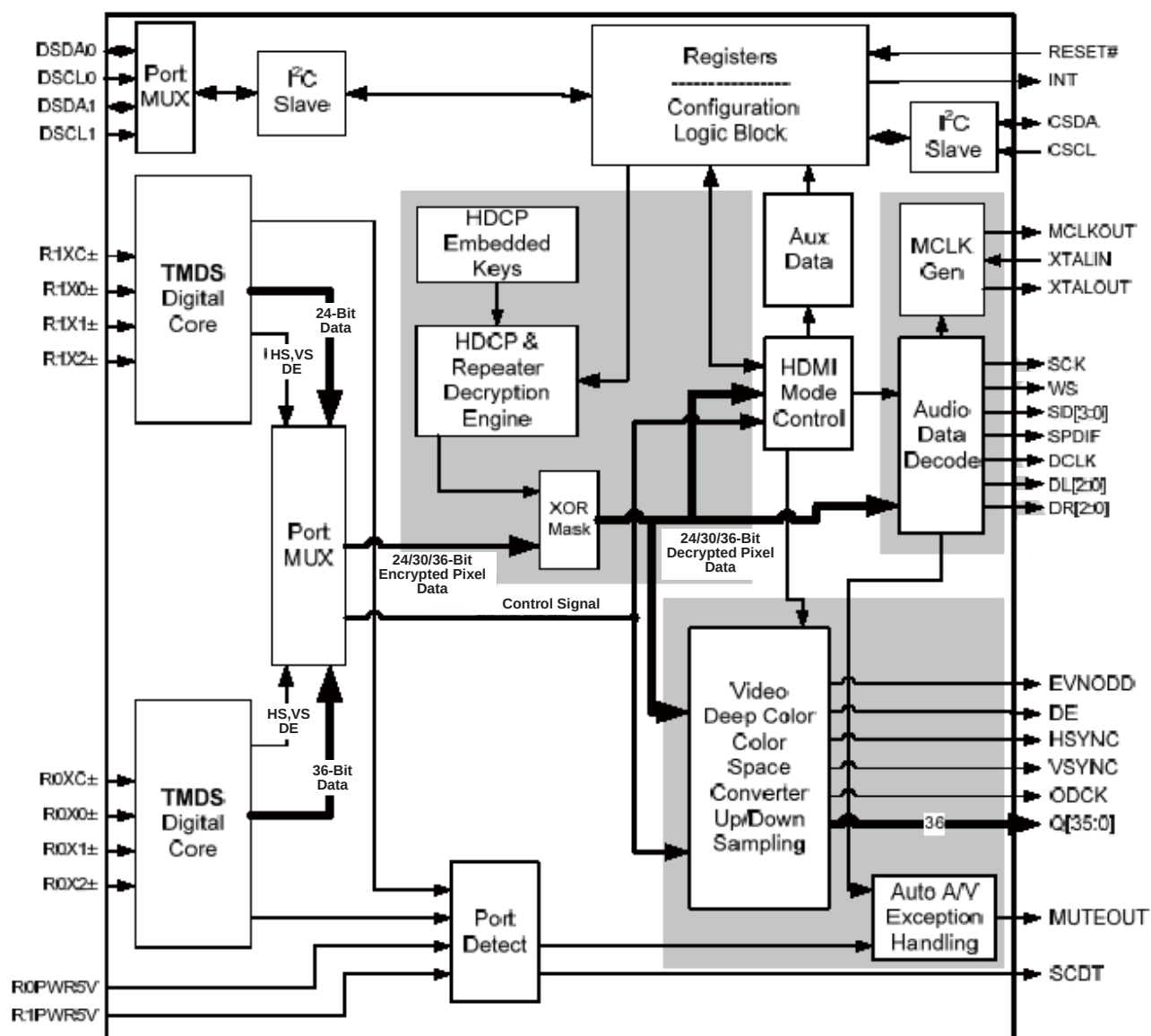
##### Differetial Signal Data Pins

| Pin Name  | Pin # | Type   | Dir    | Description                                                                                                                                                                                                                                                                |
|-----------|-------|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX0+      | 34    | TMDS   | Output | TMDS output data pairs.                                                                                                                                                                                                                                                    |
| TX0-      | 33    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| TX1+      | 37    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| TX1-      | 36    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| TX2+      | 40    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| TX2-      | 39    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| TXC+      | 31    | TMDS   | Output | TMDS output clock pair.                                                                                                                                                                                                                                                    |
| TXC-      | 30    | TMDS   | Output |                                                                                                                                                                                                                                                                            |
| EXT_SWING | 27    | Analog | Input  | Voltage Swing Adjust. A resistor is tied from this pin to AVCC. This resistor determines the amplitude of the voltage swing. Recommend 698 $\Omega$ 1% when source termination and leakage bias is on and 845 $\Omega$ 1% when source termination and leakage bias is off. |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -61

## Q8501: SII9135CTU (HDMI RECEIVER)

## BLOCK DIAGRAM

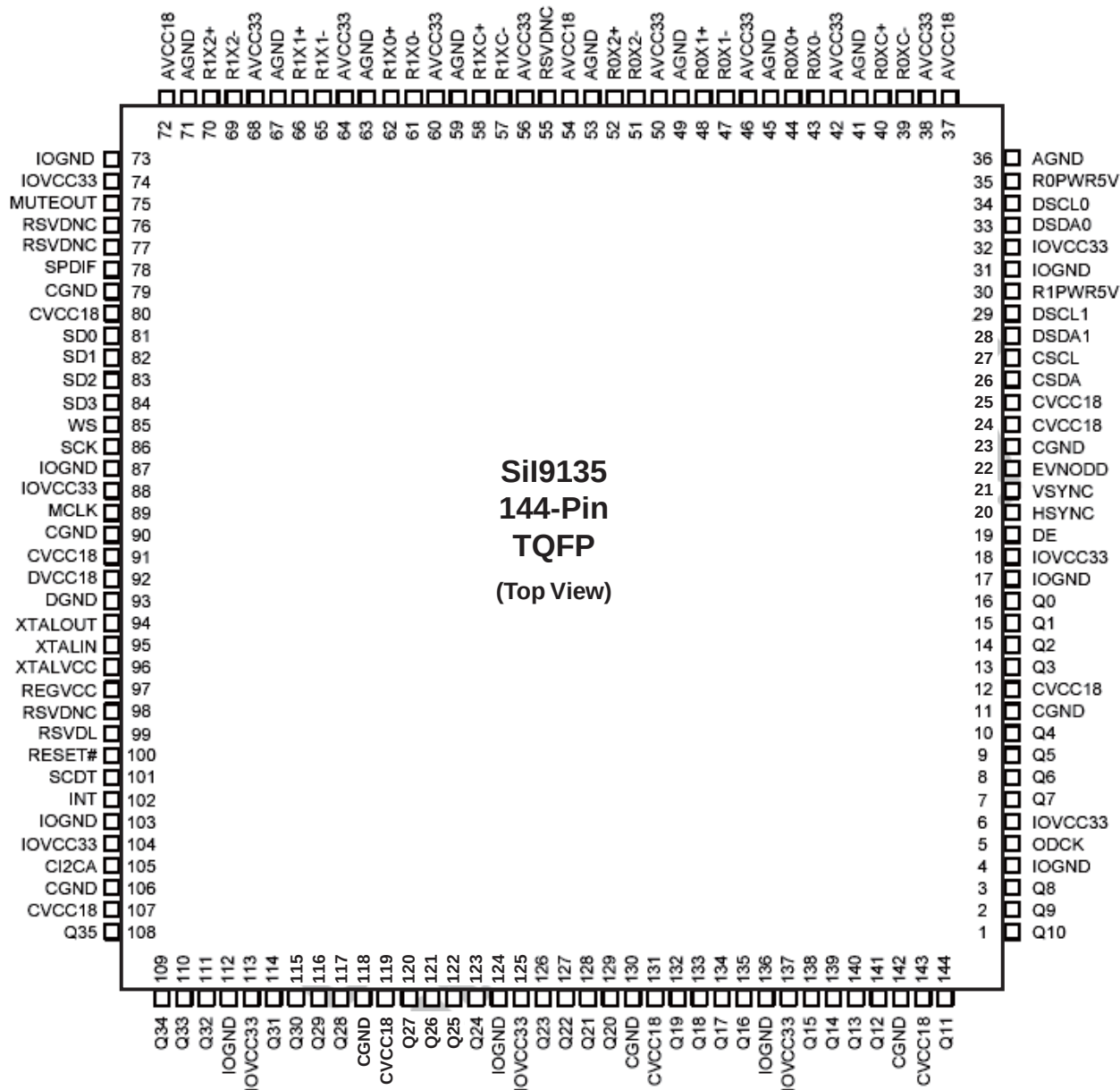




## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -62

### Q8501: SII9135CTU (HDMI RECEIVER)

## PIN CONFIGURATION



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -63

## Q8501: SII9135CTU (HDMI RECEIVER)

### TERMINAL DESCRIPTION(1/4)

#### Video and Audio Pins

| Pin Name | Pin # | Strength | Type  | Dir    | Description                                                                                                                                                                                                                                                                                                                                                              |
|----------|-------|----------|-------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q0       | 16    | 8 mA     | LVTTL | Output | 36-Bit Output Pixel Data Bus. Q35:0 is highly configurable using the VDD_CONFIG register. It supports a wide array of output formats, including multiple RGB and YCbCr bus formats. Using the appropriate bits in the PD register, the output drivers can be put into a high impedance (tri-state) mode. A weak, internal pull-down device brings each output to ground. |
| Q1       | 15    |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q2       | 14    |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q3       | 13    |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q4       | 10    |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q5       | 9     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q6       | 8     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q7       | 7     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q8       | 3     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q9       | 2     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q10      | 1     |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q11      | 144   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q12      | 141   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q13      | 140   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q14      | 139   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q15      | 138   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q16      | 135   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q17      | 134   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q18      | 133   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q19      | 132   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q20      | 129   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q21      | 128   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q22      | 127   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q23      | 126   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q24      | 123   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q25      | 122   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q26      | 121   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q27      | 120   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q28      | 117   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q29      | 116   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q30      | 115   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q31      | 114   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q32      | 111   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q33      | 110   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q34      | 109   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| Q35      | 108   |          | LVTTL | Output |                                                                                                                                                                                                                                                                                                                                                                          |
| DE       | 19    | 8 mA     | LVTTL | Output | Data Enable                                                                                                                                                                                                                                                                                                                                                              |
| HSYNC    | 20    | 8 mA     | LVTTL | Output | Horizontal Sync Output                                                                                                                                                                                                                                                                                                                                                   |
| VSNC     | 21    | 8 mA     | LVTTL | Output | Vertical Sync Output                                                                                                                                                                                                                                                                                                                                                     |
| EVNODD   | 22    | 8 mA     | LVTTL | Output | Indicates Even or Odd Field for Interlaced Formats                                                                                                                                                                                                                                                                                                                       |
| ODCK     | 5     | 12 mA    | LVTTL | Output | Output Data Clock                                                                                                                                                                                                                                                                                                                                                        |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -64

## Q8501: SII9135CTU (HDMI RECEIVER)

### TERMINAL DESCRIPTION(2/4)

#### Digital Audio Output Pins

| Pin Name  | Pin # | Strength | Type                    | Dir | Description                                                                                                                                                                                                  |
|-----------|-------|----------|-------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XTALIN    | 95    | ---      | 5V<br>Tolerant<br>LVTTL | In  | Crystal Clock Input. Also allows LVTTL input.<br>Frequency required: 26-28.5 MHz                                                                                                                             |
| XTALOUT   | 94    | 4 mA     | LVTTL                   | Out | Crystal Clock Output                                                                                                                                                                                         |
| MCLK      | 89    | 8 mA     | LVTTL                   | Out | Audio Master Clock Output                                                                                                                                                                                    |
| SCK/DCLK  | 86    | 4 mA     | LVTTL                   | Out | I2S Serial Clock Output.<br>DSD Clock Out.                                                                                                                                                                   |
| WS/DR0    | 85    | 4 mA     | LVTTL                   | Out | I2S Word Select Output.<br>DSD Serial Right Ch0 Data Output                                                                                                                                                  |
| SD0/DL0   | 81    | 4 mA     | LVTTL                   | Out | I2S Serial Data Output / DSD Audio Output<br>Configurable to be shared with DSD.<br>SD0 = DSD Serial Left Ch0 Data Output<br>SD1 = DSD Serial Right Ch1 Data Output<br>SD2 = DSD Serial Left Ch1 Data Output |
| SD1/DR1   | 82    | 4 mA     | LVTTL                   | Out |                                                                                                                                                                                                              |
| SD2/DL1   | 83    | 4 mA     | LVTTL                   | Out |                                                                                                                                                                                                              |
| SD3/DR2   | 84    | 4 mA     | LVTTL                   | Out |                                                                                                                                                                                                              |
| SPDIF/DL2 | 78    | 4 mA     | LVTTL                   | Out | S/PDIF Audio Output. Configurable to be<br>shared with DSD<br>DSD Serial Left Ch2 Data Output                                                                                                                |
| MUTEOUT   | 75    | 4 mA     | LVTTL                   | Out | Mute Audio Output. Signal to the external<br>downstream audio device, audio DAC, etc. to<br>downstream audio device, audio DAC, etc. to<br>mute audio output.                                                |

#### Differential Signal Data Pins

| Pin Name | Pin # | Type   | Description           |             |
|----------|-------|--------|-----------------------|-------------|
| R0XC+    | 40    | Analog | TMDS Input Clock Pair | HDMI Port 0 |
| R0XC-    | 39    | Analog |                       |             |
| R0X0+    | 44    | Analog | TMDS Input Data Pair  |             |
| R0X0-    | 43    | Analog |                       |             |
| R0X1+    | 48    | Analog | TMDS Input Data Pair  |             |
| R0X1-    | 47    | Analog |                       |             |
| R0X2+    | 52    | Analog | TMDS Input Data Pair  |             |
| R0X2-    | 51    | Analog |                       |             |
| R1XC+    | 58    | Analog | TMDS Input Clock Pair | HDMI Port 1 |
| R1XC-    | 57    | Analog |                       |             |
| R1X0+    | 62    | Analog | TMDS Input Data Pair  |             |
| R1X0-    | 61    | Analog |                       |             |
| R1X1+    | 66    | Analog | TMDS Input Data Pair  |             |
| R1X1-    | 65    | Analog |                       |             |
| R1X2+    | 70    | Analog | TMDS Input Data Pair  |             |
| R1X2-    | 69    | Analog |                       |             |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -65

### Q8501: SII9135CTU (HDMI RECEIVER)

#### TERMINAL DESCRIPTION(3/4)

##### Configuration/Programming Pins

| Pin Name | Pin #       | Strength | Type      | Dir   | Description                                                                                                                                                                                                                               |
|----------|-------------|----------|-----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INT      | 102         | 4 mA     | LVTTL     | Out   | Interrupt Output. Configurable polarity and pushpull output. Multiple sources of interrupt can be enabled through the INT_EN register. See Note 1.                                                                                        |
| RESET#   | 100         | ---      | Schmitt   | In    | Reset Pin. Active LOW. 5V Tolerant                                                                                                                                                                                                        |
| DSCL0    | 34          | ---      | SchmittOD | In    | DDC I2C Clock for Port 0. 5V Tolerant. HDCP KSV, An and Ri values are exchanged over an I2C port during authentication. True open drain, so does not pull to GND if R0PWR5V is not applied.                                               |
| DSDA0    | 33          | 3 mA     | SchmittOD | Bi-Di | DDC I2C Data for Port 0. 5V Tolerant. HDCP KSV, An and Ri values are exchanged over an I2C during authentication. True open drain, so does not pull to GND if R0PWR5V is not applied.                                                     |
| DSCL1    | 29          | ---      | SchmittOD | In    | DDC I2C Clock for Port 1. 5V Tolerant. 5V Tolerant. HDCP KSV, An and Ri values are exchanged over an I2C port during authentication. True open drain, so does not pull to GND if R1PWR5V is not applied.                                  |
| DSDA1    | 28          | 3 mA     | SchmittOD | Bi-Di | DDC I2C Data for Port 1. 5V Tolerant. 5V Tolerant. HDCP KSV, An and Ri values are exchanged over an I2C port during authentication. True open drain, so does not pull to GND if R1PWR5V is not applied.                                   |
| CSCL     | 27          | ---      | Schmitt   | In    | Configuration/Status I2C Clock. 5V Tolerant. Chip configuration/status, CEA-861 support and downstream HDCP repeater-specific registers are accessed via this I2C port. True open drain, so does not pull to GND if power is not applied. |
| CSDA     | 26          | 3 mA     | Schmitt   | Bi-Di | Configuration/Status I2C Data. 5V Tolerant. Chip configuration/status, CEA-861 support and downstream HDCP repeater-specific registers are accessed via this I2C port. True open drain, so does not pull to GND if power is not applied.  |
| CI2CA    | 105         |          | LLVTTL    | In    | Local I2C Address Select. 5V Tolerant. Low = Addresses 0x60/0x68<br>High = Addresses 0x62/0x6A                                                                                                                                            |
| SCDT     | 101         | 12 mA    | LLVTTL    | Out   | Indicates Active Video at HDMI Input Port. Sync detection indicator.                                                                                                                                                                      |
| R0PWR5V  | 35          | ---      | LLVTTL    | In    | Port 0 Transmitter Detect. 5V Tolerant. Used for MUTEIN function. See Note 2, 3.                                                                                                                                                          |
| R1PWR5V  | 30          | ---      | LLVTTL    | In    | Port 1 Transmitter Detect. 5V Tolerant. Used for MUTEIN function. See Note 2,3.                                                                                                                                                           |
| RSVDNC   | 98,77,76,55 |          |           |       | Reserved, must be left unconnected                                                                                                                                                                                                        |
| RSVDL    | 99          |          |           | In    | Reserved, must be tied to ground                                                                                                                                                                                                          |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -66

### Q8501: SII9135CTU (HDMI RECEIVER)

#### TERMINAL DESCRIPTION(4/4)

##### Power and Ground Pins

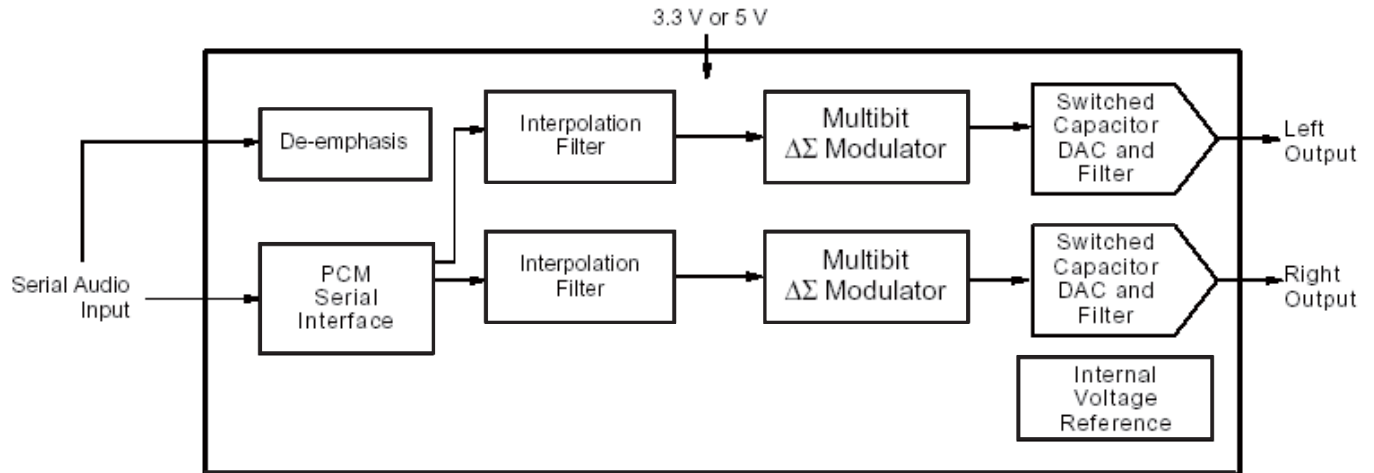
| Pin Name | Pin #                          | Type   | Description                                                                      | Supply |
|----------|--------------------------------|--------|----------------------------------------------------------------------------------|--------|
| CVCC18   | 12,24,25,80,91,107,119,131,143 | Power  | Digital Logic VCC                                                                | 1.8V   |
| CGND     | 11,23,79,90,106,118,130,142    | Ground | Digital Logic GND                                                                |        |
| IOVCC33  | 6,18,32,74,88,104,113,125,137  | Power  | Input/Output Pin VCC                                                             | 3.3V   |
| IOGND    | 4,17,31,73,87,103,112,124,136  | Ground | Input/Output Pin GND                                                             |        |
| AVCC33   | 38,42,46,50,56,60,64,68        | Power  | TMDS Analog VCC 3.3V                                                             | 3.3V   |
| AGND     | 36,41,45,49,53,59,63,67,71     | Ground | TMDS Analog GND                                                                  |        |
| AVCC18   | 37,54,72                       | Power  | TMDS Analog VCC 1.8V                                                             | 1.8V   |
| DVCC18   | 92                             | Power  | Audio Clock Regeneration PLL Analog VCC. Must be connected to 1.8V               | 1.8V   |
| DGND     | 93                             | Ground | Audio Clock Regeneration PLL Analog Ground                                       |        |
| XTALVCC  | 96                             | Power  | Audio Clock Regeneration PLL Crystal Oscillator Power. Must be connected to 3.3V | 3.3V   |
| REGVCC   | 97                             | Power  | Audio Clock Regeneration PLL Crystal Oscillator Power. Must be connected to 3.3V | 3.3V   |



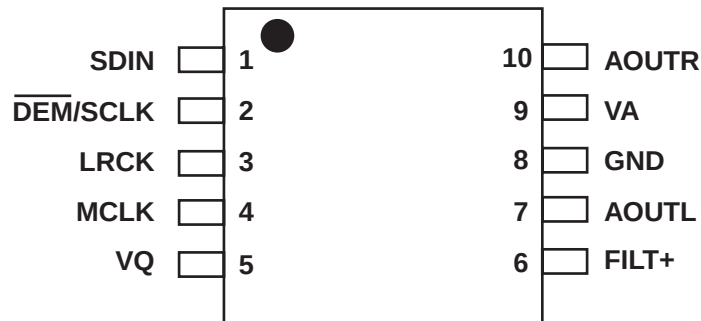
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -67

### Q101, Q4: CS4344-CZZR (24bit, 192kHz, Stereo, DAC)

#### BLOCK DIAGRAM



#### PIN CONFIGURATION



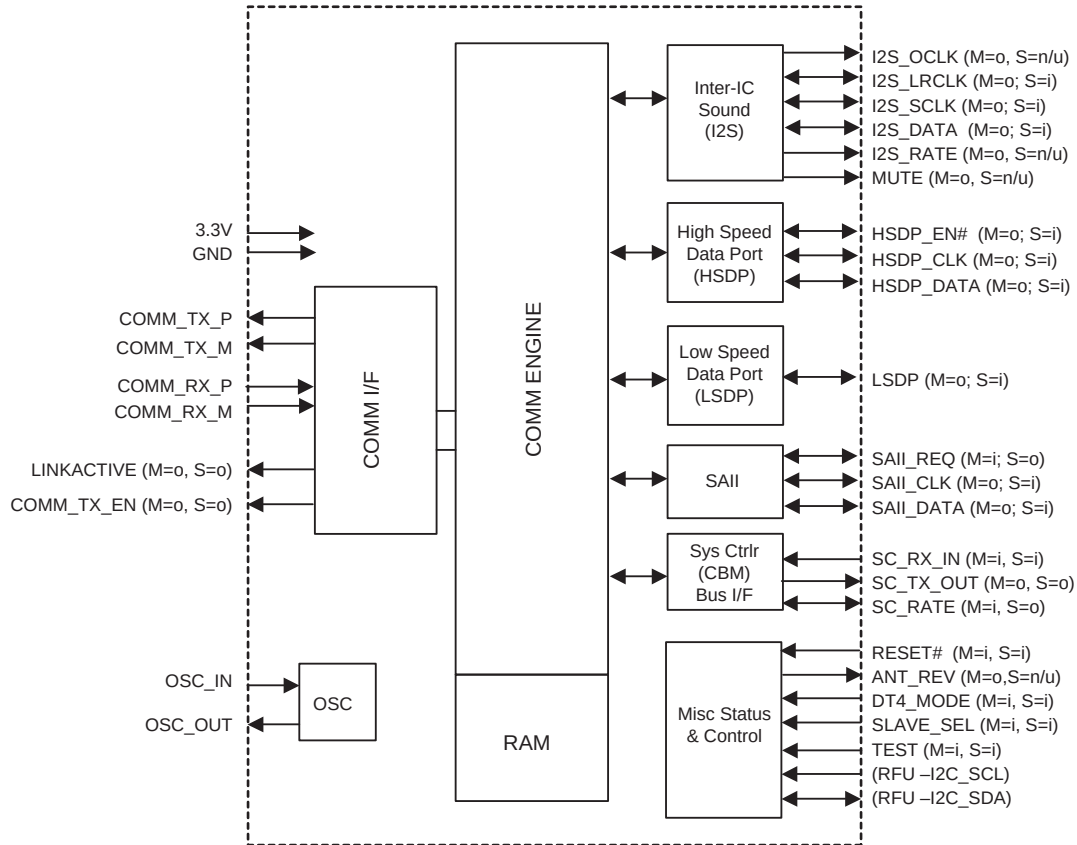
#### TERMINAL DESCRIPTION

| Pin Name | #  | Pin Description                                                                                                                                  |
|----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------|
| SDIN     | 1  | <b>Serial Audio Data Input (Input)</b> - Input for two's complement serial audio data.                                                           |
| DEM/SCLK | 2  | <b>De-Emphasis/External Serial Clock Input (Input)</b> - used for de-emphasis filter control or external serial clock input.                     |
| LRCK     | 3  | <b>Left Right Clock (Input)</b> - Determines which channel, Left or Right, is currently active on the serial audio data line.                    |
| MCLK     | 4  | <b>Master Clock (Input)</b> - Clock source for the delta-sigma modulator and digital filters.                                                    |
| VQ       | 5  | <b>Quiescent Voltage (Output)</b> - Filter connection for internal quiescent voltage.                                                            |
| FILT+    | 6  | <b>Positive Voltage Reference (Output)</b> - Positive reference voltage for the internal sampling circuits.                                      |
| AOUTL    | 7  | <b>Left Channel Analog Output (Output)</b> - The full scale analog output level is specified in the Analog Characteristics specification table.  |
| GND      | 8  | <b>Ground (Input)</b> - ground reference.                                                                                                        |
| VA       | 9  | <b>Analog Power (Input)</b> - Positive power for the analog and digital sections.                                                                |
| AOUTR    | 10 | <b>Right Channel Analog Output (Output)</b> - The full scale analog output level is specified in the Analog Characteristics specification table. |

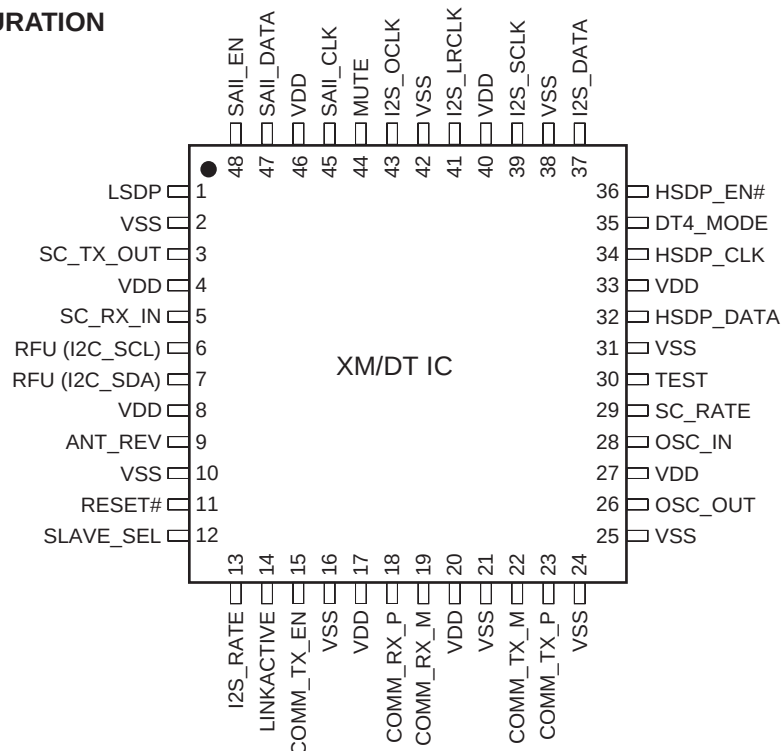
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -68

## Q103 : F2628E-01 (XM Digital Transceiver)

### BLOCK DIAGRAM



### PIN CONFIGURATION



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -69

### Q103 : F2628E-01 (XM Digital Transceiver)

#### TERMINAL DESCRIPTION(1/2)

| Pin No. | Pin Name                                          | Direction      | Function in Slave Mode                                                                                           | Function in Master Mode                                                            | Notes                         |
|---------|---------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|
| 1       | LSDP                                              | S=In<br>M=Out  | Low Speed Data Port Input                                                                                        | Low Speed Data Port Output                                                         | Out= 4mA, SLC<br>In=LVTTL S/T |
| 3       | SC_TX_OUT                                         | S=Out<br>M=Out | System Controller Bus (CBM)<br>Transmit Data Out                                                                 | System Controller Bus (CBM)<br>Transmit Data Out                                   | 4mA, SLC                      |
| 5       | SC_RX_IN                                          | S=In<br>M=In   | System Controller Bus (CBM)<br>Receive Data In                                                                   | System Controller Bus (CBM)<br>Receive Data In                                     | LVTTL S/T                     |
| 6       | RFU (I2C-SCL)                                     | S=In<br>M=In   | Reserved for Future Use (pull<br>down with a 100k resistor to<br>Ground)                                         | Reserved for Future Use (pull<br>down with a 100k resistor to<br>Ground)           | LVTTL S/T                     |
| 7       | RFU (I2C-SDA)                                     | S=In<br>M=In   | Reserved for Future Use (pull<br>down with a 100k resistor to<br>Ground)                                         | Reserved for Future Use (pull<br>down with a 100k resistor to<br>Ground)           | LVTTL S/T                     |
| 9       | ANT_REV                                           | S=n/u<br>M=Out | Not used in Slave mode, leave<br>unconnected                                                                     | Indication of incompatible<br>antenna ( refer to section<br>4.3.2 for usage)       | 4mA, SLC                      |
| 11      | RESET#                                            | S=In<br>M=In   | Asynchronous Reset In,<br>(Active Low)                                                                           | Asynchronous Reset In,<br>(Active Low)                                             | LVTTL S/T                     |
| 12      | SLAVE_SEL                                         | S=In<br>M=In   | Master/Slave Mode Select In<br>(High = Slave Mode)                                                               | Master/Slave Mode Select In<br>(Low = Master Mode)                                 | LVTTL S/T                     |
| 13      | I2S_RATE                                          | S=Out<br>M=Out | Output driven high, leave<br>unconnected                                                                         | Indicator of incoming I2S data<br>rate (see section 4.4.2)                         | 4mA, SLC                      |
| 14      | LINKACTIVE                                        | S=Out<br>M=Out | Link Active indicator (High =<br>DT bus link is active and data<br>is flowing)                                   | Link Active indicator (High =<br>DT bus link is active and data<br>is flowing)     | 4mA, SLC                      |
| 15      | COMM_TX_EN                                        | S=Out<br>M=Out | DT Comm Bus External<br>Transceiver Direction<br>Control Output (0=Tx, 1=Rx)                                     | DT Comm Bus External<br>Transceiver Direction<br>Control Output (0=Tx, 1=Rx)       | 4mA, SLC                      |
| 18      | COMM_RX_P                                         | S=In<br>M=In   | DT Differential Comm Bus<br>Internal Receiver Positive In                                                        | DT Differential Comm Bus<br>Internal Receiver Positive In                          | LVDS in+                      |
| 19      | COMM_RX_M                                         | S=In<br>M=In   | DT Differential Comm Bus<br>Internal Receiver Negative In                                                        | DT Differential Comm Bus<br>Internal Receiver Negative In                          | LVDS in-                      |
| 22      | COMM_TX_M                                         | S=Out<br>M=Out | DT Differential Comm Bus<br>Internal Transmitter Negative<br>Out                                                 | DT Differential Comm Bus<br>Internal Transmitter Negative<br>Out                   | LVDS out-                     |
| 23      | COMM_TX_P                                         | S=Out<br>M=Out | DT Differential Comm Bus<br>Internal Transmitter Positive<br>Out                                                 | DT Differential Comm Bus<br>Internal Transmitter Positive<br>Out                   | LVDS out+                     |
| 26      | OSC_OUT                                           | S=Out<br>M=Out | Crystal Driver Output                                                                                            | Crystal Driver Output                                                              |                               |
| 28      | OSC_IN                                            | S=In<br>M=In   | Crystal/ Ext. Clock Input                                                                                        | Crystal/ Ext. Clock Input                                                          |                               |
| 29      | SC_RATE<br>(Rev 4A only, pull<br>down for rev 3B) | S=Out<br>M=In  | SC interface baud rate Output<br>(High = DT4_MODE is high<br>and the Master DTIC is<br>operating at 115.2K baud) | SC interface baud rate select<br>Input<br>(High = 115.2K baud, Low =<br>9600 baud) | Out= 4mA, SLC<br>In=LVTTL S/T |
| 30      | TEST                                              | S=In<br>M=In   | Factory Test Mode Select<br>(1=Test, 0= Normal Oper.)                                                            | Factory Test Mode Select<br>(1=Test, 0= Normal Oper.)                              | LVTTL S/T                     |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -70

### Q103 : F2628E-01 (XM Digital Transceiver)

#### TERMINAL DESCRIPTION(2/2)

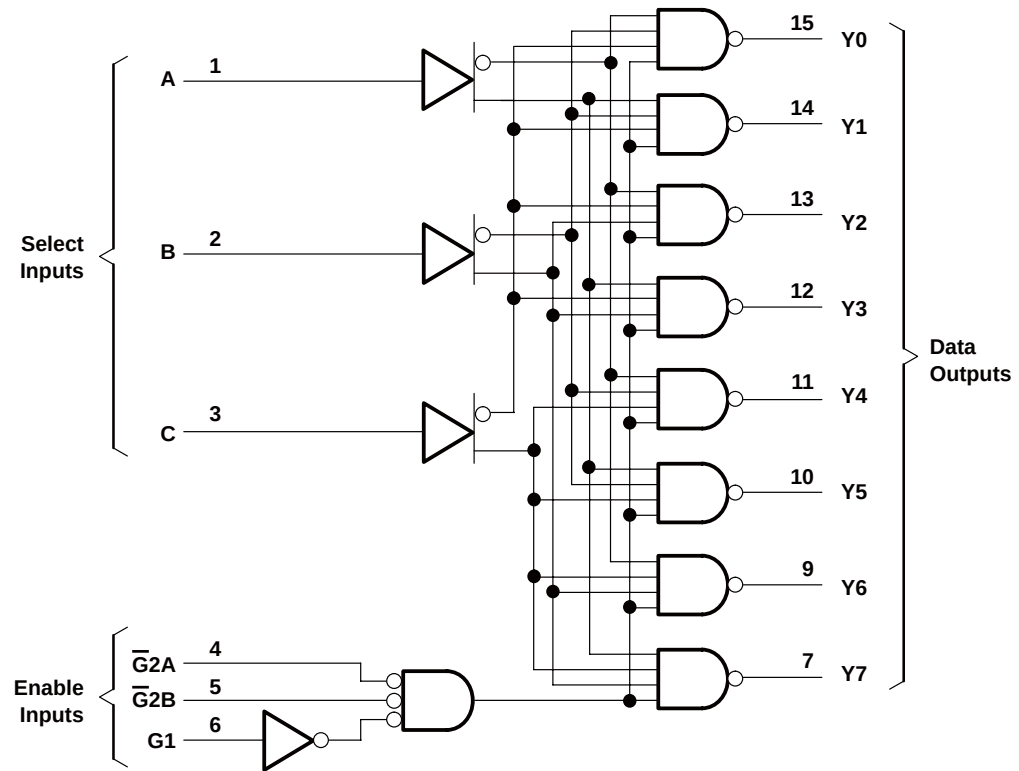
| Pin No. | Pin Name  | Direction      | Function in Slave Mode                                                                                   | Function in Master Mode                                                                                 | Notes                         |
|---------|-----------|----------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------|
| 32      | HSDP_DATA | S=In<br>M=Out  | High Speed Data Port Data Input                                                                          | High Speed Data Port Data Output                                                                        | Out= 4mA, SLC<br>In=LVTTL S/T |
| 34      | HSDP_CLK  | S=In<br>M=Out  | High Speed Data Port Clock Input                                                                         | High Speed Data Port Clock Output                                                                       | Out= 4mA, SLC<br>In=LVTTL S/T |
| 35      | DT4_MODE  | S=In<br>M=In   | Enables/Disables driver on SC_RATE and ANT_REV (High = enable driver) This pin was VSS on rev 3 XM/DT IC | Enables/Disables drivers on MUTE and ANT_REV (High = enable drivers) This pin was VSS on rev 3 XM/DT IC | In=LVTTL S/T                  |
| 36      | HSDP_EN#  | S=In<br>M=Out  | High Speed Data Port Enable Input (Active low)                                                           | High Speed Data Port Enable Output (Active low)                                                         | Out= 4mA, SLC<br>In=LVTTL S/T |
| 37      | I2S_DATA  | S=In<br>M=Out  | I2S Digital Audio Port Data In                                                                           | I2S Digital Audio Port Data Out                                                                         | Out= 4mA, SLC<br>In=LVTTL S/T |
| 39      | I2S_SCLK  | S=In<br>M=Out  | I2S Digital Audio Port Bit Clock In                                                                      | I2S Digital Audio Port Bit Clock Out                                                                    | Out= 4mA, SLC<br>In=LVTTL S/T |
| 41      | I2S_LRCLK | S=In<br>M=Out  | I2S Digital Audio Port Left/Right Clock In                                                               | I2S Digital Audio Port Left/Right Clock Out                                                             | Out= 4mA, SLC<br>In=LVTTL S/T |
| 43      | I2S_OCLK  | S=In<br>M=Out  | I2S Digital Audio Port Oversample Clock (not used, leave unconnected)                                    | I2S Digital Audio Port Oversample Clock Out                                                             | Out= 4mA, SLC                 |
| 44      | MUTE      | S=n/u<br>M=Out | Not used in Slave mode, leave unconnected                                                                | Provides a mechanism for muting the audio during an I2S rate change (High=mute)                         | Out= 4mA, SLC                 |
| 45      | SAII_CLK  | S=Out<br>M=In  | SAII Port Clock Output                                                                                   | SAII Port Clock Input                                                                                   | Out= 4mA, SLC<br>In=LVTTL S/T |
| 47      | SAII_DATA | S=Out<br>M=In  | SAII Port Data Output                                                                                    | SAII Port Data Input                                                                                    | Out= 4mA, SLC<br>In=LVTTL S/T |
| 48      | SAII_REQ  | S=In<br>M=Out  | SAII Port Request Input                                                                                  | SAII Port Request Output                                                                                | Out= 4mA, SLC<br>In=LVTTL S/T |

| Pin#                              | Pin Name | Type | Function in Slave Mode | Function in Master Mode | Notes |
|-----------------------------------|----------|------|------------------------|-------------------------|-------|
| 4, 8, 17, 20, 27, 33, 40, 46      | VDD      | PWR  | +3.3V Supply Voltage   | +3.3V Supply Voltage    |       |
| 2, 10, 16, 21, 24, 25, 31, 38, 42 | VSS      | GND  | Digital Ground         | Digital Ground          |       |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -71

## Q7172: TC74VHC138FT (3-8 Line Decoder)

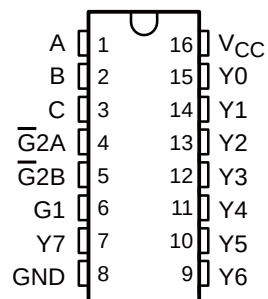
### BLOCK DIAGRAM



Logic Diagram

| ENABLE INPUTS |                  |                  | SELECT INPUTS |   |   | OUTPUTS |    |    |    |    |    |    |    |
|---------------|------------------|------------------|---------------|---|---|---------|----|----|----|----|----|----|----|
| G1            | $\overline{G2A}$ | $\overline{G2B}$ | C             | B | A | Y0      | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 |
| X             | H                | X                | X             | X | X | H       | H  | H  | H  | H  | H  | H  | H  |
| X             | X                | H                | X             | X | X | H       | H  | H  | H  | H  | H  | H  | H  |
| L             | X                | X                | X             | X | X | H       | H  | H  | H  | H  | H  | H  | H  |
| H             | L                | L                | L             | L | L | L       | H  | H  | H  | H  | H  | H  | H  |
| H             | L                | L                | L             | L | H | H       | L  | H  | H  | H  | H  | H  | H  |
| H             | L                | L                | L             | H | L | H       | H  | L  | H  | H  | H  | H  | H  |
| H             | L                | L                | L             | H | H | H       | H  | L  | H  | H  | H  | H  | H  |
| H             | L                | L                | H             | L | L | H       | H  | H  | H  | L  | H  | H  | H  |
| H             | L                | L                | H             | L | H | H       | H  | H  | H  | H  | L  | H  | H  |
| H             | L                | L                | H             | H | L | H       | H  | H  | H  | H  | H  | L  | H  |
| H             | L                | L                | H             | H | H | H       | H  | H  | H  | H  | H  | H  | L  |

### PIN CONFIGURATION

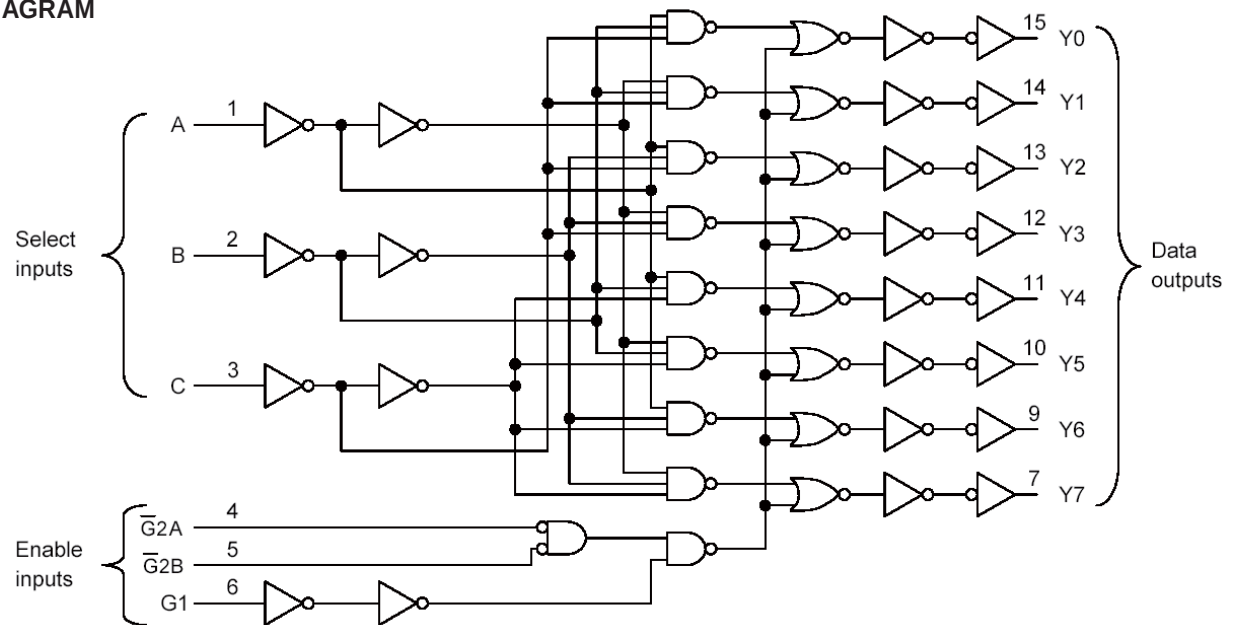




# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -72

## Q7171: TC74VHC238FT (3-8 Line Decoder)

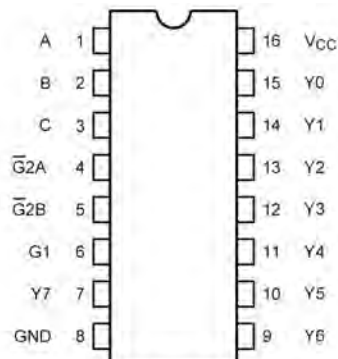
### BLOCK DIAGRAM



### Logic Diagram

| Inputs |                  |                  |        |   |   | Outputs |    |    |    |    |    |    |    | Selected Output |
|--------|------------------|------------------|--------|---|---|---------|----|----|----|----|----|----|----|-----------------|
| Enable |                  |                  | Select |   |   | Y0      | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 |                 |
| G1     | $\overline{G2A}$ | $\overline{G2B}$ | C      | B | A |         |    |    |    |    |    |    |    |                 |
| L      | X                | X                | X      | X | X | L       | L  | L  | L  | L  | L  | L  | L  | None            |
| X      | H                | X                | X      | X | X | L       | L  | L  | L  | L  | L  | L  | L  | None            |
| X      | X                | H                | X      | X | X | L       | L  | L  | L  | L  | L  | L  | L  | None            |
| H      | L                | L                | L      | L | L | H       | L  | L  | L  | L  | L  | L  | L  | Y0              |
| H      | L                | L                | L      | L | H | L       | H  | L  | L  | L  | L  | L  | L  | Y1              |
| H      | L                | L                | L      | H | L | L       | L  | H  | L  | L  | L  | L  | L  | Y2              |
| H      | L                | L                | L      | H | H | L       | L  | L  | H  | L  | L  | L  | L  | Y3              |
| H      | L                | L                | H      | L | L | L       | L  | L  | L  | H  | L  | L  | L  | Y4              |
| H      | L                | L                | H      | L | H | L       | L  | L  | L  | L  | H  | L  | L  | Y5              |
| H      | L                | L                | H      | H | L | L       | L  | L  | L  | L  | L  | H  | L  | Y6              |
| H      | L                | L                | H      | H | H | L       | L  | L  | L  | L  | L  | L  | H  | Y7              |

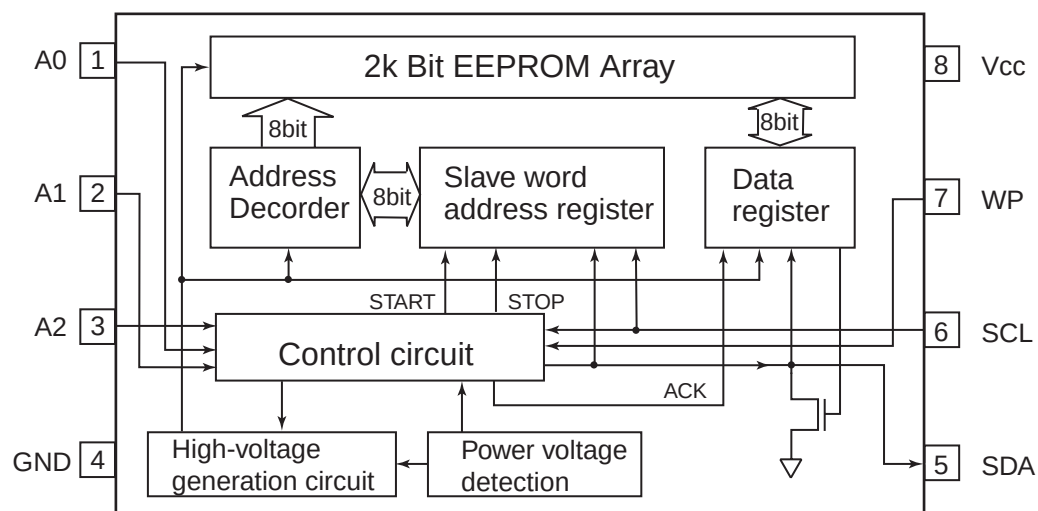
### PIN CONFIGURATION



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -73

### Q8105, Q8125, Q8155, Q8175: BR24L02FV-W(256x8 bit EEPROM)

#### BLOCK DIAGRAM AND PIN CONFIGURATION

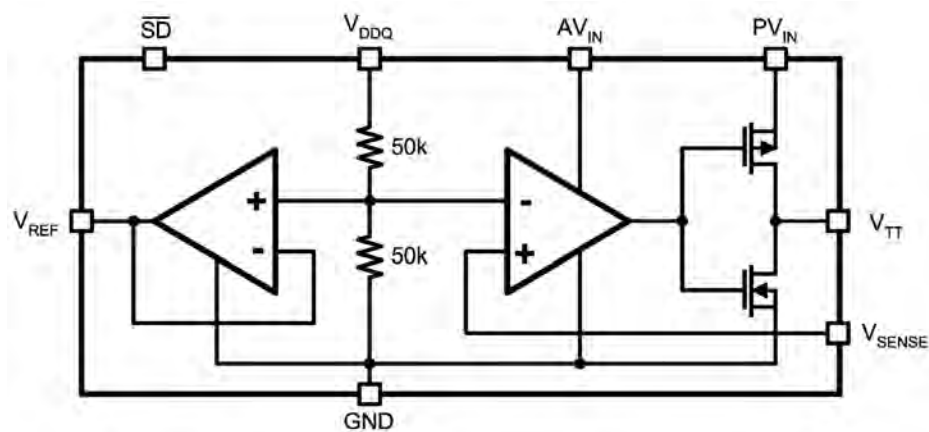


#### TERMINAL DESCRIPTION

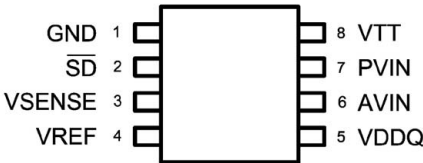
| Terminal | I/O | Function                                                |
|----------|-----|---------------------------------------------------------|
| Vcc      | -   | Apply a power source                                    |
| GND      | -   | Ground terminal                                         |
| A0,A1,A2 | I   | Slave address setting terminal                          |
| SCL      | I   | Serial clock input                                      |
| SDA      | I/O | Slave and word address.<br>Serial data input and output |
| WP       | I   | Write protect terminal                                  |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -74 U8067: LP2996MX (DDR-SDRAM Termination Regulator)

## BLOCK DIAGRAM



## PIN CONFIGURATION



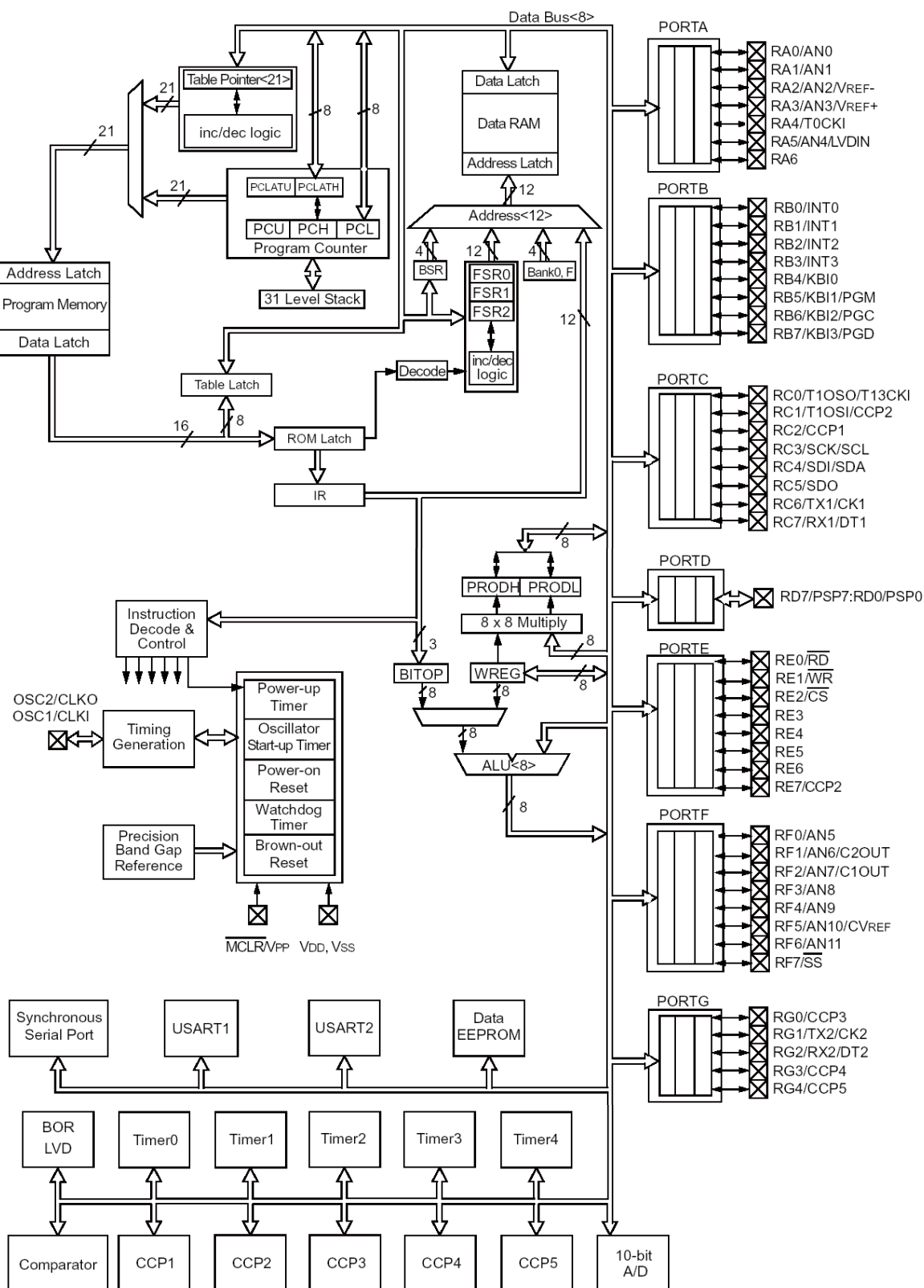
## TERMINAL DESCRIPTION

| PIN                           | DESCRIPTION                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AVIN AND PVIN</b>          | AVIN and PVIN are the input supply pins for the LP2996. AVIN is used to supply all the internal control circuitry.                                                                     |
| <b>VDDQ</b>                   | VDDQ is the input used to create the internal reference voltage for regulating $V_{TT}$ . The reference voltage is generated from a resistor divider of two internal 50 kohm resistor. |
| <b><math>V_{SENSE}</math></b> | The purpose of the sense pin is to provide improved remote load regulation.                                                                                                            |
| <b>SHUTDOWN</b>               | The LP2996 contains an active low shutdown pin that can be used to tri-state $V_{TT}$ .                                                                                                |
| <b><math>V_{REF}</math></b>   | $V_{REF}$ provides the buffered output of the internal reference voltage $V_{DDQ} / 2$ .                                                                                               |
| <b><math>V_{TT}</math></b>    | $V_{TT}$ is the regulated output that is used to terminate the bus resistors. It is capable of sinking and sourcing current while regulating the output precisely to $V_{DDQ} / 2$ .   |

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -75

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

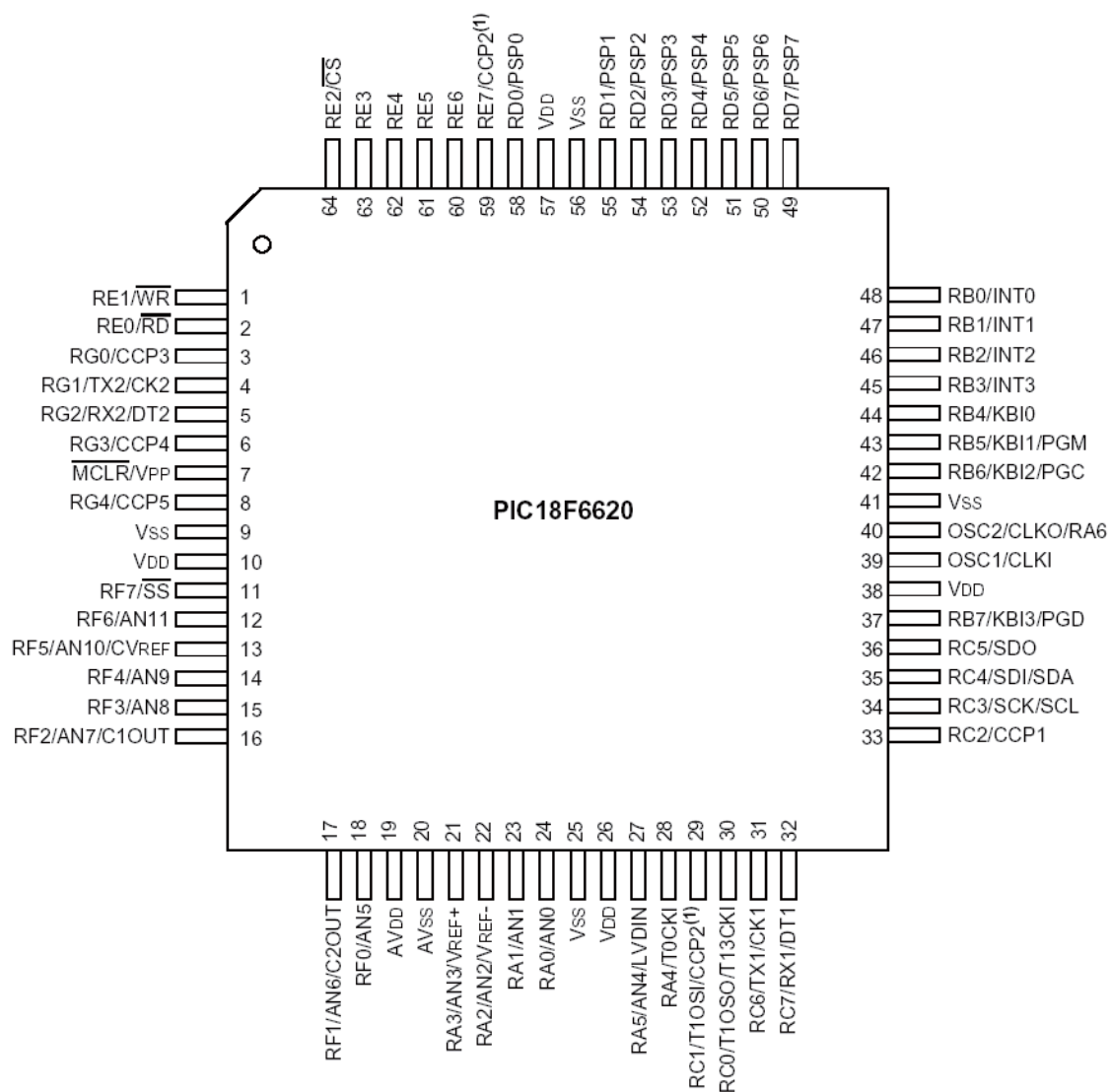
### BLOCK DIAGRAM



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -76

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### PIN CONFIGURATION





# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -77

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(1/8)

| Pin Name                                                                          | Pin Number |            | Pin Type                | Buffer Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------|------------|------------|-------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | PIC18F6X20 | PIC18F8X20 |                         |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| $\overline{\text{MCLR}}/\text{VPP}$<br>$\overline{\text{MCLR}}$<br>$\text{VPP}$   | 7          | 9          | I<br>P                  | ST                               | Master Clear (input) or programming voltage (output).<br>Master Clear (Reset) input. This pin is an active-low Reset to the device.<br>Programming voltage input.                                                                                                                                                                                                                                                                                                                                                                                          |
| OSC1/CLKI<br>OSC1<br><br>CLKI<br><br>OSC2/CLKO/RA6<br>OSC2<br><br>CLKO<br><br>RA6 | 39         | 49         | I<br>I<br>O<br>O<br>I/O | CMOS/ST<br>CMOS<br>—<br>—<br>TTL | Oscillator crystal or external clock input.<br>Oscillator crystal input or external clock source input. ST buffer when configured in RC mode; otherwise CMOS.<br>External clock source input. Always associated with pin function OSC1 (see OSC1/CLKI, OSC2/CLKO pins).<br>Oscillator crystal or clock output.<br>Oscillator crystal output.<br>Connects to crystal or resonator in Crystal Oscillator mode.<br>In RC mode, OSC2 pin outputs CLKO, which has 1/4 the frequency of OSC1 and denotes the instruction cycle rate.<br>General purpose I/O pin. |

**Legend:** TTL = TTL compatible input

ST = Schmitt Trigger input with CMOS levels

I = Input

P = Power

CMOS = CMOS compatible input or output

Analog = Analog input

O = Output

OD = Open-Drain (no P diode to VDD)

| Pin Name                                    | Pin Number |            | Pin Type      | Buffer Type             | Description                                                                                |
|---------------------------------------------|------------|------------|---------------|-------------------------|--------------------------------------------------------------------------------------------|
|                                             | PIC18F6X20 | PIC18F8X20 |               |                         |                                                                                            |
| RA0/AN0<br>RA0<br>AN0                       | 24         | 30         | I/O<br>I      | TTL<br>Analog           | PORTA is a bidirectional I/O port.<br>Digital I/O.<br>Analog input 0.                      |
| RA1/AN1<br>RA1<br>AN1                       | 23         | 29         | I/O<br>I      | TTL<br>Analog           | Digital I/O.<br>Analog input 1.                                                            |
| RA2/AN2/VREF-<br>RA2<br>AN2<br>VREF-        | 22         | 28         | I/O<br>I<br>I | TTL<br>Analog<br>Analog | Digital I/O.<br>Analog input 2.<br>A/D reference voltage (Low) input.                      |
| RA3/AN3/VREF+<br>RA3<br>AN3<br>VREF+        | 21         | 27         | I/O<br>I<br>I | TTL<br>Analog<br>Analog | Digital I/O.<br>Analog input 3.<br>A/D reference voltage (High) input.                     |
| RA4/T0CKI<br>RA4<br><br>T0CKI               | 28         | 34         | I/O<br>I      | ST/OD<br>ST             | Digital I/O – Open-drain when configured as output.<br>Timer0 external clock input.        |
| RA5/AN4/LVDIN<br>RA5<br>AN4<br>LVDIN<br>RA6 | 27         | 33         | I/O<br>I<br>I | TTL<br>Analog<br>Analog | Digital I/O.<br>Analog input 4.<br>Low-Voltage Detect input.<br>See the OSC2/CLKO/RA6 pin. |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -78

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(2/8)

| Pin Name                                            | Pin Number |            | Pin Type          | Buffer Type     | Description                                                                                                                                                |
|-----------------------------------------------------|------------|------------|-------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | PIC18F6X20 | PIC18F8X20 |                   |                 |                                                                                                                                                            |
| RB0/INT0<br>RB0<br>INT0                             | 48         | 58         | I/O<br>I          | TTL<br>ST       | PORTB is a bidirectional I/O port. PORTB can be software programmed for internal weak pull-ups on all inputs.<br><br>Digital I/O.<br>External interrupt 0. |
| RB1/INT1<br>RB1<br>INT1                             | 47         | 57         | I/O<br>I          | TTL<br>ST       | Digital I/O.<br>External interrupt 1.                                                                                                                      |
| RB2/INT2<br>RB2<br>INT2                             | 46         | 56         | I/O<br>I          | TTL<br>ST       | Digital I/O.<br>External interrupt 2.                                                                                                                      |
| RB3/INT3/CCP2<br>RB3<br>INT3<br>CCP2 <sup>(1)</sup> | 45         | 55         | I/O<br>I/O<br>I/O | TTL<br>ST<br>ST | Digital I/O.<br>External interrupt 3.<br>Capture2 input, Compare2 output, PWM2 output.                                                                     |
| RB4/KBI0<br>RB4<br>KBI0                             | 44         | 54         | I/O<br>I          | TTL<br>ST       | Digital I/O.<br>Interrupt-on-change pin.                                                                                                                   |
| RB5/KBI1/PGM<br>RB5<br>KBI1<br>PGM                  | 43         | 53         | I/O<br>I<br>I/O   | TTL<br>ST<br>ST | Digital I/O.<br>Interrupt-on-change pin.<br>Low-Voltage ICSP Programming enable pin.                                                                       |
| RB6/KBI2/PGC<br>RB6<br>KBI2<br>PGC                  | 42         | 52         | I/O<br>I<br>I/O   | TTL<br>ST<br>ST | Digital I/O.<br>Interrupt-on-change pin.<br>In-Circuit Debugger and ICSP programming clock.                                                                |
| RB7/KBI3/PGD<br>RB7<br>KBI3<br>PGD                  | 37         | 47         | I/O<br>I/O        | TTL<br>ST       | Digital I/O.<br>Interrupt-on-change pin.<br>In-Circuit Debugger and ICSP programming data.                                                                 |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -79

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(3/8)

| Pin Name            | Pin Number |            | Pin Type | Buffer Type | Description                                                                                                                                   |
|---------------------|------------|------------|----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                     | PIC18F6X20 | PIC18F8X20 |          |             |                                                                                                                                               |
| RC0/T1OSO/T13CKI    | 30         | 36         | I/O      | ST          | PORTC is a bidirectional I/O port.<br><br>Digital I/O.<br>Timer1 oscillator output.<br>Timer1/Timer3 external clock input.                    |
| RC0                 |            |            | O        | —           |                                                                                                                                               |
| T1OSO               |            |            | I        | ST          |                                                                                                                                               |
| T13CKI              |            |            |          |             |                                                                                                                                               |
| RC1/T1OSI/CCP2      | 29         | 35         | I/O      | ST          | Digital I/O.<br>Timer1 oscillator input.<br>Capture2 input/Compare2 output/<br>PWM2 output.                                                   |
| RC1                 |            |            | I        | CMOS        |                                                                                                                                               |
| T1OSI               |            |            | I/O      | ST          |                                                                                                                                               |
| CCP2 <sup>(2)</sup> |            |            |          |             |                                                                                                                                               |
| RC2/CCP1            | 33         | 43         | I/O      | ST          | Digital I/O.<br>Capture1 input/Compare1 output/<br>PWM1 output.                                                                               |
| RC2                 |            |            | I/O      | ST          |                                                                                                                                               |
| CCP1                |            |            |          |             |                                                                                                                                               |
| RC3/SCK/SCL         | 34         | 44         | I/O      | ST          | Digital I/O.<br>Synchronous serial clock input/output<br>for SPI mode.<br>Synchronous serial clock input/output<br>for I <sup>2</sup> C mode. |
| RC3                 |            |            | I/O      | ST          |                                                                                                                                               |
| SCK                 |            |            | I/O      | ST          |                                                                                                                                               |
| SCL                 |            |            |          |             |                                                                                                                                               |
| RC4/SDI/SDA         | 35         | 45         | I/O      | ST          | Digital I/O.<br>SPI data in.<br>I <sup>2</sup> C data I/O.                                                                                    |
| RC4                 |            |            | I        | ST          |                                                                                                                                               |
| SDI                 |            |            | I/O      | ST          |                                                                                                                                               |
| SDA                 |            |            |          |             |                                                                                                                                               |
| RC5/SDO             | 36         | 46         | I/O      | ST          | Digital I/O.<br>SPI data out.                                                                                                                 |
| RC5                 |            |            | O        | —           |                                                                                                                                               |
| SDO                 |            |            |          |             |                                                                                                                                               |
| RC6/TX1/CK1         | 31         | 37         | I/O      | ST          | Digital I/O.<br>USART 1 asynchronous transmit.<br>USART 1 synchronous clock<br>(see RX1/DT1).                                                 |
| RC6                 |            |            | O        | —           |                                                                                                                                               |
| TX1                 |            |            | I/O      | ST          |                                                                                                                                               |
| CK1                 |            |            |          |             |                                                                                                                                               |
| RC7/RX1/DT1         | 32         | 38         | I/O      | ST          | Digital I/O.<br>USART 1 asynchronous receive.<br>USART 1 synchronous data<br>(see TX1/CK1).                                                   |
| RC7                 |            |            | I        | ST          |                                                                                                                                               |
| RX1                 |            |            | I/O      | ST          |                                                                                                                                               |
| DT1                 |            |            |          |             |                                                                                                                                               |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -80

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(4/8)

| Pin Name           | Pin Number |            | Pin Type | Buffer Type | Description                                                                                           |
|--------------------|------------|------------|----------|-------------|-------------------------------------------------------------------------------------------------------|
|                    | PIC18F6X20 | PIC18F8X20 |          |             |                                                                                                       |
| RD0/PSP0/AD0       | 58         | 72         |          |             | PORTD is a bidirectional I/O port. These pins have TTL input buffers when external memory is enabled. |
| RD0                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP0               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD0 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 0.                                                                       |
| RD1/PSP1/AD1       | 55         | 69         |          |             |                                                                                                       |
| RD1                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP1               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD1 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 1.                                                                       |
| RD2/PSP2/AD2       | 54         | 68         |          |             |                                                                                                       |
| RD2                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP2               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD2 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 2.                                                                       |
| RD3/PSP3/AD3       | 53         | 67         |          |             |                                                                                                       |
| RD3                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP3               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD3 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 3.                                                                       |
| RD4/PSP4/AD4       | 52         | 66         |          |             |                                                                                                       |
| RD4                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP4               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD4 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 4.                                                                       |
| RD5/PSP5/AD5       | 51         | 65         |          |             |                                                                                                       |
| RD5                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP5               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD5 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 5.                                                                       |
| RD6/PSP6/AD6       | 50         | 64         |          |             |                                                                                                       |
| RD6                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP6               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD6 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 6.                                                                       |
| RD7/PSP7/AD7       | 49         | 63         |          |             |                                                                                                       |
| RD7                |            |            | I/O      | ST          | Digital I/O.                                                                                          |
| PSP7               |            |            | I/O      | TTL         | Parallel Slave Port data.                                                                             |
| AD7 <sup>(3)</sup> |            |            | I/O      | TTL         | External memory address/data 7.                                                                       |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -81

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(5/8)

| Pin Name                                                                                                          | Pin Number |            | Pin Type              | Buffer Type          | Description                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------|------------|------------|-----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                   | PIC18F6X20 | PIC18F8X20 |                       |                      |                                                                                                                                                                                                                                |
| RE0/ $\overline{\text{RD}}$ /AD8<br>$\overline{\text{RE0}}$<br>$\overline{\text{RD}}$<br><br>AD8 <sup>(3)</sup>   | 2          | 4          | I/O<br>I<br><br>I/O   | ST<br>TTL<br><br>TTL | <p>PORTE is a bidirectional I/O port.</p> <p>Digital I/O.<br/>Read control for Parallel Slave Port (see <math>\overline{\text{WR}}</math> and <math>\overline{\text{CS}}</math> pins).<br/>External memory address/data 8.</p> |
| RE1/ $\overline{\text{WR}}$ /AD9<br>$\overline{\text{RE1}}$<br>$\overline{\text{WR}}$<br><br>AD9 <sup>(3)</sup>   | 1          | 3          | I/O<br>I<br><br>I/O   | ST<br>TTL<br><br>TTL | <p>Digital I/O.<br/>Write control for Parallel Slave Port (see <math>\overline{\text{CS}}</math> and <math>\overline{\text{RD}}</math> pins).<br/>External memory address/data 9.</p>                                          |
| RE2/ $\overline{\text{CS}}$ /AD10<br>$\overline{\text{RE2}}$<br>$\overline{\text{CS}}$<br><br>AD10 <sup>(3)</sup> | 64         | 78         | I/O<br>I<br><br>I/O   | ST<br>TTL<br><br>TTL | <p>Digital I/O.<br/>Chip select control for Parallel Slave Port (see <math>\overline{\text{RD}}</math> and <math>\overline{\text{WR}}</math>).<br/>External memory address/data 10.</p>                                        |
| RE3/AD11<br>RE3<br>AD11 <sup>(3)</sup>                                                                            | 63         | 77         | I/O<br>I/O            | ST<br>TTL            | <p>Digital I/O.<br/>External memory address/data 11.</p>                                                                                                                                                                       |
| RE4/AD12<br>RE4<br>AD12                                                                                           | 62         | 76         | I/O<br>I/O            | ST<br>TTL            | <p>Digital I/O.<br/>External memory address/data 12.</p>                                                                                                                                                                       |
| RE5/AD13<br>RE5<br>AD13 <sup>(3)</sup>                                                                            | 61         | 75         | I/O<br>I/O            | ST<br>TTL            | <p>Digital I/O.<br/>External memory address/data 13.</p>                                                                                                                                                                       |
| RE6/AD14<br>RE6<br>AD14 <sup>(3)</sup>                                                                            | 60         | 74         | I/O<br>I/O            | ST<br>TTL            | <p>Digital I/O.<br/>External memory address/data 14.</p>                                                                                                                                                                       |
| RE7/CCP2/AD15<br>RE7<br>CCP2 <sup>(1,4)</sup><br><br>AD15 <sup>(3)</sup>                                          | 59         | 73         | I/O<br>I/O<br><br>I/O | ST<br>ST<br><br>TTL  | <p>Digital I/O.<br/>Capture2 input/Compare2 output/<br/>PWM2 output.<br/>External memory address/data 15.</p>                                                                                                                  |



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -82

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(6/8)

| Pin Name               | Pin Number |            | Pin Type | Buffer Type | Description                                                 |
|------------------------|------------|------------|----------|-------------|-------------------------------------------------------------|
|                        | PIC18F6X20 | PIC18F8X20 |          |             |                                                             |
| RF0/AN5                | 18         | 24         | I/O      | ST          | PORTF is a bidirectional I/O port.                          |
| RF0<br>AN5             |            |            | I        | Analog      |                                                             |
| RF1/AN6/C2OUT          | 17         | 23         | I/O      | ST          | Digital I/O.<br>Analog input 6.<br>Comparator 2 output.     |
| RF1<br>AN6             |            |            | I        | Analog      |                                                             |
| C2OUT                  |            |            | O        | ST          |                                                             |
| RF2/AN7/C1OUT          | 16         | 18         | I/O      | ST          | Digital I/O.<br>Analog input 7.<br>Comparator 1 output.     |
| RF2<br>AN7             |            |            | I        | Analog      |                                                             |
| C1OUT                  |            |            | O        | ST          |                                                             |
| RF3/AN8                | 15         | 17         | I/O      | ST          | Digital I/O.<br>Analog input 8.                             |
| RF1<br>AN8             |            |            | I        | Analog      |                                                             |
| RF4/AN9                | 14         | 16         | I/O      | ST          | Digital I/O.<br>Analog input 9.                             |
| RF1<br>AN9             |            |            | I        | Analog      |                                                             |
| RF5/AN10/CVREF         | 13         | 15         | I/O      | ST          | Digital I/O.<br>Analog input 10.<br>Comparator VREF output. |
| RF1<br>AN10            |            |            | I        | Analog      |                                                             |
| CVREF                  |            |            | O        | Analog      |                                                             |
| RF6/AN11               | 12         | 14         | I/O      | ST          | Digital I/O.<br>Analog input 11.                            |
| RF6<br>AN11            |            |            | I        | Analog      |                                                             |
| RF7/ $\overline{SS}$   | 11         | 13         | I/O      | ST          | Digital I/O.<br>SPI slave select input.                     |
| RF7<br>$\overline{SS}$ |            |            | I        | TTL         |                                                             |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -83

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

### TERMINAL DESCRIPTION(7/8)

| Pin Name                         | Pin Number |            | Pin Type        | Buffer Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|------------|------------|-----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | PIC18F6X20 | PIC18F8X20 |                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RG0/CCP3<br>RG0<br>CCP3          | 3          | 5          | I/O<br>I/O      | ST<br>ST       | PORTG is a bidirectional I/O port.<br><br>Digital I/O.<br>Capture3 input/Compare3 output/<br>PWM3 output.<br><br>Digital I/O.<br>USART 2 asynchronous transmit.<br>USART 2 synchronous clock<br>(see RX2/DT2).<br><br>Digital I/O.<br>USART 2 asynchronous receive.<br>USART 2 synchronous data<br>(see TX2/CK2).<br><br>Digital I/O.<br>Capture4 input/Compare4 output/<br>PWM4 output.<br><br>Digital I/O.<br>Capture5 input/Compare5 output/<br>PWM5 output. |
| RG1/TX2/CK2<br>RG1<br>TX2<br>CK2 | 4          | 6          | I/O<br>O<br>I/O | ST<br>—<br>ST  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RG2/RX2/DT2<br>RG2<br>RX2<br>DT2 | 5          | 7          | I/O<br>I<br>I/O | ST<br>ST<br>ST |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RG3/CCP4<br>RG3<br>CCP4          | 6          | 8          | I/O<br>I/O      | ST<br>ST       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RG4/CCP5<br>RG4<br>CCP5          | 8          | 10         | I/O<br>I/O      | ST<br>ST       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Pin Name                | Pin Number |            | Pin Type | Buffer Type  | Description                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------|------------|----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | PIC18F6X20 | PIC18F8X20 |          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH0/A16<br>RH0<br>A16   | —          | 79         | I/O<br>O | ST<br>TTL    | PORTH is a bidirectional I/O port <sup>(5)</sup> .<br><br>Digital I/O.<br>External memory address 16.<br><br>Digital I/O.<br>External memory address 17.<br><br>Digital I/O.<br>External memory address 18.<br><br>Digital I/O.<br>External memory address 19.<br><br>Digital I/O.<br>Analog input 12.<br><br>Digital I/O.<br>Analog input 13.<br><br>Digital I/O.<br>Analog input 14.<br><br>Digital I/O.<br>Analog input 15. |
| RH1/A17<br>RH1<br>A17   | —          | 80         | I/O<br>O | ST<br>TTL    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH2/A18<br>RH2<br>A18   | —          | 1          | I/O<br>O | ST<br>TTL    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH3/A19<br>RH3<br>A19   | —          | 2          | I/O<br>O | ST<br>TTL    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH4/AN12<br>RH4<br>AN12 | —          | 22         | I/O<br>I | ST<br>Analog |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH5/AN13<br>RH5<br>AN13 | —          | 21         | I/O<br>I | ST<br>Analog |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH6/AN14<br>RH6<br>AN14 | —          | 20         | I/O<br>I | ST<br>Analog |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RH7/AN15<br>RH7<br>AN15 | —          | 19         | I/O<br>I | ST<br>Analog |                                                                                                                                                                                                                                                                                                                                                                                                                                |

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -84

## Q1001: PIC18F66(1 Mbit Flash Microcontroller with Ethernet)

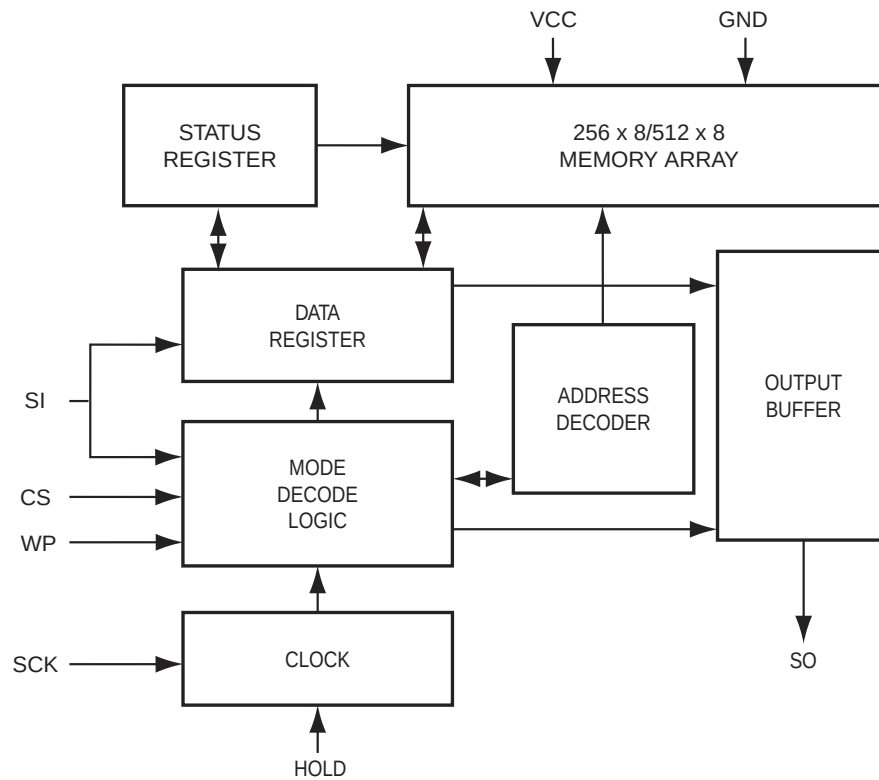
### TERMINAL DESCRIPTION(8/8 )

| Pin Name                                                       | Pin Number |            | Pin Type | Buffer Type | Description                                                                                                     |
|----------------------------------------------------------------|------------|------------|----------|-------------|-----------------------------------------------------------------------------------------------------------------|
|                                                                | PIC18F6X20 | PIC18F8X20 |          |             |                                                                                                                 |
| RJ0/ALE<br>RJ0<br>ALE                                          | —          | 62         | I/O<br>O | ST<br>TTL   | PORTJ is a bidirectional I/O port <sup>(5)</sup> .<br><br>Digital I/O.<br>External memory address latch enable. |
| RJ1/ $\overline{\text{OE}}$<br>RJ1<br>$\overline{\text{OE}}$   | —          | 61         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory output enable.                                                                  |
| RJ2/ $\overline{\text{WRL}}$<br>RJ2<br>$\overline{\text{WRL}}$ | —          | 60         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory write low control.                                                              |
| RJ3/ $\overline{\text{WRH}}$<br>RJ3<br>$\overline{\text{WRH}}$ | —          | 59         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory write high control.                                                             |
| RJ4/BA0<br>RJ4<br>BA0                                          | —          | 39         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory Byte Address 0 control.                                                         |
| RJ5/ $\overline{\text{CE}}$<br>RJ5<br>$\overline{\text{CE}}$   | —          | 40         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory chip enable control.                                                            |
| RJ6/ $\overline{\text{LB}}$<br>RJ6<br>$\overline{\text{LB}}$   | —          | 41         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory low byte select.                                                                |
| RJ7/ $\overline{\text{UB}}$<br>RJ7<br>$\overline{\text{UB}}$   | —          | 42         | I/O<br>O | ST<br>TTL   | Digital I/O.<br>External memory high byte select.                                                               |

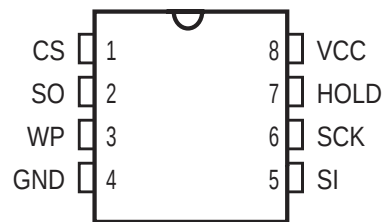
## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -85

### Q1002: IS25C02(2 kbit EEPROM)

#### BLOCK DIAGRAM



#### PIN CONFIGURATION

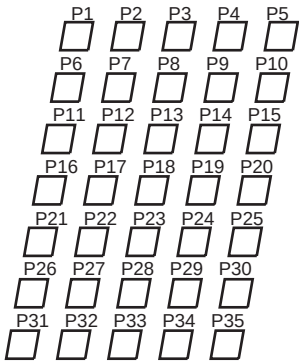
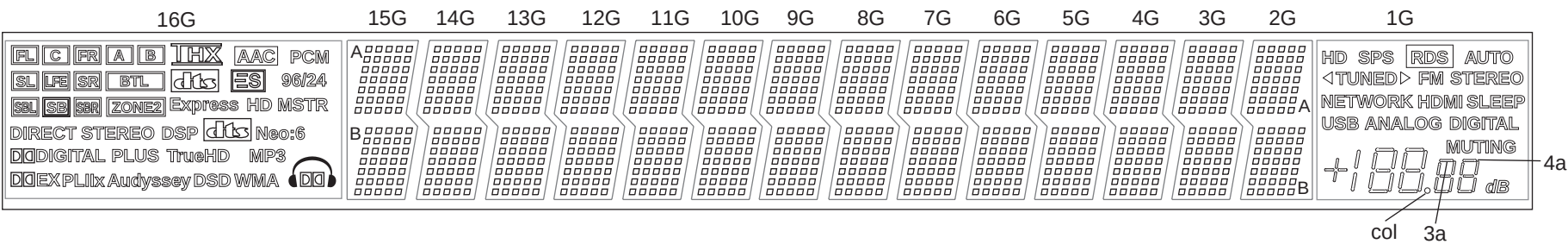


#### TERMINAL DESCRIPTION

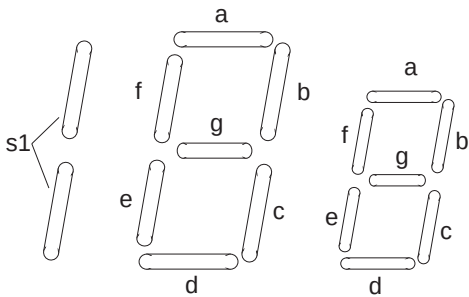
|      |                       |
|------|-----------------------|
| CS   | Chip Select           |
| SCK  | Serial Data Clock     |
| SI   | Serial Data Input     |
| SO   | Serial Data Output    |
| GND  | Ground                |
| Vcc  | Power                 |
| WP   | Write Protect         |
| HOLD | Suspends Serial Input |

FL TUBE VIEWS-1  
Q7500: HNA-16SL04T

GRID ASSIGNMENT



15G~2G  
A: Upper line  
B: Lower line



1G



## FL TUBE VIEWS -2

Q7500: HNA-16SL04T

## ANODE CONNECTION

|     | 16G  | 15G-2G | 1G        |
|-----|------|--------|-----------|
| P1  | —    | 1-1A   | —         |
| P2  | —    | 2-1A   | —         |
| P3  | —    | 3-1A   | —         |
| P4  | —    | 4-1A   | —         |
| P5  | —    | 5-1A   | —         |
| P6  | —    | 1-2A   | —         |
| P7  | —    | 2-2A   | —         |
| P8  | —    | 3-2A   | —         |
| P9  | —    | 4-2A   | —         |
| P10 | —    | 5-2A   | —         |
| P11 | —    | 1-3A   | —         |
| P12 | —    | 2-3A   | —         |
| P13 | —    | 3-3A   | —         |
| P14 | —    | 4-3A   | HD        |
| P15 | —    | 5-3A   | SPS       |
| P16 | PCM  | 1-4A   | RDS       |
| P17 | AAC  | 2-4A   | AUTO      |
| P18 | THX  | 3-4A   | FM STEREO |
| P19 | B    | 4-4A   | ◀ ▶       |
| P20 | A    | 5-4A   | TUNED     |
| P21 | (FR) | 1-5A   | SLEEP     |
| P22 | (F)R | 2-5A   | HDMI      |
| P23 | F(R) | 3-5A   | NETWORK   |
| P24 | (C)  | 4-5A   | —         |
| P25 | C    | 5-5A   | —         |
| P26 | (FL) | 1-6A   | —         |
| P27 | (F)L | 2-6A   | —         |

|     | 16G     | 15G-2G | 1G      |
|-----|---------|--------|---------|
| P28 | F(L)    | 3-6A   | —       |
| P29 | SL      | 4-6A   | —       |
| P30 | (SL)    | 5-6A   | —       |
| P31 | LFE     | 1-7A   | —       |
| P32 | (LFE)   | 2-7A   | —       |
| P33 | —       | 3-7A   | DIGITAL |
| P34 | —       | 4-7A   | ANALOG  |
| P35 | (SR)    | 5-7A   | USB     |
| P36 | SR      | 1-1B   | —       |
| P37 | BTL     | 2-1B   | MUTING  |
| P38 | dtb     | 3-1B   | 2a      |
| P39 | ES      | 4-1B   | 2b      |
| P40 | 96/24   | 5-1B   | 2g      |
| P41 | MSTR    | 1-2B   | 2f      |
| P42 | HD      | 2-2B   | 2c      |
| P43 | Express | 3-2B   | 2e      |
| P44 | ZONE2   | 4-2B   | 2d      |
| P45 |         | 5-2B   | 1a      |
| P46 | SBR     | 1-3B   | 1b      |
| P47 |         | 2-3B   | 1g      |
| P48 | SB      | 3-3B   | 1f      |
| P49 |         | 4-3B   | 1c      |
| P50 | SBL     | 5-3B   | 1e      |
| P51 | Neo:6   | 1-4B   | 1d      |
| P52 | dtb     | 2-4B   | !       |
| P53 | DSP     | 3-4B   | --      |
| P54 | STEREO  | 4-4B   | s1      |

|     | 16G      | 15G-2G | 1G  |
|-----|----------|--------|-----|
| P55 | DIRECT   | 5-4B   | col |
| P56 | DD       | 1-5B   | 3a  |
| P57 | DIGITAL  | 2-5B   | 3f  |
| P58 | PLUS     | 3-5B   | 3b  |
| P59 | TrueHD   | 4-5B   | 3e  |
| P60 | MP3      | 5-5B   | 3g  |
| P61 |          | 1-6B   | 3d  |
| P62 | DD       | 2-6B   | 3c  |
| P63 | WMA      | 3-6B   | 4a  |
| P64 | DSD      | 4-6B   | 4f  |
| P65 | Audyssey | 5-6B   | 4b  |
| P66 | X        | 1-7B   | 4e  |
| P67 | II       | 2-7B   | 4g  |
| P68 | PL       | 3-7B   | 4d  |
| P69 | EX       | 4-7B   | 4c  |
| P70 | DD       | 5-7B   | dB  |

## MICROPROCESSOR TERMINAL DESCRIPTIONS -1

## Q7001: M3087BFKBGP

| Pin No. | Pin Name       | I/O | Act. | Description                         |
|---------|----------------|-----|------|-------------------------------------|
| 1       | SRTXD          | O   | H    | SIRIUS UART data output             |
| 2       | SRRST          | O   | H    | SIRIUS IC reset                     |
| 3       | FANCTRL        | O   | D/A  | Fan control                         |
| 4       | CECIN          | I   | H    | CEC input                           |
| 5       | XMTXD          | O   | H    | XM UART data output                 |
| 6       | XMRXD          | I   | H    | XM UART data input                  |
| 7       | ~XMRST         | O   | L    | XM IC reset                         |
| 8       | XMANT          | I   | L    | XM IC 3B/4A input                   |
| 9       | ~RDSCLK        | I   | CLK  | RDS serial clock input              |
| 10      | RDSSDI         | I   | H    | RDS serial data input               |
| 11      | ~STEREO        | I   | L    | FM STEREO detect                    |
| 12      | ~SD            | I   | L    | FM tuned detect                     |
| 13      | ~TUNDACRST     | O   | L    | XM/(HD Radio) DAC reset control     |
| 14      | ~HDRST         | O   | L    | (HD Radio reset control)            |
| 15      | BYTE           | I   | ---  | Connect to Vss                      |
| 16      | CNVss          | I   | ---  | Connect to Vss                      |
| 17      | ~NETBOOT       | O   | L    | (NET BOOT mode output)              |
| 18      | ~NETSTATUS     | I   | L    | (NET Status input)                  |
| 19      | ~RESET         | I   | L    | Reset input                         |
| 20      | Xout           | O   | CLK  | Oscillator output                   |
| 21      | Vss            | I   | ---  | GND                                 |
| 22      | Xin            | I   | CLK  | Oscillator input                    |
| 23      | Vcc            | I   | ---  | Power supply                        |
| 24      | ~NMI           | I   | L    | Connect to Vcc                      |
| 25      | ~POFF          | I   | L    | POFF input                          |
| 26      | ~POFF2         | I   | L    | POFF input                          |
| 27      | ~KEYINT        | I   | L    | Key interrupt input                 |
| 28      | CECTRG         | I   | H    | CEC trigger input                   |
| 29      | CECOUT         | O   | H    | CEC output                          |
| 30      | Z2VOLCLK       | O   | H    | Clock output to Zone2/3 Volume IC   |
| 31      | Z2VOLSDO       | O   | H    | Data output to Zone2/3 Volume IC    |
| 32      | XMLNK          | I   | H    | 3B/4A input from XM IC              |
| 33      | VDLOCK/VSPINT  | I/O | H    | Lock state output to HQV(VX-50)     |
| 34      | ~VSPRST        | O   | L    | HQV(VX-50) reset output             |
| 35      | VSPBOOT/VSPREQ | O   | H    | HQV(VX-50) boot mode select output  |
| 36      | VSPRxD/VSPSCL  | I/O | H    | HQV(VX-50) UART data input          |
| 37      | VSPRxD/VSPSDA  | I/O | H    | HQV(VX-50) UART data output         |
| 38      | RS232TxD/FTxD  | O   | H    | RS232 data output/Flash rewrite pin |
| 39      | Vcc            | I   | H    | Power supply                        |
| 40      | RS232RxD/FRxD  | I   | H    | RS232 data input                    |
| 41      | Vss            | I   | H    | GND                                 |
| 42      | FCLK           | O   | H    | Flash rewrite pin                   |
| 43      | FBUSY          | O   | H    | Flash rewrite pin                   |
| 44      | NETTxD         | O   | H    | NET UART data output                |
| 45      | NETRxD         | I   | H    | NET UART data input                 |
| 46      | ~NETRST        | O   | L    | NET reset output                    |
| 47      | ~NETRESUME     | O   | L    | NET Resume data output              |
| 48      | ~ROMCS         | O   | L    | E2PROM chip select                  |
| 49      | ROMSDI         | I   | H    | E2PROM data input                   |
| 50      | ROMSDO         | O   | H    | E2PROM data output                  |

## MICROPROCESSOR TERMINAL DESCRIPTIONS -2

## Q7001: M3087BFKBGP

| Pin No. | Pin Name | I/O | Act. | Description                               |
|---------|----------|-----|------|-------------------------------------------|
| 51      | ROMCLK   | O   | CLK  | E2PROM clock output                       |
| 52      | NETRSV   | O   | H    | No use                                    |
| 53      | SPRLFB   | O   | H    | (Front-B Speaker relay control)           |
| 54      | FEPM     | I   | H    | Connect to Vss                            |
| 55      | SPRLZ2   | O   | H    | (Zone2 Speaker relay control)             |
| 56      | Z3MUTE   | O   | H    | Zone3 mute control                        |
| 57      | Vss      | I   | H    | GND                                       |
| 58      | Z2MUTE   | O   | H    | Zone2 mute control                        |
| 59      | Vcc      | I   | H    | Power supply                              |
| 60      | SBZ2MUTE | O   | H    | Surround Back/Zone2 mute control          |
| 61      | AMUTE    | O   | H    | Main audio mute control                   |
| 62      | SPRLSB   | O   | H    | Surround Back SP relay control            |
| 63      | SPRLCS   | O   | H    | Center/Surround SP relay control          |
| 64      | SPRLF    | O   | H    | Front SP relay control                    |
| 65      | FCS      | I   | H    | Connect to Vcc                            |
| 66      | DAMPRSV  | O   | H    | No use                                    |
| 67      | DAMPINT  | I   | H    | No use                                    |
| 68      | ~DAMPRST | O   | L    | No use                                    |
| 69      | SELSTB   | O   | H    | Audio input selector Strobe output        |
| 70      | SELDAT   | O   | H    | Audio input selector data output          |
| 71      | SELCLK   | O   | CLK  | Audio input selector clock output         |
| 72      | ~VOLRST  | O   | L    | Volume IC reset control                   |
| 73      | ~VOLUME  | O   | L    | Volume IC mute control                    |
| 74      | Vcc      | I   | ---  | Power supply                              |
| 75      | ~VOLCS   | O   | L    | Volume IC chip select                     |
| 76      | Vss      | I   | ---  | GND                                       |
| 77      | VOLSDO   | O   | H    | Volume IC data output                     |
| 78      | VOLCLK   | O   | CLK  | Volume IC clock output                    |
| 79      | ~DSP3INT | I   | L    | 3rd DSP BUSY detect input                 |
| 80      | ~DSP3RST | O   | L    | 3rd DSP reset                             |
| 81      | ~DSP2INT | I   | L    | 2nd DSP BUSY detect input                 |
| 82      | ~DSP2RST | O   | L    | 2nd DSP reset                             |
| 83      | ~DSP1INT | I   | L    | 1st DSP BUSY detect input                 |
| 84      | ~DSP1RST | O   | L    | 1st DSP reset                             |
| 85      | ~DACRST  | O   | L    | DAC reset                                 |
| 86      | DIRINT   | I   | H    | DIR Err detect input                      |
| 87      | ~DIRRST  | O   | L    | DIR reset                                 |
| 88      | DIGSDI   | I   | H    | DIR/DSP/DAC data input                    |
| 89      | DIGCLK   | O   | CLK  | DIR/DSP/DAC/FLD clock output              |
| 90      | DIGSDO   | O   | H    | DIR/DSP/DAC/FLD data output               |
| 91      | Vcc      | I   | ---  | Power supply                              |
| 92      | PROTECT  | I   | H    | (PROTECT detect input)                    |
| 93      | Vss      | I   | ---  | GND                                       |
| 94      | APOWER2  | O   | H    | Main power trans control output2          |
| 95      | APOWER1  | O   | H    | Main power trans control output1          |
| 96      | MEQMUTE  | I   | H    | 3rd DSP Audyssey mute detect input        |
| 97      | VPOWER   | O   | H    | Video power control output                |
| 98      | MPOWER   | O   | H    | Middle power trans control output         |
| 99      | VOLH     | I   | A/D  | (Power Amp voltage switch control detect) |
| 100     | THERMAL2 | I   | A/D  | (Thermal sensor input)                    |

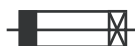
## MICROPROCESSOR TERMINAL DESCRIPTIONS -3

## Q7001: M3087BFKBGP

| Pin No. | Pin Name       | I/O | Act. | Description                               |
|---------|----------------|-----|------|-------------------------------------------|
| 101     | THERMAL1       | I   | A/D  | (Thermal sensor input)                    |
| 102     | ~REMIN         | I   | L    | Remote control signal input               |
| 103     | DSP1NIC        | I   | H    | 1st DSP status change detect              |
| 104     | SYSIN          | I   | H    | RI input                                  |
| 105     | ~SYSOUT        | O   | L    | RI output                                 |
| 106     | MICMUTE        | O   | H    | Setup Mic mute control                    |
| 107     | ~MICDET        | I   | L    | Setup Mic detect input                    |
| 108     | HPRL           | O   | H    | Headphone relay control                   |
| 109     | HPDET          | I   | H    | Headphone detect input                    |
| 110     | INIT3          | I   | A/D  | Initial setup input 3                     |
| 111     | INIT2          | I   | A/D  | Initial setup input 2                     |
| 112     | INIT1          | I   | A/D  | Initial setup input 1                     |
| 113     | BAND           | I   | A/D  | Initial setup input                       |
| 114     | SIOCSEA        | O   | H    | DIR/DSP/DAC/FLD/etc chip select output    |
| 115     | SIOCSEB        | O   | H    | DIR/DSP/DAC/FLD/etc chip select output    |
| 116     | SIOCSEC        | O   | H    | DIR/DSP/DAC/FLD/etc chip select output    |
| 117     | SIOCSE1        | O   | H    | DIR/DSP/DAC/FLD chip select output        |
| 118     | SIOCSE2        | O   | H    | Selector etc chip select output           |
| 119     | VOLB           | I   | H    | Master volume data input                  |
| 120     | VOLA           | I   | H    | Master volume data input                  |
| 121     | LEDSTBY2       | O   | H    | STANDBY LED control output                |
| 122     | LEDSTBY        | O   | H    | STANDBY LED control output                |
| 123     | ~FLDRST        | O   | L    | FL Driver IC reset control                |
| 124     | RXMUTE         | I   | H    | HDMI Receiver mute input                  |
| 125     | TXMUTE         | O   | H    | HDMI Transmitter mute output              |
| 126     | ~HDMIRST       | O   | L    | HDMI reset control                        |
| 127     | HDMISTB        | I   | H    | HDMI Strobe input                         |
| 128     | HDMISDI        | I   | H    | HDMI data input                           |
| 129     | HDMICLK        | O   | CLK  | HDMI clock output                         |
| 130     | Vss            | I   | ---  | GND                                       |
| 131     | HDMISDO        | O   | H    | HDMI data output                          |
| 132     | Vcc            | I   | ---  | Power supply                              |
| 133     | KEY3           | I   | A/D  | Selector Key voltage input                |
| 134     | KEY2           | I   | A/D  | Selector Key voltage input                |
| 135     | KEY1           | I   | A/D  | Selector Key voltage input                |
| 136     | KEY0           | I   | A/D  | Selector Key voltage input                |
| 137     | ~DSP1DEC       | I   | L    | 1st DSP decode status input               |
| 138     | TUMUTE         | O   | H    | Tuner mute output                         |
| 139     | TUNSDA/VSELSDA | I/O | H    | Tuner PLL/Video Sel/I2C data input/output |
| 140     | AVss           | I   | ---  | GND                                       |
| 141     | TUNSCL/VSELSCL | I/O | H    | Tuner PLL/Video Sel/I2C clock output      |
| 142     | Vref           | I   | ---  | Connect to Vcc                            |
| 143     | AVcc           | I   | ---  | Power supply                              |
| 144     | SRRxD          | I   | H    | SIRIUS data input                         |

## SERVICE PROCEDURE

### 1. Replacing the fuses



This symbol located near the fuse indicates that the fuse used is slow operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.



Ce symbole indique que le fusible utilise est à lent. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

| REF NO. | PART NAME | DESCRIPTION   | PART NO. | REMARKS |
|---------|-----------|---------------|----------|---------|
| F2501   | FUSE      | 4A-UL/T-233   | 252325GR | !       |
| F2502   | FUSE      | 4A-UL/T-233   | 252325GR | !       |
| F5000   | FUSE      | 4A-UL/T-233   | 252325GR | !       |
| F5001   | FUSE      | 4A-UL/T-233   | 252325GR | !       |
| F5002   | FUSE      | 2.5A-UL/T-233 | 252321GR | !       |
| F5003   | FUSE      | 2.5A-UL/T-233 | 252321GR | !       |
| F9000   | FUSE      | 5A-UL/T-233   | 252326GR | !       |
| F9301   | FUSE      | 4A-UL/T-233   | 252325GR | !       |

### 2. To initialize the unit

1. Press and hold down VCR/DVR button, then press STANDBY/ON button when the unit is powered on.
2. After "Clear" is displayed, the preset memory and each mode stored in the memory are initialized and will return to the factory settings, and turn to Standby mode.

### 3. Safety check out

(U.S.A. model only)

After correcting the original service problem, perform the following safety check before releasing the unit to the customer.

#### Leakage current Check

Measure the leakage current to a known earth ground (water pipe or conduct etc.) by connecting a leakage current tester between the earth ground and exposed metal parts of the unit (input/output ground terminals, screw heads or metal overlays etc.).

Plug the power supply cord directly into a 120Vac 60Hz wall socket and turn STANDBY/ON button on.

Any current measured must not exceed 0.5mA.

### 4. Memory Backup

This model uses a EE-PROM IC in order to retain radio presets and other settings. So, memory contents will be kept eternally with no care.

### 5. Replacing HDMI Board (NAHDM-9114)

When removing HDMI board (NAHDM-9114) from the unit, wait 10 minutes after having unplugged the power supply cord from a wall socket. This is because perfect discharging of capacitors connected to U8000:VX-50 is necessary to prevent from the break of VX-50.

Pay attention that this procedure is necessary every time when removing the HDMI board in testing or repairing the board.

To make this procedure short, wait 15 seconds after having unplugged the power supply cord, then short TP1 (located beside J8002B) and unplug J8002B, and then unplug P2801B. If this order is not right, VX-50 would break.



## FIRMWARE UPDATE -1

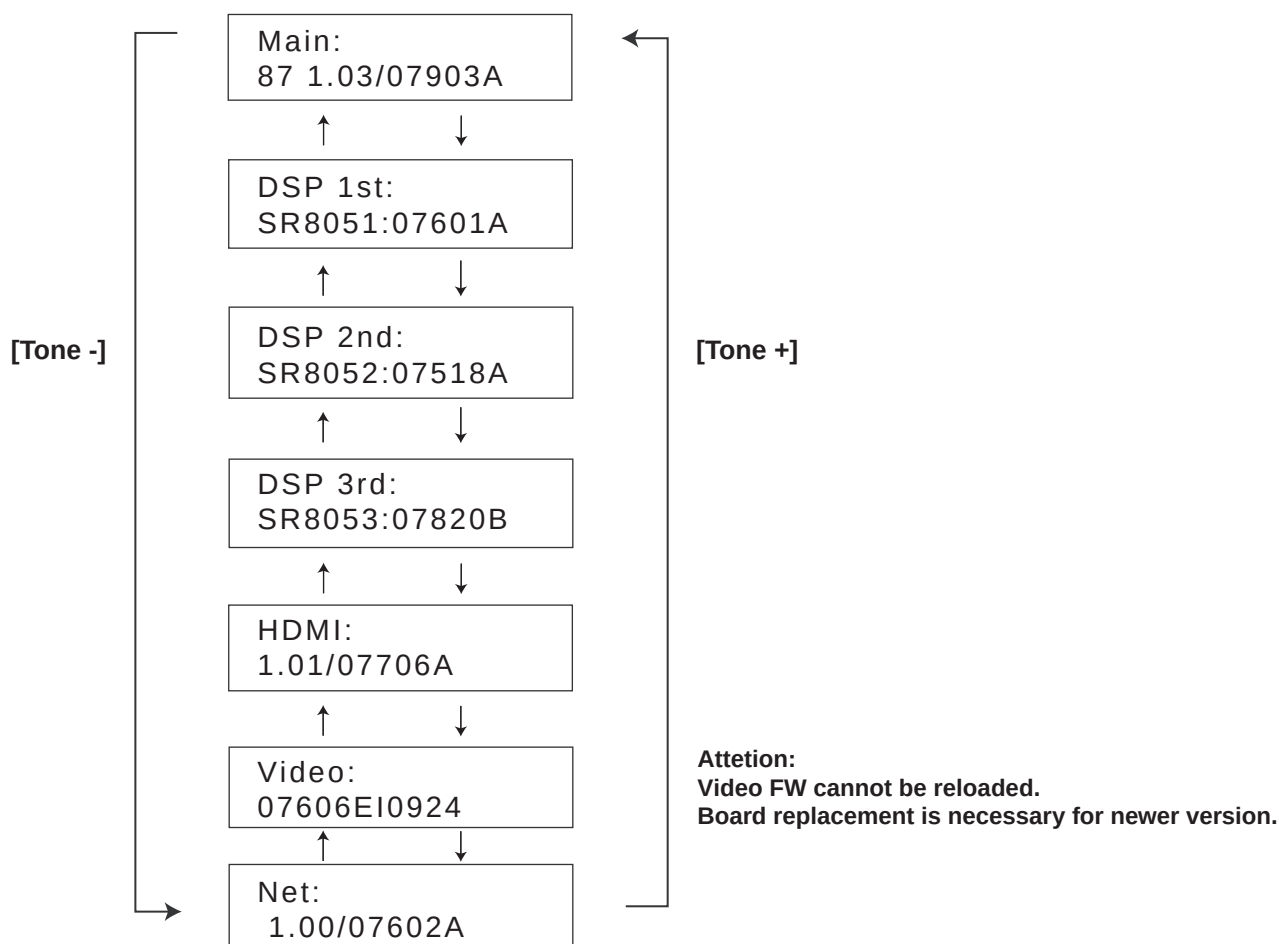
### How to Check Versions of Main, DSP(1st to 3rd), HDMI, Video and Network FW

1. Press and hold down [DISPLAY] button, then press [STANDBY/ON] button when the unit is powered on.  
The main microprocessor version will be displayed on Front Display for about 3 seconds.

<e.g.>

Main:  
87 1.03/07903A

2. Press [Tone +] button while the version is displayed. Then, “DSP 1st SR8051/07601A” will be displayed.  
Press [Tone +] button again while “DSP 1st SR8051/07601A” is displayed. Then, “DSP 2nd: SR8052/07518A” will be displayed. In this way, as [Tone +] button is pressed while a version is displayed, the next information will be displayed.  
If [Tone -] button is pressed, the order will be reversed.



Note: These versions are the latest as of October 1, 2007.

## FIRMWARE UPDATE -2

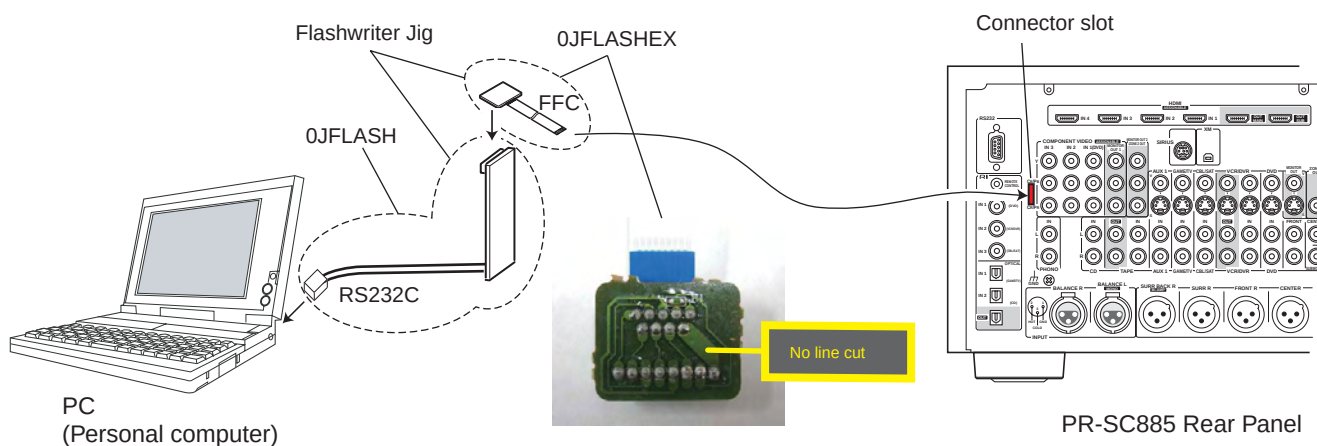
### Preparation for Update (Main)

#### A: Hardware and Software

1. Personal computer(PC) with Windows XP or 2000
2. Flashwriter jig: 0JFLASH and 0JFLASHEX for Main
3. Writing soft: "flasta\_exe.zip" and Manual: "Flash Writer M16 Manual.pdf"  
Download and unzip "flasta\_exe.zip" to extract "FlashSta.exe" etc. in advance.
4. Program & ID: Download the latest ".mot" and ".id" files for TX-SR875/DTC-9.8/PR-SC885 and store in the same folder as "FlashSta.exe."

#### B: Connection and Setup

1. While the target unit is off, connect 0JFLASH and 0JFLASHEX to RS232C port of the PC.
2. Connect the FFC of the jig to the connector slot on the rear panel of TX-SR875/DTC-9.8/PR-SC885.
3. Power on the unit.



### Main Microprocessor Update Procedure

1. Start "FlashSta.exe" and update the unit referring to "Flash Writer M16 Manual.pdf."  
**MCU Type is M16C/80 M32.** It takes about 5 minutes.
2. After Program and Read Check are finished, click "Exit" button to end "FlashSta.exe".
3. Turn off the main power switch or pull the power cord off the wall socket.  
Pay attention that pushing [STANDBY/ON] button to power off is not perfect.
4. Remove the jig from the unit and power on the unit again. Confirm the new version number.

## FIRMWARE UPDATE -3

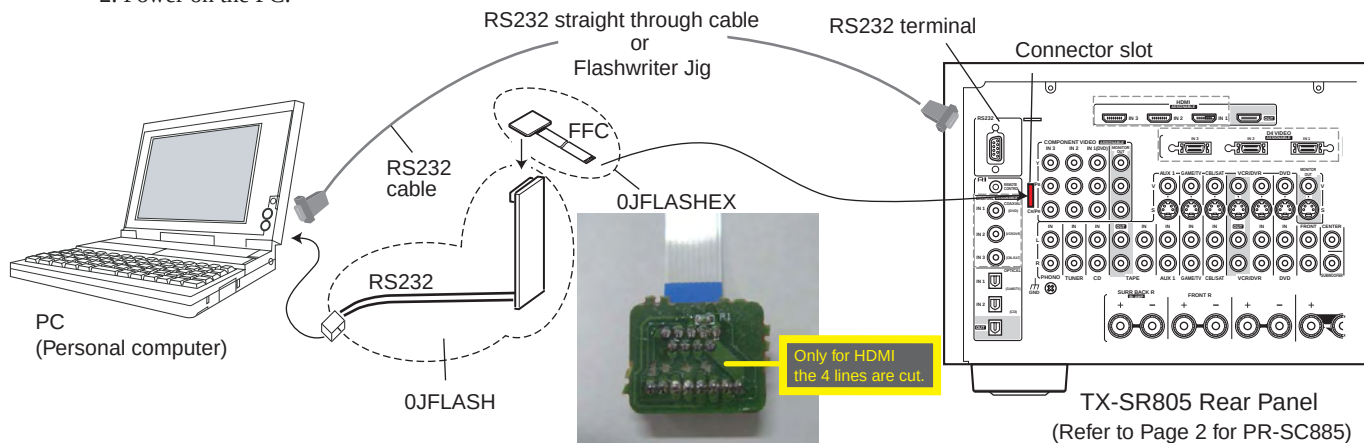
### Preparation for Update (HDMI)

#### A: Hardware and Software

1. Personal computer(PC) with Windows XP or 2000.
2. Cable: RS232 straight cable or Flashwriter jig: 0JFLASH and 0JFLASHEX for HDMI.
3. Writing soft: "HDMIUpdater\_SR805\_07706A.zip" for HDMI microprocessor. (File name depends on the version)  
Unzip "HDMIUpdater\_SR805\_07706A.zip" in advance.

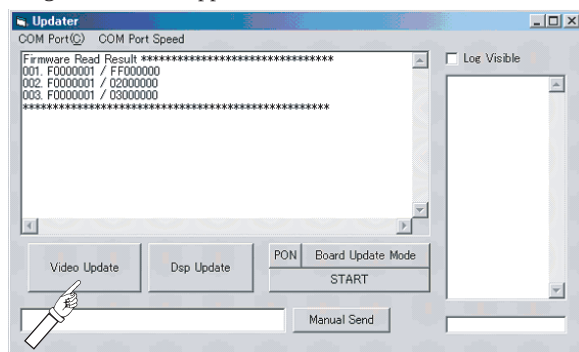
#### B: Connection and Setup

1. While the target unit is off, connect the unit and PC with RS232 straight through cable.  
If RS232 cable is not available, connect 0JFLASH and 0JFLASHEX to RS232 port of the PC, and then connect the FFC of the jig to the connector slot on the rear panel of PR-SC885.
2. Power on the PC.

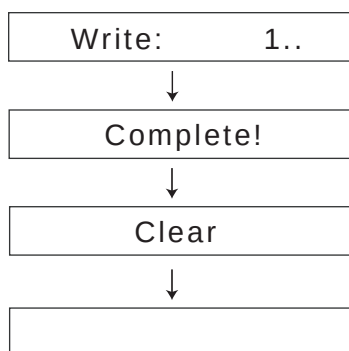


### HDMI Update Procedure

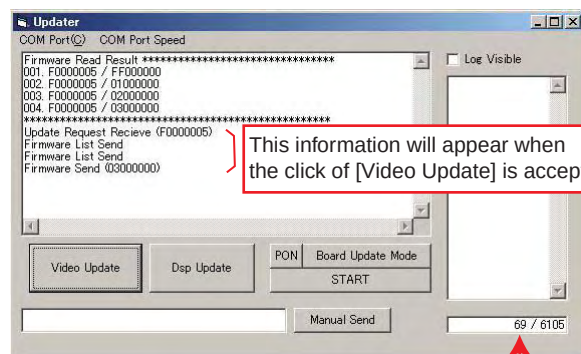
1. Double click "Update.exe" in the unzipped folder "HDMIUpdater\_SR805\_07706A" (Folder name depends on the version.)  
The following window will appear.



2. Click "Video Update" button. The update takes about 5 minutes.  
The message on Front Display will change as follows.



The unit is put into the Standby mode.



The number is going up as writing is proceeding.

3. After the update ends, turn off the unit's main power switch or pull the power cord off the wall socket.
4. Remove the jig from the unit and power on the unit again. Confirm the new version number.

## FIRMWARE UPDATE -4

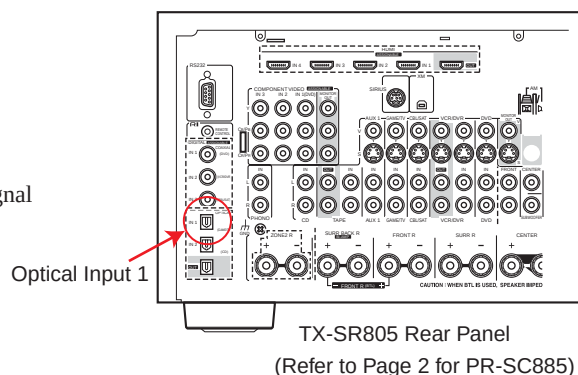
### Preparation for Update (DSP, all in one)

#### A: Hardware and Software

1. Blank CD-R, PC, CD-R writing software.
2. Writing soft: "CD\_SR805123\_07601A\_07518A\_07820B.wav"  
(File name depends on the version.)  
Store it in a blank CD-R as a music CD in advance.
3. CD player with Optical output terminal.  
Note: Some CD players and a lot of DVD players process audio signal before output. Such players cannot be used for this update.
4. Optical cable.

#### B: First Procedure

1. Connect a CD player with the target unit via Optical Input 1.
2. Power on the unit and wait for more than 10 seconds.



### DSP Update Procedure

1. Press and hold down [DISPLAY] button and then press [STANDBY/ON] button to show Main FW version when the unit is powered on.

<e.g.>

Main:  
87 1.03/07903A

2. Press [Tone +] button while the Main version is displayed. Then, 1st DSP FW version will be displayed.

<e.g.>

DSP 1st:  
SR8051:07601A

3. Press [Return] button while the target DSP version is displayed. Then, the following message will appear.

S/PDIF Update..

4. Play the DSP FW CD-R with the CD player. After playback starts, the messages will change as below.

#### Estimated Time in CD player

0:15

Writing...  
1st DSP

0:30

S/PDIF Update..

0:42

Writing...  
2nd DSP

0:52

S/PDIF Update..

1:04

Writing...  
3rd DSP

If playback is finished without the above message, please try again.

Note: Some DVD players are not suitable for this update. If writing results in failure, use another model of player.

**DURING WRITING, DO NOT TURN OFF THE POWER and DO NOT DISCONNECT OPTICAL CABLE.**

If writing is stopped in the middle, Flash IC may need replacing.

After writing of 3rd DSP ends, the message in Step 3 will appear again.

Make sure that no more "Writing ... DSP" will appear.

S/PDIF Update..

#### Check Points:

1. "Writing... 1st DSP" was shown.
2. CD player has been playing for more than 1 minutes + 4 seconds and finishes playback.

5. Press [Standby/On] button and see Front Display change as below.

Clear

The unit is put into the Standby mode.

6. Turn on the unit and confirm the new version number.

## DEBUG MODE-1

The operations of DSP and DIR etc are able to be checked by the information displayed on FL in this DEBUG MODE.  
This information may help to pursue the cause of trouble.

### To set in DSP debug mode

1. Press and hold down DISPLAY button, then press STANDBY/ON button while the unit is powered on.  
The version number of microprocessor will be displayed only for 3 seconds.

<Ex.> *Main:*  
*87 1.03/07903A*

2. Press TONE+ button within 3 seconds above, the version number of 1st DSP will be displayed.

<Ex.> *DSP 1st:*  
*SR8051:07601A*

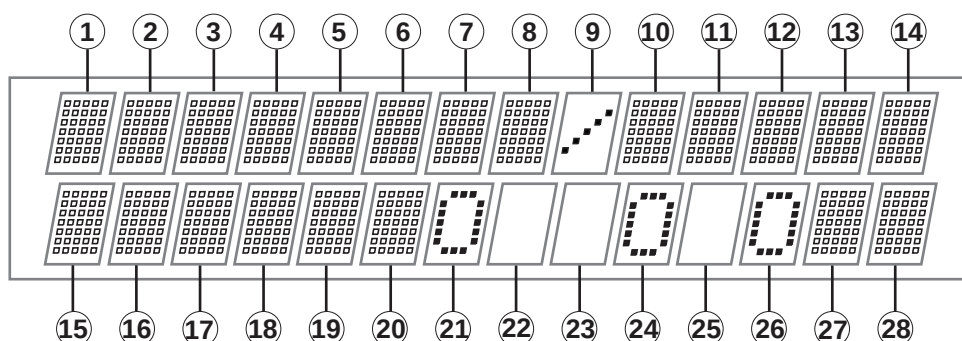
3. Press DISPLAY button while the 1st DSP version is displayed. The status of DSP and DIR will be displayed.

<Ex.> *E1A48K0N/0FFFPo*  
*FFFFFF0 0 000*

### To exit

Press STANDBY/ON button.

### Content of display



① DIR Input Lock  
E = UNLOCK  
= LOCK

② DIR Input RX  
0 = None  
1 = COAX1  
2 = COAX2  
3 = COAX3  
4 = OPT 1  
5 = OPT 2  
6 = OPT 3(Not Used)  
7 = OPT(FRONT)  
8 = HDMI1  
9 = HDMI2  
A = HDMI3  
B = HDMI4  
C = NET(Not Used)

③ DIR/ADC  
D = Digital(SPDIF)  
A = Analog  
M = Analog Multich  
p = PCM Fixed  
d = DTS Fixed  
I = Digital(I2S\_1)  
S = Digital(I2S\_4)  
d = Digital(DSD)

⑦ DIR Detect Type  
0 = Analog  
1 = PCM  
2 = Not PCM  
3 = Data  
4 = DTS CD (Not used)  
5 = Multich  
6 = Not Decided

④ - ⑥ Sampling Frequency and Emphasis

32K = 32 kHz without Emphasis  
44K = 44.1 kHz without Emphasis  
48K = 48kHz without Emphasis  
64K = 64 kHz  
88K = 88.2 kHz  
96K = 96 kHz  
176 = 176.4 kHz  
192 = 192 kHz  
32e = 32 kHz with Emphasis  
44e = 44.1 kHz with Emphasis  
48e = 48 kHz with Emphasis



## DEBUG MODE-2

### Content of display(Continued)

#### ⑧ CODEC CLOCK MODE

N = Normal  
U = Up Sampling  
H = High Sampling (Double Rate)  
D = Down Sampling  
Q = Quad Rate

#### ⑨ Not Used(Slash)

#### ⑩ DSP Port

bit0 = NIC — (Normal state)  
bit1 = DEC  
bit2 = BUSY  
bit3 = Exec Wait } (Abnormal state)

#### ⑪-⑫ DSP Sequence

26 = Not Free  
2F = Mute Control  
FF = Free

#### ⑬ DSP Detect Format

P = PCM (Analog)  
D = Dolby Digital  
d = DTS  
A = AAC  
S = DSD  
p = Dolby Digital+  
T = TrueHD  
H = DTS-HD High Resolution  
M = DTS-HD Master Audio  
? = UNKNOWN

#### ⑭ DSP Decode

o = Decode OK  
x = Decode NG

#### ⑮-⑯ 1st DSP Sequence

04-0D = Boot  
10-17 = Update Mode  
20-33 = DSP Setting  
FF = Free

#### ⑰-⑱ 2nd DSP Sequence

04-0D = Boot  
10-17 = Update Mode  
20-33 = DSP Setting  
FF = Free

#### ⑲-⑳ 3rd DSP Sequence

04-0D = Boot  
10-17 = Update Mode  
20-33 = DSP Setting  
E0-E2 = Auto Speaker Setup  
FF = Free

#### ㉑-㉒ Not Used

#### ⑲-⑳ MPU MUTE Output Cause

bit0 = Selector IC  
bit1 = Effector  
bit2 = DSP  
bit3 = DIR  
bit4 = HDMI  
bit5 = XM  
bit6 = Auto Speaker Setup  
bit7 = Speaker Config

## Trouble Shooting by DEBUG MODE

This debug mode will help in digital audio no sound trouble.  
Check information on FL display and the related devices or circuits.

#### Note:

MPU is short for Micro Processor: Q7001.  
1st DSP: Q3401, 2nd DSP: Q3501, 3rd DSP: Q3601  
DIR: Q3041  
DAC: Q3701, Q3721, Q3741, Q3761, Q3781  
Flash ROM: Q3451, Q3551, Q3651  
SDRAM: Q3461, Q3471, Q3561, Q3661  
Audio Selector: Q4029

| Digit no on FL | Symptom on display                       | Cause                                     | Check                                      |
|----------------|------------------------------------------|-------------------------------------------|--------------------------------------------|
| ①              | "E" is displayed                         | No input signal to DIR.                   | Related devices from digital input to DIR. |
| ④ - ⑥          | Displayed freq. is different from input  | No input signal to DIR.                   | Related devices from digital input to DIR. |
| ⑦              | Displayed format is different from input | No input signal to DIR.                   | Related devices from digital input to DIR. |
| ⑬              | Displayed format is different from input | Input signal to DSP is no good.           | Related devices from DIR to DSP.           |
| ⑭              | "x" is displayed                         | Interface between DSP and MPU is no good. | Related devices from MPU to DSP.           |

## DEBUG MODE-3

### Trouble Shooting by Debug Mode (Continued)

(Continued)

| Digit no on FL | Symptom on display                                                | Cause                                                       | Check                                                                                                                                                                        |
|----------------|-------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ①9 - ②0        | This identifies IC which outputs error                            | Some IC outputs error to MPU.                               | Audio Selector, DSP, DIR & related devices.                                                                                                                                  |
| ⑩              | Continue to display “1”                                           | Interface between DSP and MPU is no good.                   | Related devices from MPU to DSP.                                                                                                                                             |
|                | Continue to display “2”                                           | Connection from DIR to DSP is no good.                      | Related devices from DIR to DSP.                                                                                                                                             |
|                | Continue to display “3” to “7”                                    | Interface between DSP and MPU is no good.                   | Related devices from MPU to DSP.                                                                                                                                             |
|                | Continue to display “8” to “F”                                    | DSP Sequence is no good.                                    | Check ⑮ - ⑳ items.                                                                                                                                                           |
| ⑮ - ⑳          | Continue to display “03”                                          | Communication between DSP and MPU is no good.               | Check connection between DSP and MPU.<br>Power supply pin, reset port and clock input of DSP.<br>Flash ROM program may be no good.<br>DSP or MPU is broken.                  |
|                | Continue to display “05”                                          | Writing from MPU to DSP is no good.                         | Flash ROM program is no good, upgrade.<br>DSPSDO pin of MPU.<br>Flash ROM or SDRAM is no good, replace.<br>DSP or MPU is broken, replace.                                    |
|                | Continue to display “08”                                          | DSP program is no good.                                     | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.                                              |
|                | Continue to display “09” to “0C”                                  | DSP program is no good.                                     | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.                                              |
|                | Continue to display “17”                                          | Powered off during DSP program update.                      | Press STANDBY/ON button while pushing.<br>VCR/DVR button when the unit is powered on.                                                                                        |
|                | Display “21”, then return and signal format indicator is flashing | DSP program is no good.                                     | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.<br>Clock freq. to DSP.                       |
|                | Continue to display “22” to “24”                                  | DSP program is no good or<br>Audio clock to DSP is no good. | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.<br>Clock freq. to DSP or Audio clock to DSP. |
|                | Continue to display “30” to “33”                                  | DSP program is no good or<br>Audio clock to DSP is no good. | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.                                              |
|                | Continue to display “26” to “2F”                                  | DSP setting is failed.                                      | Flash ROM program is no good, upgrade.<br>Flash ROM or SDRAM is broken, replace.<br>Check connection between DSP and Flash ROM.                                              |

## &lt;Note&gt;

- 1.Parts marked by "**NSP**" are generally unavailable because they are not in our Master Spare Parts List.
- 2.ICs marked by "**NRP**" are not replaceable because some pins on bottom are unable to see and solder..

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK  
! ARE CRITICAL FOR RISK OF FIRE AND  
ELECTRIC SHOCK. REPLACE ONLY WITH PART  
NUMBER SPECIFIED.

## &lt;Notes&gt;

[U] : Made in Japan  
[M] : Made in Malaysia

## EXPLODED VIEW PARTS LIST

| REF. NO. | NAME       | DESCRIPTION     | Q'TY | PART NO(SN) | REMARKS |
|----------|------------|-----------------|------|-------------|---------|
| A056     | SCREW      | 4TTC+8C(3BC)    | 10   | 830440089GR |         |
| A058     | LABEL      | (PT)            | 1    | 29390046    |         |
| A066     | CHASSIS    | .               | 1    | ---         | NSP     |
| A067     | BUTYL      | 3(5m)           | 1    | WS3628      | [U]     |
| A067     | CUSHION    | (BUTYL)         | 1    | 28141748    | [M]     |
| A068     | LEG        | (AS)            | 4    | 27175438    |         |
| A070     | CUSHION    | .               | 8    | 28141637    |         |
| A072     | BRACKET    | (PT2)           | 1    | 27131028B   |         |
| A076     | HOLDER     | (SPD-6)         | 2    | 27191308    |         |
| A078     | HOLDER     | KGPS-10RF       | 3    | 27190813    |         |
| A084     | RETAINER   | (F)             | 2    | 27142073    |         |
| A085     | SCREW      | 3TTB+8B(3CM)SR  | 36   | 801637      |         |
| A086     | BRACKET    | (F)             | 1    | 27131020B   | [U]     |
| A086     | BRACKET    | (F)             | 1    | 27131020C   | [M]     |
| A087     | TAPE       | TAPE(CLOTH-16U) | 1    | 29110083    |         |
| A089     | TAPE       | TAPE(CLOTH-8U)  | 1    | 29110082    |         |
| A090     | HOLDER     | SPM-4           | 5    | 27191154    |         |
| A092     | HOLDER     | KGLS-10RT       | 1    | 27190428A   |         |
| A094     | HOLDER     | KGLS-10S        | 2    | 27190896    |         |
| A096     | HOLDER     | KGPS-6RF        | 1    | 27191112    |         |
| A098     | HOLDER     | KGLS-12S        | 1    | 27190062    |         |
| A100     | HOLDER     | HOLDER KGLS-18S | 1    | 27190470    |         |
| A104     | HOLDER     | KGLS-22S        | 1    | 27190369    |         |
| A106     | HOLDER     | KGLS-12RT       | 1    | 27190266    |         |
| A107     | CLAMP      | HL-18-0         | 1    | 27301394    |         |
| A108     | CLAMP      | WS-2NS          | 6    | 27300833    |         |
| A109     | HOLDER     | KGLS-6RT        | 4    | 27190693A   |         |
| A110     | REAR PANEL | PR-SC885DD      | 1    | 27123724    | [U]     |
| A110     | REAR PANEL | MDD             | 1    | 27123863    | [M]     |
| A111     | SCREW      | 3P+6FN(3BC)     | 6    | 82143006GR  |         |

|       |            |                |    |             |     |
|-------|------------|----------------|----|-------------|-----|
| A112  | SCREW      | 3TTB+8B(3BC)   | 86 | 838430088GR |     |
| A113  | SCREW      | 3P+6FN(3BC)    | 1  | 82143006GR  |     |
| A114  | SCREW      | 4TTB+8C(3BC)   | 8  | 838440089GR |     |
| A116  | WASHER     | W3*10F(3BC)    | 1  | 87643010GR  |     |
| A118  | TRM        | E              | 1  | 25060151    |     |
| A120  | WIRE TIE   | BSK-1          | 4  | 260208      |     |
| A122a | LABEL      | (E-CON)        | 1  | 29364978    |     |
| A128  | SHLD CASE  | (C)            | 1  | 27225171    |     |
| A132  | RETAINER   | (E)            | 1  | 27142078    |     |
| A133  | SCREW      | 3TTB+8B(3CM)SR | 1  | 801637      |     |
| A137  | CUSHION    | (T3*W35*D10)   | 3  | 28141741    |     |
| A139  | BUTYL      | 3(5m)          | 1  | WS3628      | [U] |
| A139  | CUSHION    | (BUTYL)        | 1  | 28141748    | [M] |
| A140  | BUTYL      | 3(5m)          | 1  | WS3628      | [U] |
| A140  | CUSHION    | (BUTYL)        | 1  | 28141748    | [M] |
| A141  | IB CUSHION | W15*3t TAPE    | 1  | 28141585    |     |
| A142  | IB CUSHION | W15*3t TAPE    | 1  | 28141585    |     |
| A143  | IB CUSHION | W15*3t TAPE    | 1  | 28141585    |     |
| A144  | BUTYL      | 3(5m)          | 1  | WS3628      | [U] |
| A144  | CUSHION    | (BUTYL)        | 1  | 28141748    | [M] |
| A160  | TAPE       | TAPE(CLOTH-8U) | 1  | 29110082    |     |
| A162  | TAPE       | TAPE(CLOTH-8U) | 1  | 29110082    |     |
| A170  | SPACER     | .              | 2  | 27270439    |     |
| A172  | BUSHING    | L125           | 1  | 28170004    |     |
| A201  | BADGE      | BADGE          | 1  | 28135244    |     |
| A205  | HOLDER     | (L)(B)         | 1  | 27191294    |     |
| A207  | HOLDER     | (R)(B)         | 1  | 27191297A   |     |
| A209  | HINGE      | (L)(B)         | 1  | 28180184B   |     |
| A211  | HINGE      | (R)(B)         | 1  | 28180187B   |     |
| A213  | RETAINER   | (DOOR)         | 1  | 27142060A   |     |
| A215  | RETAINER   | (HOLDER)       | 1  | 27142061    |     |
| A217  | PUSH LATCH | 091Y           | 1  | 27230047    |     |
| A219  | DAMPER     | 29T0-F         | 1  | 27301960    |     |
| A221  | GEAR       | .              | 1  | 27301946A   |     |
| A223  | SCREW      | 2TTB+8B(3CM)   | 1  | 838120088GR |     |
| A230  | TAPE       | TAPE(CLOTH-8U) | 1  | 29110082    |     |
| A239  | CUSHION    | t1.0*5*5       | 1  | 28141511    |     |
| A251  | F BRACKET  | (B)            | 1  | 27111477B   |     |
| A253  | KNOB       | (PA)AS         | 1  | 28326530A   |     |
| A255  | FACET      | (VOL)          | 1  | 28200023A   |     |
| A259  | B PLATE    | (B)            | 1  | 28133428    |     |
| A261  | RETAINER   | (PWB)          | 1  | 27142064    |     |
| A262  | CUSHION    | (T10*A40*B10)  | 2  | 28141747    |     |
| A270  | CUSHION    | t5*30*5        | 2  | 28141562    |     |
| A271  | TAPE       | TAPE(CLOTH-8U) | 1  | 29110082    |     |
| A281  | KNOB       | (VOL)AS(B)     | 1  | 28326557    |     |
| A283  | CUSHION    | .              | 3  | 28141637    |     |
| A301  | F PANEL    | .P805BC        | 1  | 27213039B   |     |
| A303  | CLEAR PLT  | .805BD         | 1  | 28192146B   |     |
| A311  | DOOR       | .P885BD        | 1  | 28148692A   |     |

|            |                                    |               |     |             |     |
|------------|------------------------------------|---------------|-----|-------------|-----|
| A313       | PLATE                              | (DOOR)805BD   | 1   | 27262783    |     |
| A400       | COVER                              | (B)           | 1   | 28184999    |     |
| A410       | LABEL                              | (CAUTION)     | 1   | 29363796    |     |
| A411       | LABEL                              | HOOKUP-ONKYO  | 1   | 29363194    |     |
| F2501      | FUSE                               | 4A-UL/T-233   | 1   | 252325GR    | !   |
| F2501 or   | FUSE                               | 4A-T/UL-ST2   | (1) | 252257GR    | !   |
| F2502      | FUSE                               | 4A-UL/T-233   | 1   | 252325GR    | !   |
| F2502 or   | FUSE                               | 4A-T/UL-ST2   | (1) | 252257GR    | !   |
| F5000      | FUSE                               | 4A-UL/T-233   | 1   | 252325GR    | !   |
| F5000 or   | FUSE                               | 4A-T/UL-ST2   | (1) | 252257GR    | !   |
| F5001      | FUSE                               | 4A-UL/T-233   | 1   | 252325GR    | !   |
| F5001 or   | FUSE                               | 4A-T/UL-ST2   | (1) | 252257GR    | !   |
| F5002      | FUSE                               | 2.5A-UL/T-233 | 1   | 252321GR    | !   |
| F5002 or   | FUSE                               | 2.5A-T/UL-ST2 | (1) | 252254GR    | !   |
| F5003      | FUSE                               | 2.5A-UL/T-233 | 1   | 252321GR    | !   |
| F5003 or   | FUSE                               | 2.5A-T/UL-ST2 | (1) | 252254GR    | !   |
| F9000      | FUSE                               | 5A-UL/T-233   | 1   | 252326GR    | !   |
| F9000 or   | FUSE                               | 5A-T/UL-ST2   | (1) | 252258GR    | !   |
| F9301      | FUSE                               | 4A-UL/T-233   | 1   | 252325GR    | !   |
| F9301 or   | FUSE                               | 4A-T/UL-ST2   | (1) | 252257GR    | !   |
| P101       | FFC                                | NCFC7-134512  | 1   | 2047134512  |     |
| P102       | FFC                                | NCFC7-181012  | 1   | 2047181012  |     |
| P205       | FFC                                | NCFC5-092512  | 1   | 2045092512  |     |
| P2801      | FFC                                | NCFC7-311012  | 1   | 2047311012  |     |
| P7501      | FFC                                | NCFC7-405522  | 1   | 2047405522  |     |
| T903       | P TRANS                            | NPT-1555D     | 1   | 2301902     | !   |
| T904       | P TRANS                            | NPT-1556D     | 1   | 2301906     | !   |
| T905       | P TRANS                            | NPT-1558D     | 1   | 2301911     | !   |
| <b>U01</b> | <b>AMPLIFIER PC board ass'y</b>    | NAASP-9050-1K | 1   | 1B170550-1K |     |
| U02        | PHONO PC board ass'y               | NAASP-9051-1K | 1   | 1B170551-1K |     |
| U03        | VIDEO PC board ass'y               | NAVD-9052-1K  | 1   | 1B170552-1K |     |
| U04        | CONNECTOR PC board ass'y           | NAETC-9053-1K | 1   | 1B170553-1K |     |
| U05        | CONNECTOR PC board ass'y           | NAETC-9054-1K | 1   | 1B170554-1K |     |
| <b>U06</b> | <b>POWER SUPPLY PC board ass'y</b> | NAASP-9057-2A | 1   | 1B170557-2A |     |
| U07        | INLET PC board ass'y               | NAASP-9058-2A | 1   | 1B170558-2A |     |
| <b>U08</b> | <b>DSP PC board ass'y</b>          | NADSP-9072-1A | 1   | 1B170572-1A |     |
| <b>U09</b> | <b>DAC PC board ass'y</b>          | NADG-9074-1N  | 1   | 1B170574-1N |     |
| U10        | MICROPROCESSOR PC board ass'y      | NAAR-9075-1N  | 1   | 1B170575-1N |     |
| U12        | XM PC board ass'y                  | NARF-9077-1N  | 1   | 1B170577-1N |     |
| U13        | HOLDER PC board ass'y              | NAETC-9078-1N | 1   | 1B170578-1N |     |
| U14        | E-CONTROL PC board ass'y           | NALAN-9079-1N | 1   | 1B170579-1N |     |
| U15        | AMPLIFIER PC board ass'y           | NAASP-9080-1N | 1   | 1B170580-1N |     |
| U16        | AMPLIFIER PC board ass'y           | NAETC-9073-1N | 1   | 1B170573-1N |     |
| <b>U17</b> | <b>DISPLAY PC board ass'y</b>      | NADIS-9085-1M | 1   | 1B170585-1M |     |
| U18        | DISPLAY PC board ass'y             | NADIS-9086-1M | 1   | 1B170586-1M |     |
| U19        | HEADPHONE PC board ass'y           | NAETC-9088-1M | 1   | 1B170588-1M |     |
| U20        | POWER SUPPLY PC board ass'y        | NAPS-9089-1M  | 1   | 1B170589-1M |     |
| U21        | FRONT OPT PC board ass'y           | NAETC-9090-1M | 1   | 1B170590-1M |     |
| U22        | VOLUME PC board ass'y              | NAETC-9091-1M | 1   | 1B170591-1M |     |
| U23        | HOLDER PC board ass'y              | NAETC-9092-1M | 1   | -----       | NSP |



|     |                                 |               |   |                    |     |
|-----|---------------------------------|---------------|---|--------------------|-----|
| U24 | HOLDER PC board ass'y           | NAETC-9093-1M | 1 | -----              | NSP |
| U25 | BALANCE TERMINAL PC board ass'y | NATRM-9108-1E | 1 | 1B170508-1E        |     |
| U26 | HDMI PC board ass'y             | NAHDM-9114-1A | 1 | 1B170514-1A_0223A2 |     |
| U27 | HD RADIO PC board ass'y         | NARF-9118-1A  | 1 | 1B170518-1A        |     |

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## PC BOARD PARTS LIST

|     |                                    |
|-----|------------------------------------|
| U01 | AMPLIFIER PC BOARD (NAASP-9050-1K) |
| U02 | PHONO PC BOARD (NAASP-9051-1K)     |
| U03 | VIDEO PC BOARD (NAVD-9052-1K)      |
| U04 | CONNECTOR PC BOARD (NAETC-9053-1K) |
| U05 | CONNECTOR PC BOARD (NAETC-9054-1K) |

| REF. NO. | PART NAME | DESCRIPTION        | Q'TY | PART NO. (SN) | REMARKS |
|----------|-----------|--------------------|------|---------------|---------|
| Q2001    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2001 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2002    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2002 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2003    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2003 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2004    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2004 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2005    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2005 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2006    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2007    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2008    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2009    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2010    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2011    | IC        | TC74HC4051AF(EL_F) | 1    | 222740515R2   |         |
| Q2012    | IC        | NJM2587V           | 1    | 22242380R2    |         |
| Q2013    | IC        | NJM2587V           | 1    | 22242380R2    |         |
| Q2014    | IC        | MM1512             | 1    | 22241849R2    |         |
| Q2015    | TR        | RN1441             | 1    | 2215410R2     |         |
| Q2016    | TR        | RN1441             | 1    | 2215410R2     |         |
| Q2017    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2017 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2018    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2018 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2019    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2019 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2020    | TR        | RN1444-A           | 1    | 2216031R2     |         |
| Q2020 or | TR        | RN1444-B           | (1)  | 2216032R2     |         |
| Q2023    | TR        | KRA102S            | 1    | 2216220R2     |         |
| Q2023 or | TR        | RN2402             | (1)  | 2214530R2     |         |
| Q2024    | TR        | KTA1504-GR         | 1    | 2216185R2     |         |
| Q2024 or | TR        | 2SA1162-GR         | (1)  | 2214375R2     |         |

|          |           |                    |     |              |
|----------|-----------|--------------------|-----|--------------|
| Q2025    | TR        | KRA102S            | 1   | 2216220R2    |
| Q2025 or | TR        | RN2402             | (1) | 2214530R2    |
| Q2026    | TR        | KTA1504-GR         | 1   | 2216185R2    |
| Q2026 or | TR        | 2SA1162-GR         | (1) | 2214375R2    |
| Q2027    | IC        | NJU7312AM          | 1   | 22242210R2   |
| Q2201    | IC        | NJW1321FP1         | 1   | 22242381R3   |
| Q2204    | TR        | 2SK3019            | 1   | 2216520R2    |
| Q2205    | TR        | 2SK3019            | 1   | 2216520R2    |
| Q2206    | IC        | NJM2586AM          | 1   | 22242420R2   |
| Q2207    | IC        | NJM2586AM          | 1   | 22242420R2   |
| Q2501    | IC        | SI8008TM           | 1   | 22242323R2   |
| Q2502    | TR        | 2SC2712-GR         | 1   | 2213145R2    |
| Q2503    | TR        | RN1402             | 1   | 2214470R2    |
| Q2504    | IC        | NJM2388F09         | 1   | 22242383     |
| Q2504A   | SCREW     | 3P+10FN(3BC)       | 1   | 82143010GR   |
| Q2504B   | HEAT SINK | RAD-196            | 1   | 27160545     |
| Q2505    | IC        | NJM2386ADL3-05     | 1   | 22242382R2   |
| Q2506    | TR        | RN2402             | 1   | 2214530R2    |
| Q2507    | TR        | 2SD1468S-R         | 1   | 2215024T     |
| Q2509    | IC        | 7905FA(NJM7905FA)  | 1   | 222790054JRC |
| Q2509A   | SCREW     | 3P+10FN(3BC)       | 1   | 82143010GR   |
| Q2511    | TR        | 2SC2712-GR         | 1   | 2213145R2    |
| Q2512    | TR        | 2SA1162-GR         | 1   | 2214375R2    |
| Q2601    | TR        | 2SB1240-R          | 1   | 2213794T     |
| Q2601 or | TR        | 2SB1240-Q          | (1) | 2213793T     |
| Q2601 or | TR        | 2SB1240-P          | (1) | 2213792T     |
| Q2602    | TR        | KRC102S            | 1   | 2216190R2    |
| Q2602 or | TR        | RN1402             | (1) | 2214470R2    |
| Q2603    | TR        | 2SB1240-R          | 1   | 2213794T     |
| Q2603 or | TR        | 2SB1240-Q          | (1) | 2213793T     |
| Q2603 or | TR        | 2SB1240-P          | (1) | 2213792T     |
| Q2604    | TR        | KRC102S            | 1   | 2216190R2    |
| Q2604 or | TR        | RN1402             | (1) | 2214470R2    |
| Q2605    | TR        | 2SB1240-R          | 1   | 2213794T     |
| Q2605 or | TR        | 2SB1240-Q          | (1) | 2213793T     |
| Q2605 or | TR        | 2SB1240-P          | (1) | 2213792T     |
| Q2606    | TR        | KRC102S            | 1   | 2216190R2    |
| Q2606 or | TR        | RN1402             | (1) | 2214470R2    |
| Q2607    | TR        | RN2402             | 1   | 2214530R2    |
| Q2608    | PHT CP    | PS2501AL-1         | 1   | 24120141R2   |
| Q2609    | PHT CP    | PS2501AL-1         | 1   | 24120141R2   |
| Q4001    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4002    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4011    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4012    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4013    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4014    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4015    | IC        | NE5532APSR         | 1   | 22242283R2   |
| Q4017    | TR        | 2SC2240-BL(TPE2_F) | 1   | 2211406T     |
| Q4018    | TR        | 2SC2240-BL(TPE2_F) | 1   | 2211406T     |

|          |    |                    |      |            |  |
|----------|----|--------------------|------|------------|--|
| Q4019    | TR | 2SC2240-BL(TPE2_F) | 1    | 2211406T   |  |
| Q4020    | TR | 2SC2240-BL(TPE2_F) | 1    | 2211406T   |  |
| Q4021    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4022    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4023    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4025    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4026    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4029    | IC | TC94A46CFG         | 1    | 22242414R3 |  |
| Q4029 or | IC | TC94A46FG          | ( 1) | 22242103R3 |  |
| Q4030    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4031    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4032    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4040    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4041    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4042    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4043    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4205    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4206    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4207    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4208    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4209    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4210    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4211    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4212    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4213    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4214    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4215    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4216    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4301    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4302    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4303    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4304    | IC | NJU7312AM          | 1    | 22242210R2 |  |
| Q4305    | IC | NJU7313AM          | 1    | 22242211R2 |  |
| Q4306    | IC | NJU7311AM          | 1    | 22242209R2 |  |
| Q4401    | TR | 2SA950-Y           | 1    | 2211504T   |  |
| Q4402    | TR | 2SC2120-Y          | 1    | 2211164T   |  |
| Q4403    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4404    | TR | 2SA1162-GR         | 1    | 2214375R2  |  |
| Q4405    | IC | CS3318-CQZR        | 1    | 22242404R2 |  |
| Q4406    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4407    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4408    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4501    | TR | 2SC2235-Y(TPE6_F)  | 1    | 2211654T   |  |
| Q4502    | TR | 2SC2235-Y(TPE6_F)  | 1    | 2211654T   |  |
| Q4503    | TR | 2SA965-Y(TPE6_F)   | 1    | 2211644T   |  |
| Q4504    | TR | 2SA965-Y(TPE6_F)   | 1    | 2211644T   |  |
| Q4505    | IC | NE5532APSR         | 1    | 22242283R2 |  |
| Q4506    | TR | 2SC2712-GR         | 1    | 2213145R2  |  |
| Q4610    | TR | RN1441             | 1    | 2215410R2  |  |
| Q4611    | TR | RN1441             | 1    | 2215410R2  |  |

|          |         |                |     |             |  |
|----------|---------|----------------|-----|-------------|--|
| Q4612    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4613    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4614    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4615    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4616    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4617    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4620    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4621    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4622    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4623    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4624    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4625    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4626    | TR      | RN1441         | 1   | 2215410R2   |  |
| Q4627    | TR      | RN1441         | 1   | 2215410R2   |  |
| D2003    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2003 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2004    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2004 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2005    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2005 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2006    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2006 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2203    | ZENER D | UDZ3.3B        | 1   | 224490330R2 |  |
| D2501    | C-DIODE | CRS09(TE85L_Q) | 1   | 223274R2    |  |
| D2502    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2502 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2503    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2503 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2504    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2504 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2505    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2505 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2506    | ZENER D | UDZS10B        | 1   | 224551000R2 |  |
| D2507    | ZENER D | UDZS10B        | 1   | 224551000R2 |  |
| D2508    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2508 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2509    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2509 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2510    | DIODE   | D10XB60H       | 1   | 22380337F   |  |
| D2511    | DIODE   | RL1N4003       | 1   | 22380260T   |  |
| D2512    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2512 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2513    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2513 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2601    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2601 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2602    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2602 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |
| D2603    | C-DIODE | 1SS352         | 1   | 223234R2    |  |
| D2603 or | C-DIODE | 1SS355         | (1) | 223269R2    |  |

|          |            |                    |     |             |
|----------|------------|--------------------|-----|-------------|
| D2604    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D2604 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D2605    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D2605 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D2606    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D2606 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D2607    | DIODE      | RL1N4003           | 1   | 22380260T   |
| D4001    | ZENER D    | UDZS5.6B           | 1   | 224550560R2 |
| D4002    | ZENER D    | UDZS5.6B           | 1   | 224550560R2 |
| D4401    | ZENER D    | UDZS9.1B           | 1   | 224550910R2 |
| D4402    | ZENER D    | UDZS9.1B           | 1   | 224550910R2 |
| D4403    | ZENER D    | UDZ3.3B            | 1   | 224490330R2 |
| D4404    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4404 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4405    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4405 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4501    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4501 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4502    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4502 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4503    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4503 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4504    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4504 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4505    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4505 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4506    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4506 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4507    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4507 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4508    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4508 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| D4509    | C-DIODE    | 1SS352             | 1   | 223234R2    |
| D4509 or | C-DIODE    | 1SS355             | (1) | 223269R2    |
| L2501    | CHOKE COIL | BLM21PG221SN1      | 1   | 230949R2    |
| L2502    | CHOKE COIL | NCH-2541           | 1   | 231363K470  |
| L2601    | EMIFIL     | BK1608LM182-T      | 1   | 230958R1    |
| L2602    | EMIFIL     | BK1608LM182-T      | 1   | 230958R1    |
| L2603    | EMIFIL     | BK1608LM182-T      | 1   | 230958R1    |
| L2604    | EMIFIL     | BK1608LM182-T      | 1   | 230958R1    |
| C2001    | C-CERA C   | CK725F1E-104Z1     | 1   | 332161040R1 |
| C2002    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |
| C2003    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |
| C2004    | C-CERA C   | CK725F1E-104Z1     | 1   | 332161040R1 |
| C2005    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |
| C2006    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |
| C2007    | C-CERA C   | CK725B1H-102K1     | 1   | 332101025R1 |
| C2008    | C-CERA C   | CK725F1E-104Z1     | 1   | 332161040R1 |
| C2009    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |
| C2010    | UTSP C     | CE04W50V-10M(UTSP) | 1   | 397581007T  |



|       |          |                    |   |             |  |
|-------|----------|--------------------|---|-------------|--|
| C2011 | C-CERA C | CK725B1H-102K1     | 1 | 332101025R1 |  |
| C2012 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2013 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2014 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2015 | C-CERA C | CK725B1H-102K1     | 1 | 332101025R1 |  |
| C2016 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2017 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2018 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2019 | C-CERA C | CK725B1H-102K1     | 1 | 332101025R1 |  |
| C2020 | C-CERA C | CK725B1H-102K1     | 1 | 332101025R1 |  |
| C2024 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2025 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2026 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2027 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2028 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2029 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2030 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2031 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2032 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2033 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2034 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2035 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2036 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2037 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2038 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2043 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2044 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2045 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2046 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2047 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2048 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2049 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2050 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2051 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2052 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2053 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2054 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2055 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2056 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2057 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2058 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2061 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2062 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2063 | UTSP C   | CE04W50V-22M(UTSP) | 1 | 397582207T  |  |
| C2064 | VR C     | CE04W16V-100M(VR)  | 1 | 394641017T  |  |
| C2065 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2066 | C-CERA C | CK725B1H-103K1     | 1 | 332101035R1 |  |
| C2067 | VR C     | CE04W6.3V-220M(VR) | 1 | 394622217T  |  |
| C2068 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2069 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |

|       |          |                    |   |             |  |
|-------|----------|--------------------|---|-------------|--|
| C2070 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2071 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2072 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2073 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2074 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2075 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2076 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2077 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2078 | VR C     | CE04W6.3V-470M(VR) | 1 | 394624717T  |  |
| C2082 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2083 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2084 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2085 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2086 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2087 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2088 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2089 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2090 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2091 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2092 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2201 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2202 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2203 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2204 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2205 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2206 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2207 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2208 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2209 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2210 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2211 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2212 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2214 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2215 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2216 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2217 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2218 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2219 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2221 | C-CERA C | CK725B1H-102K1     | 1 | 332101025R1 |  |
| C2222 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2223 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2224 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2225 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2226 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2227 | UTSP C   | CE04W50V-1M(UTSP)  | 1 | 397580107T  |  |
| C2228 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2229 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2230 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |
| C2231 | UTSP C   | CE04W50V-10M(UTSP) | 1 | 397581007T  |  |
| C2232 | C-CERA C | CK725F1E-104Z1     | 1 | 332161040R1 |  |

|       |          |                     |   |             |  |
|-------|----------|---------------------|---|-------------|--|
| C2233 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2234 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2235 | VR C     | CE04W16V-220M(VR)   | 1 | 394642217T  |  |
| C2236 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2237 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2239 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2240 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2241 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2242 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2243 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2244 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2245 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2246 | VR C     | CE04W6.3V-220M(VR)  | 1 | 394622217T  |  |
| C2248 | VR C     | CE04W6.3V-220M(VR)  | 1 | 394622217T  |  |
| C2249 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2250 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2252 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2256 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2262 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2263 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2264 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2265 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2266 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2267 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C2501 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C2502 | C-CERA C | CK725B1H-223K1      | 1 | 332102235R1 |  |
| C2503 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C2504 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C2505 | TF C     | ECQ-V50V-104J       | 1 | 374721044T  |  |
| C2507 | VR C     | CE04W16V-10000M(VR) | 1 | 394641037S  |  |
| C2508 | VR C     | CE04W25V-2200M(VR)  | 1 | 394652227S  |  |
| C2509 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C2510 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C2511 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C2512 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C2513 | UTSP C   | CE04W50V-22M(UTSP)  | 1 | 397582207T  |  |
| C2514 | UTSP C   | CE04W50V-22M(UTSP)  | 1 | 397582207T  |  |
| C2515 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C2516 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C2601 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C2602 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C2603 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C2605 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C2607 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C2608 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4001 | TF C     | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4002 | TF C     | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4003 | C-CERA C | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4004 | C-CERA C | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4005 | C-CERA C | CC725CH1H-221J1     | 1 | 342102214R1 |  |

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|-------|---------------|---------------------|---|-------------|--|
| C4006 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4007 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4008 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4009 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4010 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4011 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4012 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4013 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4014 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4015 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4016 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4017 | TF C          | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4018 | TF C          | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4019 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4020 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4023 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4024 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4027 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4028 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4031 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4032 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4035 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4036 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4039 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4040 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4043 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4044 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4055 | TF C          | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4056 | TF C          | ECQ-B50V-221K       | 1 | 374722215T  |  |
| C4057 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4058 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4059 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4060 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4061 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4062 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4063 | TF C          | ECQ-B50V-682J       | 1 | 374726824T  |  |
| C4064 | TF C          | ECQ-B50V-682J       | 1 | 374726824T  |  |
| C4065 | TF C          | ECQ-B50V-182J       | 1 | 374721824T  |  |
| C4066 | TF C          | ECQ-B50V-182J       | 1 | 374721824T  |  |
| C4067 | UTSP C        | CE04W50V-22M(UTSP)  | 1 | 397582207T  |  |
| C4068 | UTSP C        | CE04W50V-22M(UTSP)  | 1 | 397582207T  |  |
| C4069 | TF C          | ECQ-B50V-222J       | 1 | 374722224T  |  |
| C4070 | TF C          | ECQ-B50V-222J       | 1 | 374722224T  |  |
| C4079 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4080 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4081 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4083 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4085 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4087 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |
| C4088 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |

|       |               |                     |   |             |  |
|-------|---------------|---------------------|---|-------------|--|
| C4089 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |
| C4090 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |
| C4094 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4101 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4102 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4103 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4104 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4105 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4106 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4107 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4108 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4111 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4112 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4119 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4120 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4175 | C-CERA C      | CC725SL1E-152J1     | 1 | 342131524R1 |  |
| C4176 | C-CERA C      | CC725SL1E-152J1     | 1 | 342131524R1 |  |
| C4177 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4178 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4215 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4216 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4217 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4218 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4219 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4220 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4221 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4222 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4223 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4224 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4225 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4226 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4243 | C-CERA C      | CC725CH1H-102J1     | 1 | 342101024R1 |  |
| C4302 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4311 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4312 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4313 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4314 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4315 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4316 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4319 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4320 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4321 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4322 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4401 | UTSP C        | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C4402 | UTSP C        | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C4403 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4404 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4405 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4406 | UTSP C        | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4407 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |



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| C4408 | C-CERA C      | CK725F1H-104Z1      | 1 | 332151040R1 |  |
| C4409 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4410 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4411 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4412 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4413 | UTSP C        | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C4414 | UTSP C        | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C4415 | UTSP C        | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C4416 | UTSP C        | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C4417 | UTSP C        | CE04W50V-100M(UTSP) | 1 | 397581017T  |  |
| C4419 | C-CERA C      | CC725CH1H-102J1     | 1 | 342101024R1 |  |
| C4420 | UTSP C        | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C4421 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |
| C4422 | TRM(TEST PIN) | TP00509-3C          | 1 | 25060406T   |  |
| C4423 | TF C          | ECQ-V50V-104J       | 1 | 374721044T  |  |
| C4424 | TF C          | ECQ-V50V-104J       | 1 | 374721044T  |  |
| C4501 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4502 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4503 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4504 | C-CERA C      | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C4505 | TF C          | ECQ-V50V-104J       | 1 | 374721044T  |  |
| C4600 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4601 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4602 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4603 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4604 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4605 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4606 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4607 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4610 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4611 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4612 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4613 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4614 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4615 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4616 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4617 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4622 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4623 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4624 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4625 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4626 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4627 | UTSP C        | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4630 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4631 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4632 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4633 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4634 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4635 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C4636 | C-CERA C      | CC725CH1H-221J1     | 1 | 342102214R1 |  |

|       |            |                    |   |             |  |
|-------|------------|--------------------|---|-------------|--|
| C4637 | C-CERA C   | CC725CH1H-221J1    | 1 | 342102214R1 |  |
| C4650 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4651 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4652 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4653 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4654 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4655 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4656 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| C4657 | UTSP C     | CE04W50V 47M(UTSP) | 1 | 397584707T  |  |
| R2001 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2002 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2003 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2004 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2005 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2006 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2007 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2008 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2009 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2010 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2011 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2012 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2013 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2014 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2015 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2016 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2017 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2018 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2019 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2020 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2021 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2022 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2023 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2024 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2025 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2026 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2027 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2028 | C-CARBON R | RN72K1J-750JE      | 1 | 435037504R1 |  |
| R2029 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2030 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1 |  |
| R2031 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1 |  |
| R2032 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1 |  |
| R2033 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2034 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2035 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1 |  |
| R2036 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1 |  |
| R2038 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2039 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2040 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2041 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |
| R2042 | C-CARBON R | RN72K1J-104JE      | 1 | 435031044R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R2043 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R2046 | C-CARBON R | RN72K1J-022JE | 1 | 435030224R1 |  |
| R2047 | C-CARBON R | RN72K1J-022JE | 1 | 435030224R1 |  |
| R2052 | C-CARBON R | RN72K1J-151JE | 1 | 435031514R1 |  |
| R2053 | C-CARBON R | RN72K1J-151JE | 1 | 435031514R1 |  |
| R2054 | C-CARBON R | RN72K1J-151JE | 1 | 435031514R1 |  |
| R2055 | C-CARBON R | RN72K1J-151JE | 1 | 435031514R1 |  |
| R2056 | C-CARBON R | RN72K1J-047JE | 1 | 435030474R1 |  |
| R2057 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2058 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2059 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2060 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R2061 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2062 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2063 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2064 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2065 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2066 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R2067 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2068 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2069 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R2070 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2074 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2075 | C-CARBON R | RN72K1J-680JE | 1 | 435036804R1 |  |
| R2076 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R2077 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R2078 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2079 | C-CARBON R | RN72K1J-680JE | 1 | 435036804R1 |  |
| R2080 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R2081 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R2082 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2083 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2084 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2085 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R2086 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R2201 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2202 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2203 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2204 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2205 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2206 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2207 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2208 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2209 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R2216 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2217 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R2218 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R2219 | C-CARBON R | RN72K1J-022JE | 1 | 435030224R1 |  |
| R2220 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2221 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |

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|-------|------------|----------------|---|-------------|--|
| R2222 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2223 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2227 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2228 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2229 | C-CARBON R | RN72K1J-222JE  | 1 | 435032224R1 |  |
| R2230 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2231 | C-CARBON R | RN72K1J-022JE  | 1 | 435030224R1 |  |
| R2232 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2233 | C-CARBON R | RN72K1J-330JE  | 1 | 435033304R1 |  |
| R2234 | C-CARBON R | RN72K1J-330JE  | 1 | 435033304R1 |  |
| R2235 | C-CARBON R | RN72K1J-330JE  | 1 | 435033304R1 |  |
| R2237 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2238 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2239 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2240 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2241 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2242 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2246 | C-CARBON R | RN72K1J-022JE  | 1 | 435030224R1 |  |
| R2247 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2248 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R2250 | C-CARBON R | RN72K1J-271JE  | 1 | 435032714R1 |  |
| R2259 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2260 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2261 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2262 | C-CARBON R | RN72K1J-750JE  | 1 | 435037504R1 |  |
| R2263 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R2264 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2265 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2266 | C-CARBON R | RN72K1J-033JE  | 1 | 435030334R1 |  |
| R2271 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2272 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2501 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2502 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2503 | C-CARBON R | RN72K1J-821JE  | 1 | 435038214R1 |  |
| R2504 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2505 | METAL R    | RNU1/2WCJ-0.47 | 1 | 453534794T  |  |
| R2506 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R2507 | METAL R    | RNU1/2WCJ-0.22 | 1 | 453532294T  |  |
| R2508 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R2509 | C-CARBON R | RN72K1J-473JE  | 1 | 435034734R1 |  |
| R2510 | METAL R    | RNU1WCJ-0.22   | 1 | 453632294T  |  |
| R2511 | C-CARBON R | RN72K2E-015JE  | 1 | 435220154R1 |  |
| R2512 | METAL R    | RNU2WCJ-4.7    | 1 | 452730474F  |  |
| R2513 | METAL R    | RNU2WCJ-4.7    | 1 | 452730474F  |  |
| R2514 | METAL R    | RNU2WCJ-4.7    | 1 | 452730474F  |  |
| R2515 | C-CARBON R | RN72K1J-471JE  | 1 | 435034714R1 |  |
| R2516 | C-CARBON R | RN72K1J-471JE  | 1 | 435034714R1 |  |
| R2601 | C-CARBON R | RN72K1J-101JE  | 1 | 435031014R1 |  |
| R2602 | C-CARBON R | RN72K1J-101JE  | 1 | 435031014R1 |  |
| R2603 | C-CARBON R | RN72K1J-039JE  | 1 | 435030394R1 |  |

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|-------|------------|---------------|---|-------------|--|
| R2604 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R2605 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2606 | C-CARBON R | RN72K1J-039JE | 1 | 435030394R1 |  |
| R2607 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R2608 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2609 | C-CARBON R | RN72K1J-039JE | 1 | 435030394R1 |  |
| R2610 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R2611 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R2612 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R2613 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R2614 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R2615 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R2619 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R2621 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4001 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4002 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4003 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4004 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4005 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4006 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4007 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4008 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4009 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4010 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4011 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4012 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4013 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4014 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4015 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4016 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4017 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4018 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4019 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4020 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4021 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4022 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4023 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4024 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4025 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4026 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4027 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4028 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4029 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4030 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4031 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4032 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4033 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4034 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4035 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4036 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |

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|-------|------------|---------------|---|-------------|--|
| R4037 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4038 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4041 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4042 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4043 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4044 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4045 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4046 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4047 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4048 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4051 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4052 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4053 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4054 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4055 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4056 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4057 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4058 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4061 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4062 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4065 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4066 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4069 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4070 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4073 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4074 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4077 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R4078 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R4079 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4080 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4081 | METAL O R  | RS1/2WBJ-2.7K | 1 | 443522724T  |  |
| R4082 | METAL O R  | RS1/2WBJ-2.7K | 1 | 443522724T  |  |
| R4083 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R4084 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R4085 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4086 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4087 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4088 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4089 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R4090 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R4091 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R4092 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R4093 | C-CARBON R | RN72K1J-393JE | 1 | 435033934R1 |  |
| R4094 | C-CARBON R | RN72K1J-393JE | 1 | 435033934R1 |  |
| R4095 | C-CARBON R | RN72K1J-474JE | 1 | 435034744R1 |  |
| R4096 | C-CARBON R | RN72K1J-474JE | 1 | 435034744R1 |  |
| R4097 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |
| R4098 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |
| R4099 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |
| R4100 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |



|       |             |               |   |             |  |
|-------|-------------|---------------|---|-------------|--|
| R4101 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4102 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4113 | NF CARBON R | R25J-100      | 1 | 415471014T  |  |
| R4114 | NF CARBON R | R25J-100      | 1 | 415471014T  |  |
| R4115 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4116 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4117 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4118 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4119 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4120 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4121 | C-CARBON R  | RN72K1J-222JE | 1 | 435032224R1 |  |
| R4122 | C-CARBON R  | RN72K1J-222JE | 1 | 435032224R1 |  |
| R4123 | C-CARBON R  | RN72K1J-000JE | 1 | 435030004R1 |  |
| R4124 | C-CARBON R  | RN72K1J-000JE | 1 | 435030004R1 |  |
| R4125 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4126 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4127 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4128 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4129 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4130 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4131 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4133 | C-CARBON R  | RN72K1J-220JE | 1 | 435032204R1 |  |
| R4134 | C-CARBON R  | RN72K1J-220JE | 1 | 435032204R1 |  |
| R4135 | C-CARBON R  | RN72K1J-220JE | 1 | 435032204R1 |  |
| R4136 | C-CARBON R  | RN72K1J-220JE | 1 | 435032204R1 |  |
| R4151 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4152 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4153 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4154 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4155 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4156 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4157 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4158 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4159 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4160 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4161 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4162 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4163 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4164 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4165 | C-CARBON R  | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4166 | C-CARBON R  | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4167 | C-CARBON R  | RN72K1J-104JE | 1 | 435031044R1 |  |
| R4168 | C-CARBON R  | RN72K1J-104JE | 1 | 435031044R1 |  |
| R4169 | C-CARBON R  | RN72K1J-473JE | 1 | 435034734R1 |  |
| R4170 | C-CARBON R  | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4171 | C-CARBON R  | RN72K1J-104JE | 1 | 435031044R1 |  |
| R4175 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4176 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4177 | C-CARBON R  | RN72K1J-102JE | 1 | 435031024R1 |  |
| R4178 | C-CARBON R  | RN72K1J-102JE | 1 | 435031024R1 |  |

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|-------|------------|---------------|---|-------------|--|
| R4179 | C-CARBON R | RN72K1J-122JE | 1 | 435031224R1 |  |
| R4180 | C-CARBON R | RN72K1J-122JE | 1 | 435031224R1 |  |
| R4217 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4218 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4219 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4220 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4221 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4222 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4223 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4224 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4225 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4226 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4227 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4228 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4229 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4230 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4231 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4232 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4233 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4234 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4235 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4236 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4237 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4238 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4239 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4240 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4241 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4242 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4243 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4244 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4245 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4246 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4247 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4248 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4249 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4250 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4251 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4252 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4257 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4258 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4301 | METAL O R  | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4302 | METAL O R  | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4303 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R4304 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R4305 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1 |  |
| R4306 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1 |  |
| R4307 | C-CARBON R | RN72K1J-123JE | 1 | 435031234R1 |  |
| R4308 | C-CARBON R | RN72K1J-123JE | 1 | 435031234R1 |  |
| R4309 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R4310 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |

|       |            |               |   |             |
|-------|------------|---------------|---|-------------|
| R4311 | C-CARBON R | RN72K1J-123JE | 1 | 435031234R1 |
| R4312 | C-CARBON R | RN72K1J-123JE | 1 | 435031234R1 |
| R4313 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4314 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4315 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4316 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4319 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4320 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4321 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4322 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4323 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4324 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4327 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4328 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4329 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4330 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4331 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4332 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4335 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4336 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4337 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4338 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4339 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4340 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4341 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4342 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4343 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4344 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4345 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R4347 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4348 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4401 | METAL O R  | RS1/2WBJ-22   | 1 | 442522204F  |
| R4402 | METAL O R  | RS1/2WBJ-22   | 1 | 442522204F  |
| R4403 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4404 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4405 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |
| R4406 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |
| R4407 | METAL O R  | RS1/2WBJ-1.2K | 1 | 443521224T  |
| R4408 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |
| R4409 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4410 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |
| R4411 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |
| R4412 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4413 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4414 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4415 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R4416 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R4417 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |
| R4418 | C-CARBON R | RN72K1J-183JE | 1 | 435031834R1 |
| R4419 | METAL O R  | RS1/2WBJ-22   | 1 | 443522204T  |

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|-------|------------|---------------|---|-------------|--|
| R4420 | METAL O R  | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4421 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4422 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4501 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4502 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4503 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R4504 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R4505 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R4506 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R4507 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4508 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4509 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4510 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4511 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4512 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |  |
| R4513 | METAL O R  | RS1/2WBJ-47   | 1 | 443524704T  |  |
| R4514 | METAL O R  | RS1/2WBJ-47   | 1 | 443524704T  |  |
| R4515 | METAL O R  | RS1/2WBJ-47   | 1 | 443524704T  |  |
| R4516 | METAL O R  | RS1/2WBJ-47   | 1 | 443524704T  |  |
| R4517 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4518 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R4519 | C-CARBON R | RN72K1J-390JE | 1 | 435033904R1 |  |
| R4600 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4601 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4602 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4603 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4604 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4605 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4606 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4607 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R4610 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4611 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4612 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4613 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4614 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4615 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4616 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4617 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R4620 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4621 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4622 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4623 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4624 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4625 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4626 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4627 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4632 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4633 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4634 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4635 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R4636 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4637 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4640 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4641 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4642 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4643 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R4644 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4645 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4646 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4647 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4650 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4651 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4652 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4653 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4654 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4655 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4656 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4657 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R4660 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4661 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4662 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4663 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4664 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4665 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4666 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4667 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R4670 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4671 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4672 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4673 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4674 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4675 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4676 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4677 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R4680 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4681 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4682 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4683 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4684 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4685 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4686 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4687 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4690 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4691 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4692 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4693 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4694 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4695 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4696 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R4697 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |

|          |            |                   |     |           |   |
|----------|------------|-------------------|-----|-----------|---|
| RL4401   | RELAY      | NRL-2P2A-DC12-178 | 1   | 25065664  |   |
| RL4402   | RELAY      | NRL-2P2A-DC12-178 | 1   | 25065664  |   |
| RL4403   | RELAY      | NRL-2P2A-DC12-178 | 1   | 25065664  |   |
| RL4404   | RELAY      | NRL-2P2A-DC12-178 | 1   | 25065664  |   |
| RL4501   | RELAY      | NRL-2P5A-DC12-187 | 1   | 25065685  |   |
| F2501A   | FUSE HOL   | NSCT-1P2031       | 1   | 25052133T | ! |
| F2501B   | FUSE HOL   | NSCT-1P2031       | 1   | 25052133T | ! |
| F2502A   | FUSE HOL   | NSCT-1P2031       | 1   | 25052133T | ! |
| F2502B   | FUSE HOL   | NSCT-1P2031       | 1   | 25052133T | ! |
| J4001    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4002    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4003    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4004    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4005    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4006    | JMP WIRE   | TA075             | 1   | 78003     |   |
| J4007    | JMP WIRE   | TA075             | 1   | 78003     |   |
| JL2601B  | WIRE TRAP  | NPLG-3P586        | 1   | 25055624  |   |
| JL4013B  | SOCKET     | NSCT-5P97         | 1   | 25050269  |   |
| JL4014B  | SOCKET     | NSCT-6P98         | 1   | 25050270  |   |
| JL4015A  | WIRE HOL   | NSCT-4P895        | 1   | 25051108  |   |
| JL8002A  | WIRE HOL   | NSCT-5P876        | 1   | 25051089  |   |
| JL901B   | WIRE TRAP  | NPLG-7P590        | 1   | 25055628  |   |
| P2001    | PIN JACK   | NPJ-10PDSY628     | 1   | 25045849  |   |
| P2001 or | PIN JACK   | NPJ-10PDBY481     | (1) | 25045684  |   |
| P2002    | PIN JACK   | NPJ-10PDSY628     | 1   | 25045849  |   |
| P2002 or | PIN JACK   | NPJ-10PDBY481     | (1) | 25045684  |   |
| P2003    | PIN JACK   | NPJ-10PDSY628     | 1   | 25045849  |   |
| P2003 or | PIN JACK   | NPJ-10PDBY481     | (1) | 25045684  |   |
| P2004    | PIN JACK   | NPJ-5PDSY629      | 1   | 25045850  |   |
| P2004 or | PIN JACK   | NPJ-5PDBY482      | (1) | 25045685  |   |
| P2005    | PIN JACK   | NPJ-1PDY655       | 1   | 25045882  |   |
| P2010A   | PLUG       | IMSA-9142B-24A    | 1   | 25056602  |   |
| P2201    | PIN JACK   | NPJ-6PDGLR649     | 1   | 25045874  |   |
| P2202    | PIN JACK   | NPJ-9PDGLR630     | 1   | 25045851  |   |
| P2202 or | PIN JACK   | NPJ-9PDGLR520     | (1) | 25045732  |   |
| P2502    | PLUG       | NPLG-3P117        | 1   | 25055133  |   |
| P2602    | ST JACK    | HSJ1002-01-6020   | 1   | 25045647  |   |
| P2603    | ST JACK    | HSJ1002-01-6020   | 1   | 25045647  |   |
| P2604    | ST JACK    | HSJ1002-01-6020   | 1   | 25045647  |   |
| P2605    | TRM(SCREW) | NEJITANSI M3      | 1   | 25065425  |   |
| P2801A   | SOCKET     | NSCT-31P2124      | 1   | 25052227  |   |
| P2991    | RETAINER   | (JOINT)           | 1   | 27142069  |   |
| P4001    | PIN JACK   | NPJ-2PDWR583      | 1   | 25045803  |   |
| P4001 or | PIN JACK   | NPJ-2PDBL249      | (1) | 25045424  |   |
| P4003    | PIN JACK   | NPJ-6PDRW665      | 1   | 25045894  |   |
| P4003 or | PIN JACK   | NPJ-6PDBL380      | (1) | 25045565  |   |
| P4004    | PIN JACK   | NPJ-6PDRW665      | 1   | 25045894  |   |
| P4004 or | PIN JACK   | NPJ-6PDBL380      | (1) | 25045565  |   |
| P4005    | PIN JACK   | NPJ-6PDRW665      | 1   | 25045894  |   |
| P4005 or | PIN JACK   | NPJ-6PDBL380      | (1) | 25045565  |   |



|          |            |                    |      |               |  |
|----------|------------|--------------------|------|---------------|--|
| P4006    | PIN JACK   | NPJ-4PDGPRW659     | 1    | 25045888      |  |
| P4006 or | PIN JACK   | NPJ-4PDGPRW503     | ( 1) | 25045708      |  |
| P4007    | PIN JACK   | NPJ-4PDELNT660     | 1    | 25045889      |  |
| P4007 or | PIN JACK   | NPJ-4PDELNT505     | ( 1) | 25045710      |  |
| P4008    | PIN JACK   | NPJ-6PDPWR654      | 1    | 25045881      |  |
| P4009    | PIN JACK   | NPJ-4PDGPRW659     | 1    | 25045888      |  |
| P4009 or | PIN JACK   | NPJ-4PDGPRW503     | ( 1) | 25045708      |  |
| P4010    | PIN JACK   | NPJ-4PDELNT660     | 1    | 25045889      |  |
| P4010 or | PIN JACK   | NPJ-4PDELNT505     | ( 1) | 25045710      |  |
| P4020A   | PLUG       | IMSA-9142B-26A     | 1    | 25056603      |  |
| P4021A   | PLUG       | IMSA-9142B-26A     | 1    | 25056603      |  |
| P4030A   | PLUG       | NPLG-9P661         | 1    | 25055705      |  |
| P4030B   | SOCKET     | NSCT-9P1024        | 1    | 25051234      |  |
| P4032A   | PLUG       | NPLG-8P660         | 1    | 25055704      |  |
| P4033A   | PLUG       | NPLG-13P665        | 1    | 25055709      |  |
| P4100    | SOCKET     | 9210B-1-08Z140-PT1 | 1    | 25053243      |  |
| P4101    | SOCKET     | 9210B-1-08Z140-PT1 | 1    | 25053243      |  |
| P4201    | TRM(SCREW) | NEJITANSI M3       | 1    | 25065425      |  |
| P4202    | TRM        | NTM-1P233(M1969)   | 1    | 25060302      |  |
| P5000    | PLUG       | NPLG-13P360        | 1    | 25055377      |  |
| P5001B   | CRIMP AS   | CRIMP SR805_2      | 1    | 20799170UL    |  |
| P5112    | SOCKET AS  | NSAS-4P1696        | 1    | 200B3190420UL |  |

|            |                                                 |
|------------|-------------------------------------------------|
| <b>U06</b> | <b>POWER SUPPLY PC BOARD (NAASP-9057-2A/2D)</b> |
| <b>U07</b> | <b>INLET PC BOARD (NAASP-9058-2A/2D)</b>        |

| REF. NO. | PART NAME | DESCRIPTION         | Q'TY | PART NO. (SN) | REMARKS |
|----------|-----------|---------------------|------|---------------|---------|
| Q9101    | TR        | 2SC1815-GR          | 1    | 2211255T      |         |
| Q9200    | TR        | 2SC1815-GR          | 1    | 2211255T      |         |
| D9000    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9001    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9002    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9003    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9004    | DIODE     | RL1N4003            | 1    | 22380260T     |         |
| D9004 or | DIODE     | GP104003E           | ( 1) | 22380035T     |         |
| D9005    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9006    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9007    | ZENER D   | MTZJ5.1B            | 1    | 224470512T    |         |
| D9008    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9009    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9101    | DIODE     | 1SS133              | 1    | 223163T       |         |
| D9200    | DIODE     | 1SS133              | 1    | 223163T       |         |
| T9000    | P TRANS   | NPT-1520JQ          | 1    | 2301812A      | !       |
| C9000    | TF C      | ECQ-B50V-223J       | 1    | 374722234T    |         |
| C9001    | VR C      | CE04W25V-2200M(VR)  | 1    | 394652227S    |         |
| C9002    | UTSP C    | CE04W50V-4.7M(UTSP) | 1    | 397580477T    |         |
| C9008    | UTSP C    | CE04W25V-100M(UTSP) | 1    | 397551017T    |         |
| C9116    | TF C      | ECQ-B50V-103J       | 1    | 374721034T    |         |
| C9119    | TF C      | ECQ-B50V-223J       | 1    | 374722234T    |         |
| C9201    | TF C      | ECQ-B50V-103J       | 1    | 374721034T    |         |

|        |            |                  |   |              |   |
|--------|------------|------------------|---|--------------|---|
| R9005  | CARBON R   | R16J-27          | 1 | 417342704T   |   |
| R9107  | CARBON R   | R16J-1K          | 1 | 417341024T   |   |
| R9108  | CARBON R   | R16J-100K        | 1 | 417341044T   |   |
| R9109  | CARBON R   | R16J-180         | 1 | 417341814T   |   |
| R9200  | CARBON R   | R16J-1K          | 1 | 417341024T   |   |
| R9201  | CARBON R   | R16J-100K        | 1 | 417341044T   |   |
| R9202  | CARBON R   | R16J-100         | 1 | 417341014T   |   |
| RL9101 | RELAY      | NRL-1P5A-DC9-179 | 1 | 25065669     | ! |
| RL9200 | RELAY      | NRL-1P5A-DC9-179 | 1 | 25065669     | ! |
| E9100  | TRM(SCREW) | NEJITANSI M3     | 1 | 25065425     |   |
| F9000A | FUSE HOL   | NSCT-1P2031      | 1 | 25052133T    | ! |
| F9000B | FUSE HOL   | NSCT-1P2031      | 1 | 25052133T    | ! |
| JL901A | WIRE HOL   | NSCT-7P878       | 1 | 25051091     |   |
| P9000  | AC INLET   | NPLG-2P913       | 1 | 25055960     | ! |
| P9001  | AC OUTLET  | AC-181-UL-11V    | 1 | 25053030     | ! |
| P9006C | CRIMP AS   | CRIMP AS         | 1 | 206CC45159UL |   |
| P9007C | CRIMP AS   | CRIMP AS         | 1 | 206CC45150UL |   |
| P9100  | PLUG       | NPLG-2P632       | 1 | 25055676     | ! |
| P9200  | PLUG       | NPLG-2P632       | 1 | 25055676     | ! |
| P9300  | PLUG       | NPLG-2P632       | 1 | 25055676     | ! |

**U08** DSP PC BOARD (NADSP-9072-1A)

| REF. NO. | PART NAME    | DESCRIPTION             | Q'TY | PART NO. (SN)   | REMARKS |
|----------|--------------|-------------------------|------|-----------------|---------|
| Q3301    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3311    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3325    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3331    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3351    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3371    | IC           | TC74VHC157FT            | 1    | 22274157ER2TO   |         |
| Q3391    | IC           | TC74VHCT08AFT (EKJ)     | 1    | 22274008G1R2TO  |         |
| Q3391 or | IC           | TC74VHCT08AFT           | (1)  | 22274008GR2TO   |         |
| Q3401    | IC           | D790E001BZDH275         | 1    | ---             | NRP     |
| Q3401 or | IC           | D710E001BZDH275         | 1    | ---             | NRP     |
| Q3451    | IC(DSP1 ROM) | ES29LV160ET-70TG(0212)  | 1    | 222W0069R302126 |         |
| Q3451 or | IC(DSP1 ROM) | S29AL016D70TFI010(0212) | (1)  | 222W0063R302126 |         |
| Q3461    | IC           | RMS116T(LF)             | 1    | 22242340R3      |         |
| Q3461 or | IC           | M12L16161A-7TG          | (1)  | 22242278R3      |         |
| Q3461 or | IC           | IC42S16100              | (1)  | 22242123R2      |         |
| Q3461 or | IC           | IC42S16100              | (1)  | 22242123R3      |         |
| Q3471    | IC           | RMS116T(LF)             | 1    | 22242340R3      |         |
| Q3471 or | IC           | M12L16161A-7TG          | (1)  | 22242278R3      |         |
| Q3471 or | IC           | IC42S16100              | (1)  | 22242123R2      |         |
| Q3471 or | IC           | IC42S16100              | (1)  | 22242123R3      |         |
| Q3481    | IC           | TC7WU04FU(TE12L_F)      | 1    | 22240935R2      |         |
| Q3491    | IC           | TC74VHC541FT            | 1    | 22274541ER2TO   |         |
| Q3491 or | IC           | TC74VHC541FT(EKJ)       | (1)  | 22274541E1R2TO  |         |
| Q3501    | IC           | D788E001BRFP266         | 1    | ---             | NRP     |
| Q3501 or | IC           | D708E001BRFP266         | (1)  | ---             | NRP     |
| Q3551    | IC(DSP2 ROM) | ES29LV400ET-70TG(0213)  | 1    | 222W0065R302137 |         |

|          |              |                         |     |                 |
|----------|--------------|-------------------------|-----|-----------------|
| Q3551 or | IC(DSP2 ROM) | S29AL004D70TFI010(0213) | (1) | 222W0061R302137 |
| Q3561    | IC           | RMS116T(LF)             | 1   | 22242340R3      |
| Q3561 or | IC           | M12L16161A-7TG          | (1) | 22242278R3      |
| Q3561 or | IC           | IC42S16100              | (1) | 22242123R2      |
| Q3561 or | IC           | IC42S16100              | (1) | 22242123R3      |
| Q3571    | IC           | TC7WU04FU(TE12L_F)      | 1   | 22240935R2      |
| Q3601    | IC           | D707E001BRFP250         | 1   | 22242401R3      |
| Q3651    | IC(DSP3 ROM) | ES29LV800ET-70TG(0214)  | 1   | 222W0068R302148 |
| Q3651 or | IC(DSP3 ROM) | S29AL008D70TFI010(0214) | (1) | 222W0062R302148 |
| Q3661    | IC           | IS42S16400D-7TL         | 1   | 22241910R3      |
| Q3661 or | IC           | M12L64164A-7TG          | (1) | 22242441R3      |
| Q3661 or | IC           | K4S641632K-UC60         | (1) | 22242462R2      |
| Q7202    | IC           | BD7820                  | 1   | 22242300R2      |
| Q7222    | IC           | BD7820                  | 1   | 22242300R2      |
| Q7223    | IC           | BD7820                  | 1   | 22242300R2      |
| D7205    | C-DIODE      | 1SS352                  | 1   | 223234R2        |
| D7205 or | C-DIODE      | 1SS355                  | (1) | 223269R2        |
| D7225    | C-DIODE      | 1SS352                  | 1   | 223234R2        |
| D7225 or | C-DIODE      | 1SS355                  | (1) | 223269R2        |
| D7226    | C-DIODE      | 1SS352                  | 1   | 223234R2        |
| D7226 or | C-DIODE      | 1SS355                  | (1) | 223269R2        |
| L3301    | CHOKE COIL   | LBC2518T470M            | 1   | 231364M470R2    |
| L3311    | EMIFIL       | BK1608HS102-T           | 1   | 230955R2        |
| L3312    | EMIFIL       | BK1608LM182-T           | 1   | 230958R1        |
| L3371    | EMIFIL       | BK1608LM182-T           | 1   | 230958R1        |
| L3372    | EMIFIL       | BK1608HS102-T           | 1   | 230955R2        |
| L3401    | EMIFIL       | ACF451832-333-T         | 1   | 230978R2        |
| L3402    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| L3403    | CHOKE COIL   | LBC2518T4R7M            | 1   | 231364M047R2    |
| L3451    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| L3481    | EMIFIL       | BK1608LM182-T           | 1   | 230958R1        |
| L3482    | EMIFIL       | BK1608LM182-T           | 1   | 230958R1        |
| L3483    | CHOKE COIL   | LBC2518T470M            | 1   | 231364M470R2    |
| L3491    | CHOKE COIL   | LBC2518T470M            | 1   | 231364M470R2    |
| L3501    | EMIFIL       | ACF451832-333-T         | 1   | 230978R2        |
| L3541    | CHOKE COIL   | LBC2518T4R7M            | 1   | 231364M047R2    |
| L3542    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| L3551    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| L3571    | CHOKE COIL   | LBC2518T470M            | 1   | 231364M470R2    |
| L3572    | EMIFIL       | BK1608LM182-T           | 1   | 230958R1        |
| L3601    | EMIFIL       | ACF451832-333-T         | 1   | 230978R2        |
| L3602    | EMIFIL       | BK1608LL241-T           | 1   | 230959R1        |
| L3603    | EMIFIL       | BK1608HS102-T           | 1   | 230955R2        |
| L3641    | CHOKE COIL   | LBC2518T4R7M            | 1   | 231364M047R2    |
| L3642    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| L3651    | CHOKE COIL   | BLM21PG221SN1           | 1   | 230949R2        |
| X3481    | CRYSTAL      | HC-49USSMD25.00MHz      | 1   | 3010444R2       |
| X3571    | CRYSTAL      | HC-49USSMD17.734MHz     | 1   | 3010442R2       |
| C3301    | C-CERA C     | CK725F1E-104Z1          | 1   | 332161040R1     |
| C3302    | CHIP ELECT C | CEWX4V-100M             | 1   | 3981G1017R2     |

|       |              |                 |   |             |  |
|-------|--------------|-----------------|---|-------------|--|
| C3311 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3315 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3325 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3331 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3351 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3371 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3391 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3401 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3402 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C3403 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3405 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3411 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3412 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3413 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3414 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3415 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3416 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3417 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3418 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3419 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3420 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3421 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3425 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3426 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3427 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3428 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3429 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3430 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3431 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3432 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3433 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3434 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3435 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3451 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3452 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3453 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3461 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3462 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3463 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3464 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3465 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3466 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3467 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3471 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3472 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3473 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3474 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3475 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3476 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3477 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |

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|-------|--------------|-----------------|---|-------------|--|
| C3481 | C-CERA C     | CC725CH1H-090D1 | 1 | 342100902R1 |  |
| C3482 | C-CERA C     | CC725CH1H-090D1 | 1 | 342100902R1 |  |
| C3483 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3484 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C3491 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3501 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3502 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3503 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3504 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3505 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3506 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3507 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3508 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3509 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3510 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3511 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3512 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3513 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3514 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3515 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3516 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3517 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3518 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3519 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3520 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3521 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3522 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3523 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3524 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3525 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3526 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3527 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3528 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3529 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3541 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3542 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3551 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3552 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3553 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3561 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3562 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3563 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3564 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3565 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3566 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3567 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3571 | C-CERA C     | CC725CH1H-120J1 | 1 | 342101204R1 |  |
| C3572 | C-CERA C     | CC725CH1H-120J1 | 1 | 342101204R1 |  |
| C3573 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3574 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |

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|-------|--------------|-----------------|---|-------------|--|
| C3601 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3602 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3603 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3604 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3605 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3606 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3607 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3608 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3609 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3610 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3611 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3612 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3613 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3614 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3615 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3616 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3617 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3618 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3619 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3620 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3621 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3622 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3623 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3624 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3625 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3626 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3627 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3628 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3629 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3641 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3642 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3651 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3652 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |  |
| C3653 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C3661 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3662 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3663 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3664 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3665 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3666 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3667 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C3668 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C7204 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C7205 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C7206 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |
| C7224 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C7225 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |
| C7226 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C7227 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C7228 | C-CERA C     | CK725F1E-104Z1  | 1 | 332161040R1 |  |



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|-------|--------------|---------------|---|-------------|--|
| C7229 | CHIP ELECT C | CEWX4V-100M   | 1 | 3981G1017R2 |  |
| R3301 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3302 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3303 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3304 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3305 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3306 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3307 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3311 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3312 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3313 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3314 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3315 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3316 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3317 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3318 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3319 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3320 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3321 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3322 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3323 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3325 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3326 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3327 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3328 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3330 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3331 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3332 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3333 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3334 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3335 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3336 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3337 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3338 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3339 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3340 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3341 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3342 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3345 | C-CARBON R   | RN72K1J-101JE | 1 | 435031014R1 |  |
| R3351 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3352 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3353 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3354 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3355 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3356 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3357 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3358 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3359 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3360 | C-CARBON R   | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3361 | C-CARBON R   | RN72K1J-331JE | 1 | 435033314R1 |  |

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|-------|------------|---------------|---|-------------|--|
| R3362 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3371 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3373 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3374 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3376 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3377 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3379 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3380 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3381 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3382 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3391 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3401 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3402 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3403 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3404 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R3405 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3406 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3407 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3408 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3409 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3410 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3411 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3412 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3413 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3414 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3415 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3416 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3417 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3418 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3419 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3420 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3421 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3422 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3423 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3424 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3425 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3426 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3427 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3428 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3429 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3430 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3431 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3451 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3452 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3453 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3454 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3455 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3456 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3457 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3482 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R3483 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1 |  |
| R3491 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R3492 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R3493 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R3494 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R3495 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R3496 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3501 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3502 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3503 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3504 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3505 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3506 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R3507 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3508 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3509 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3510 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3511 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3512 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3513 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3514 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3515 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3516 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3517 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3518 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3519 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3520 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3521 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3522 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3523 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3524 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3525 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3526 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3527 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3528 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3529 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3530 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3551 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3552 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3553 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3554 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3557 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3558 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3571 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1 |  |
| R3572 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R3601 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3602 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3603 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3604 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3605 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |

|        |            |                  |   |             |  |
|--------|------------|------------------|---|-------------|--|
| R3606  | C-CARBON R | RN72K1J-222JE    | 1 | 435032224R1 |  |
| R3607  | C-CARBON R | RN72K1J-102JE    | 1 | 435031024R1 |  |
| R3608  | C-CARBON R | RN72K1J-102JE    | 1 | 435031024R1 |  |
| R3609  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3610  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3611  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3612  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3613  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3614  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3615  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3616  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3617  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3618  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3619  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3620  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3621  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3622  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3623  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3624  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3625  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3626  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3627  | C-CARBON R | RN72K1J-331JE    | 1 | 435033314R1 |  |
| R3628  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3629  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3630  | C-CARBON R | RN72K1J-470JE    | 1 | 435034704R1 |  |
| R3651  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3652  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3653  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3656  | C-CARBON R | RN72K1J-102JE    | 1 | 435031024R1 |  |
| R3657  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3658  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R3659  | C-CARBON R | RN72K1J-103JE    | 1 | 435031034R1 |  |
| R7206  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7207  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7208  | C-CARBON R | RN72K1J-393JE    | 1 | 435033934R1 |  |
| R7226  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7227  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7228  | C-CARBON R | RN72K1J-393JE    | 1 | 435033934R1 |  |
| R7229  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7230  | C-CARBON R | RN72K1J-273JE    | 1 | 435032734R1 |  |
| R7239  | C-CARBON R | RN72K1J-393JE    | 1 | 435033934R1 |  |
| P3801B | SOCKET     | IMSA-9856S-30B-T | 1 | 25053236R2  |  |
| P3802B | SOCKET     | IMSA-9856S-30B-T | 1 | 25053236R2  |  |
| P3805A | PLUG       | NPLG-10P662      | 1 | 25055706    |  |

|            |                                                  |
|------------|--------------------------------------------------|
| <b>U09</b> | <b>DAC PC BOARD (NADG-9074-1N/1P)</b>            |
| <b>U10</b> | <b>MICROPROCESSOR PC BOARD (NAAR-9075-1N/1P)</b> |
| <b>U12</b> | <b>XM PC BOARD (NARF-9077-1N)</b>                |
| <b>U13</b> | <b>HOLDER PC BOARD (NAETC-9078-1N/1P)</b>        |
| <b>U14</b> | <b>E-CONTROL PC BOARD (NALAN-9079-1N/1P)</b>     |

|            |                                              |
|------------|----------------------------------------------|
| <b>U15</b> | <b>AMPLIFIER PC BOARD (NAASP-9080-1N/1P)</b> |
| <b>U16</b> | <b>AMPLIFIER PC BOARD (NAETC-9073-1N/1P)</b> |

| REF. NO. | PART NAME          | DESCRIPTION         | Q'TY | PART NO. (SN)   | REMARKS |
|----------|--------------------|---------------------|------|-----------------|---------|
| U3001    | PHT CP             | GP1FAV51RK0F        | 1    | 24120129        |         |
| U3002    | PHT CP             | GP1FAV51RK0F        | 1    | 24120129        |         |
| U3004    | PHT CP             | GP1FAV51TKBF        | 1    | 24120132        |         |
| Q1001    | IC(NETWORK MEMORY) | PIC18F66J60(0237)   | 1    | 222W0072R302374 |         |
| Q1002    | IC                 | IS25C02-2GLI        | 1    | 222W0075R2      |         |
| Q1002 or | IC                 | BR25L020FJ-W        | (1)  | 222W0076R2      |         |
| Q1003    | IC                 | BA33BC0FP           | 1    | 22278033DR2RH   |         |
| Q101     | IC                 | CS4344-CZZR         | 1    | 22242406R2      |         |
| Q102     | IC                 | TA48033AF(TE16L_NQ) | 1    | 22278033DR2TO   |         |
| Q102 or  | IC                 | BA33BC0FP           | (1)  | 22278033DR2RH   |         |
| Q103     | IC                 | F2628E-01           | 1    | 22242436R2      |         |
| Q103 or  | IC                 | BU9450KV-E2         | (1)  | 22242505R2      |         |
| Q104     | IC                 | TA48033AF(TE16L_NQ) | 1    | 22278033DR2TO   |         |
| Q104 or  | IC                 | BA33BC0FP           | (1)  | 22278033DR2RH   |         |
| Q105     | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q106     | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q107     | IC                 | TC74VHCT08AFT (EKJ) | 1    | 22274008G1R2TO  |         |
| Q107 or  | IC                 | TC74VHCT08AFT       | (1)  | 22274008GR2TO   |         |
| Q3001    | IC                 | TC74VHC157FT        | 1    | 22274157ER2TO   |         |
| Q3021    | IC                 | 74HCU04F            | 1    | 222740046R2     |         |
| Q3031    | IC                 | ICL3221ECVZ         | 1    | 22242268R2      |         |
| Q3041    | IC                 | CS42516-CQZ(R)-D    | 1    | 22242294R2      |         |
| Q3071    | IC                 | TC7WU04FU(TE12L_F)  | 1    | 22240935R2      |         |
| Q3081    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3082    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3701    | IC                 | PCM1796DBR          | 1    | 22242403R2      |         |
| Q3721    | IC                 | PCM1796DBR          | 1    | 22242403R2      |         |
| Q3741    | IC                 | PCM1796DBR          | 1    | 22242403R2      |         |
| Q3761    | IC                 | PCM1796DBR          | 1    | 22242403R2      |         |
| Q3781    | IC                 | PCM1796DBR          | 1    | 22242403R2      |         |
| Q3800    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3801    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3802    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3803    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3804    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3805    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3806    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3807    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3808    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3809    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3810    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3811    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3812    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3813    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3814    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |
| Q3820    | IC                 | NE5532APSR          | 1    | 22242283R2      |         |

|          |                         |                     |     |                 |  |
|----------|-------------------------|---------------------|-----|-----------------|--|
| Q3821    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3822    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3823    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3824    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3830    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3831    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3832    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3833    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3834    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3840    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3841    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3842    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3843    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q3844    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4201    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4202    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4203    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4204    | IC                      | R2S15211FP          | 1   | 22242297R3      |  |
| Q4291    | TR                      | 2SC2235-Y(TPE6_F)   | 1   | 2211654T        |  |
| Q4292    | TR                      | 2SA965-Y(TPE6_F)    | 1   | 2211644T        |  |
| Q4720    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4721    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4722    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q4723    | IC                      | NE5532APSR          | 1   | 22242283R2      |  |
| Q7001    | IC(MAIN MICROPROCESSOR) | M3087BFKGBP(0247)   | 1   | 222W0059R302470 |  |
| Q7002    | TR                      | RN1404              | 1   | 2214490R2       |  |
| Q7002 or | TR                      | KRC104S             | (1) | 2216210R2       |  |
| Q7003    | TR                      | DTA114YKA           | 1   | 2216480R2       |  |
| Q7003 or | TR                      | RN2407(TE85L_F)     | (1) | 2216360R2       |  |
| Q7003 or | TR                      | KRA107S             | (1) | 2216350R2       |  |
| Q7005    | TR                      | DTC114EKA           | 1   | 2216250R2       |  |
| Q7005 or | TR                      | RN1402              | (1) | 2214470R2       |  |
| Q7005 or | TR                      | KRC102S             | (1) | 2216190R2       |  |
| Q7006    | TR                      | DTA114YKA           | 1   | 2216480R2       |  |
| Q7006 or | TR                      | RN2407(TE85L_F)     | (1) | 2216360R2       |  |
| Q7006 or | TR                      | KRA107S             | (1) | 2216350R2       |  |
| Q7007    | TR                      | DTC114EKA           | 1   | 2216250R2       |  |
| Q7007 or | TR                      | RN1402              | (1) | 2214470R2       |  |
| Q7007 or | TR                      | KRC102S             | (1) | 2216190R2       |  |
| Q7151    | IC                      | TC74VHCT08AFT (EKJ) | 1   | 22274008G1R2TO  |  |
| Q7151 or | IC                      | TC74VHCT08AFT       | (1) | 22274008GR2TO   |  |
| Q7155    | IC                      | TC74VHCT08AFT (EKJ) | 1   | 22274008G1R2TO  |  |
| Q7155 or | IC                      | TC74VHCT08AFT       | (1) | 22274008GR2TO   |  |
| Q7161    | IC                      | TC74VHCT08AFT (EKJ) | 1   | 22274008G1R2TO  |  |
| Q7161 or | IC                      | TC74VHCT08AFT       | (1) | 22274008GR2TO   |  |
| Q7165    | IC                      | TC74VHCT08AFT (EKJ) | 1   | 22274008G1R2TO  |  |
| Q7165 or | IC                      | TC74VHCT08AFT       | (1) | 22274008GR2TO   |  |
| Q7171    | IC                      | TC74VHC238FT        | 1   | 22274238ER2TO   |  |
| Q7172    | IC                      | 74AHC138PW          | 1   | 22274138IR2PH   |  |
| Q7172 or | IC                      | TC74VHC138FT(EK2M)  | (1) | 22274138ER2TO   |  |



|          |         |                     |     |               |
|----------|---------|---------------------|-----|---------------|
| Q7181    | IC      | NJU7312AM           | 1   | 22242210R2    |
| Q7182    | TR      | 2SC2712-GR          | 1   | 2213145R2     |
| Q7183    | TR      | RN1404              | 1   | 2214490R2     |
| Q7183 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7184    | TR      | RN2402              | 1   | 2214530R2     |
| Q7184 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7201    | IC      | SI8008TM            | 1   | 22242323R2    |
| Q7221    | IC      | SI8008TM            | 1   | 22242323R2    |
| Q7231    | IC      | SI8008TM            | 1   | 22242323R2    |
| Q7232    | IC      | BD7820              | 1   | 22242300R2    |
| Q7241    | IC      | TA4805AF(TE16L_NQ)  | 1   | 22278005DR2TO |
| Q7241 or | IC      | BA50BC0FP           | (1) | 22278005DR2RH |
| Q7242    | IC      | TA48033AF(TE16L_NQ) | 1   | 22278033DR2TO |
| Q7242 or | IC      | BA33BC0FP           | (1) | 22278033DR2RH |
| Q7246    | IC      | TA48033AF(TE16L_NQ) | 1   | 22278033DR2TO |
| Q7246 or | IC      | BA33BC0FP           | (1) | 22278033DR2RH |
| Q7251    | IC      | TA4805AF(TE16L_NQ)  | 1   | 22278005DR2TO |
| Q7261    | IC      | XC6202P502FR        | 1   | 22242331R2    |
| Q7262    | IC      | XC6213B332MR        | 1   | 22242277R2    |
| Q7341    | TR      | RN1404              | 1   | 2214490R2     |
| Q7341 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7342    | TR      | RN2402              | 1   | 2214530R2     |
| Q7342 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7351    | TR      | RN1404              | 1   | 2214490R2     |
| Q7351 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7352    | TR      | RN2402              | 1   | 2214530R2     |
| Q7352 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7355    | TR      | RN1404              | 1   | 2214490R2     |
| Q7355 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7356    | TR      | RN2402              | 1   | 2214530R2     |
| Q7356 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7361    | TR      | RN1404              | 1   | 2214490R2     |
| Q7361 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7362    | TR      | RN2402              | 1   | 2214530R2     |
| Q7362 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7365    | TR      | RN1404              | 1   | 2214490R2     |
| Q7365 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7366    | TR      | RN2402              | 1   | 2214530R2     |
| Q7366 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7368    | TR      | RN1404              | 1   | 2214490R2     |
| Q7368 or | TR      | KRC104S             | (1) | 2216210R2     |
| Q7369    | TR      | RN2402              | 1   | 2214530R2     |
| Q7369 or | TR      | KRA102S             | (1) | 2216220R2     |
| Q7381    | IC      | S-812C56AUA-C3K     | 1   | 22242207R2    |
| Q7385    | IC      | S-812C33AUA-C2N     | 1   | 22242222R2    |
| Q7391    | IC      | IS25C64A-2GLI       | 1   | 22242385R2    |
| Q7401    | TR      | DTC114EKA           | 1   | 2216250R2     |
| Q7401 or | TR      | RN1402              | (1) | 2214470R2     |
| Q7401 or | TR      | KRC102S             | (1) | 2216190R2     |
| D4291    | ZENER D | UDZS7.5B            | 1   | 224550750R2   |

|          |            |                |     |              |
|----------|------------|----------------|-----|--------------|
| D4292    | ZENER D    | UDZS7.5B       | 1   | 224550750R2  |
| D7001    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7001 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7002    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7002 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7003    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7003 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7064    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7064 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7181    | ZENER D    | UDZS9.1B       | 1   | 224550910R2  |
| D7201    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7201 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7202    | C-DIODE    | CRS09(TE85L_Q) | 1   | 223274R2     |
| D7221    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7221 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7222    | C-DIODE    | CRS09(TE85L_Q) | 1   | 223274R2     |
| D7231    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7231 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7232    | C-DIODE    | CRS09(TE85L_Q) | 1   | 223274R2     |
| D7233    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7233 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7245    | DIODE      | RL1N4003       | 1   | 22380260T    |
| D7245 or | DIODE      | GP104003E      | (1) | 22380035T    |
| D7246    | DIODE      | RL1N4003       | 1   | 22380260T    |
| D7246 or | DIODE      | GP104003E      | (1) | 22380035T    |
| D7371    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7371 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7372    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7372 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7381    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7381 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7382    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7382 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7383    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7383 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| D7384    | C-DIODE    | 1SS352         | 1   | 223234R2     |
| D7384 or | C-DIODE    | 1SS355         | (1) | 223269R2     |
| L1001    | CHOKE COIL | BLM21PG221SN1  | 1   | 230949R2     |
| L1002    | CHOKE COIL | BLM21PG221SN1  | 1   | 230949R2     |
| L101     | EMIFIL     | BK1608LM182-T  | 1   | 230958R1     |
| L102     | CHOKE COIL | NCH-1471       | 1   | 231237K022R2 |
| L103     | CHOKE COIL | BLM21PG221SN1  | 1   | 230949R2     |
| L104     | CHOKE COIL | NCH-1471       | 1   | 231237K022R2 |
| L105     | CHOKE COIL | BLM21PG221SN1  | 1   | 230949R2     |
| L106     | CHOKE COIL | BLM21PG221SN1  | 1   | 230949R2     |
| L3001    | CHOKE COIL | LBC2518T470M   | 1   | 231364M470R2 |
| L3002    | CHOKE COIL | LBC2518T470M   | 1   | 231364M470R2 |
| L3011    | CHOKE COIL | LBC2518T2R2M   | 1   | 231364M022R2 |
| L3012    | CHOKE COIL | LBC2518T2R2M   | 1   | 231364M022R2 |
| L3013    | CHOKE COIL | LBC2518T2R2M   | 1   | 231364M022R2 |

|         |            |                     |      |              |  |
|---------|------------|---------------------|------|--------------|--|
| L3021   | CHOKE COIL | LBC2518T470M        | 1    | 231364M470R2 |  |
| L3031   | CHOKE COIL | LBC2518T470M        | 1    | 231364M470R2 |  |
| L3041   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3042   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3043   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3044   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3045   | EMIFIL     | BK1608LM182-T       | 1    | 230958R1     |  |
| L3046   | EMIFIL     | BK1608HS102-T       | 1    | 230955R2     |  |
| L3071   | CHOKE COIL | LBC2518T470M        | 1    | 231364M470R2 |  |
| L3072   | EMIFIL     | BK1608LM182-T       | 1    | 230958R1     |  |
| L3701   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3702   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3703   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3704   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3721   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3722   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3723   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3724   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3741   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3742   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3743   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3744   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3761   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3762   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3763   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3764   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3781   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3782   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3783   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L3784   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L7165   | CHOKE COIL | LBC2518T4R7M        | 1    | 231364M047R2 |  |
| L7201   | CHOKE COIL | NCH-2541            | 1    | 231363K470   |  |
| L7211   | CHOKE COIL | NCH-2541            | 1    | 231363K470   |  |
| L7221   | CHOKE COIL | NCH-2541            | 1    | 231363K470   |  |
| X1001   | CRYSTAL    | HC-49USSMD25.00MHz  | 1    | 3010444R2    |  |
| X101    | CRYSTAL    | DSX840GA 45.1584MHz | 1    | 3010420R2    |  |
| X101 or | CRYSTAL    | FCX-02N 45.1584MHz  | ( 1) | 3010421R2    |  |
| X3071   | CRYSTAL    | HC-49US24.576MHz    | 1    | 3010423T     |  |
| X3071A  | IB CUSHION | W15*3t TAPE         | 1    | 28141585     |  |
| X7001   | CERA LOCK  | CSTCE8M00G55-R0     | 1    | 3010416R2    |  |
| C1001   | C-CERA C   | CK725F1E-104Z1      | 1    | 332161040R1  |  |
| C1002   | C-CERA C   | CK725B1H-103K1      | 1    | 332101035R1  |  |
| C1003   | C-CERA C   | CK725B1H-103K1      | 1    | 332101035R1  |  |
| C1005   | C-CERA C   | CK725F1E-104Z1      | 1    | 332161040R1  |  |
| C1006   | C-CERA C   | CK725F1E-104Z1      | 1    | 332161040R1  |  |
| C1007   | C-CERA C   | CC725CH1H-150J1     | 1    | 342101504R1  |  |
| C1008   | VR C       | CE04W50V-10M(VR)    | 1    | 394681007T   |  |
| C1009   | C-CERA C   | CC725CH1H-150J1     | 1    | 342101504R1  |  |
| C101    | VR C       | CE04W6.3V-470M(VR)  | 1    | 394624717T   |  |
| C1010   | C-CERA C   | CK725F1E-104Z1      | 1    | 332161040R1  |  |

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|-------|--------------|---------------------|---|-------------|--|
| C1011 | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C1012 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C1015 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C1016 | CHIP ELECT C | CEWX4V-100M         | 1 | 3981G1017R2 |  |
| C102  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C104  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C105  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C106  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C107  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C108  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C109  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C110  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C111  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C112  | C-CERA C     | CC725CH1H-080D1     | 1 | 342100802R1 |  |
| C113  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C114  | C-CERA C     | CC725CH1H-040C1     | 1 | 342100401R1 |  |
| C115  | C-CERA C     | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C116  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C117  | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C118  | VR C         | CE04W6.3V-470M(VR)  | 1 | 394624717T  |  |
| C119  | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C120  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C121  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C122  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C123  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C124  | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C125  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C126  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C127  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C128  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C129  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C130  | C-CERA C     | CC725CH1H-821J1     | 1 | 342108214R1 |  |
| C131  | C-CERA C     | CC725CH1H-821J1     | 1 | 342108214R1 |  |
| C132  | C-CERA C     | CC725CH1H-821J1     | 1 | 342108214R1 |  |
| C133  | C-CERA C     | CC725CH1H-821J1     | 1 | 342108214R1 |  |
| C135  | UTSP C       | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C136  | UTSP C       | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C137  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C138  | UTSP C       | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C139  | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C140  | C-CERA C     | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3001 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3002 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3004 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3006 | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C3007 | C-CERA C     | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3008 | VR C         | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C3011 | C-CERA C     | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C3012 | C-CERA C     | CK725B1C-104K1      | 1 | 332121045R1 |  |
| C3013 | C-CERA C     | CC725CH1H-080D1     | 1 | 342100802R1 |  |

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|-------|----------|---------------------|---|-------------|--|
| C3014 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C3015 | C-CERA C | CK725B1C-104K1      | 1 | 332121045R1 |  |
| C3016 | C-CERA C | CC725CH1H-080D1     | 1 | 342100802R1 |  |
| C3017 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C3018 | C-CERA C | CK725B1C-104K1      | 1 | 332121045R1 |  |
| C3019 | C-CERA C | CC725CH1H-080D1     | 1 | 342100802R1 |  |
| C3021 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3022 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C3025 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3031 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C3032 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C3033 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C3034 | UTSP C   | CE04W50V-1M(UTSP)   | 1 | 397580107T  |  |
| C3035 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C3036 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3037 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3041 | UTSP C   | CE04W10V-470M(UTSP) | 1 | 397534717T  |  |
| C3042 | UTSP C   | CE04W10V-470M(UTSP) | 1 | 397534717T  |  |
| C3043 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3044 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3045 | TF C     | ECQ-B50V-222J       | 1 | 374722224T  |  |
| C3046 | TF C     | ECQ-B50V-222J       | 1 | 374722224T  |  |
| C3047 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3048 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3049 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C3050 | UTSP C   | CE04W10V-470M(UTSP) | 1 | 397534717T  |  |
| C3051 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3052 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3053 | C-CERA C | CK725B1H-223K1      | 1 | 332102235R1 |  |
| C3054 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3055 | C-CERA C | CC725CH1H-330J1     | 1 | 342103304R1 |  |
| C3057 | C-CERA C | CC725CH1H-330J1     | 1 | 342103304R1 |  |
| C3058 | C-CERA C | CC725CH1H-330J1     | 1 | 342103304R1 |  |
| C3059 | UTSP C   | CE04W10V-470M(UTSP) | 1 | 397534717T  |  |
| C3061 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3062 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3064 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3065 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3069 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3071 | C-CERA C | CC725CH1H-120J1     | 1 | 342101204R1 |  |
| C3072 | C-CERA C | CC725CH1H-120J1     | 1 | 342101204R1 |  |
| C3073 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C3081 | UTSP C   | CE04W25V-47M(UTSP)  | 1 | 397554707T  |  |
| C3082 | UTSP C   | CE04W25V-47M(UTSP)  | 1 | 397554707T  |  |
| C3091 | UTSP C   | CE04W25V-47M(UTSP)  | 1 | 397554707T  |  |
| C3092 | UTSP C   | CE04W25V-47M(UTSP)  | 1 | 397554707T  |  |
| C3095 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C3096 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C3701 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3702 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |

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|-------|----------|---------------------|---|-------------|--|
| C3703 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3704 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3705 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3707 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3708 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3709 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3710 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3711 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3721 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3722 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3723 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3724 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3725 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3727 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3728 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3729 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3730 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3741 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3742 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3743 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3744 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3745 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3747 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3748 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3749 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3750 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3761 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3762 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3763 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3764 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3765 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3767 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3768 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3769 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3770 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3781 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3782 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3783 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3784 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3785 | UTSJ C   | CE04W25V-47M(UTSJ)  | 1 | 398054707T  |  |
| C3787 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3788 | UTSP C   | CE04W10V-220M(UTSP) | 1 | 397532217T  |  |
| C3789 | C-FILM C | ECHU16V-104J        | 1 | 373041044R2 |  |
| C3790 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C3800 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |
| C3801 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |
| C3802 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |
| C3803 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |
| C3804 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |
| C3805 | TF C     | ECQ-B50V-272J       | 1 | 374722724T  |  |



|       |      |               |   |            |  |
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| C3806 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3807 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3808 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3809 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3810 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3811 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3812 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3813 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3814 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3815 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3816 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3817 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3818 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3819 | TF C | ECQ-B50V-272J | 1 | 374722724T |  |
| C3820 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3821 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3822 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3823 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3824 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3825 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3826 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3827 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3828 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3829 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3830 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3831 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3832 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3833 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3834 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3835 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3836 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3837 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3838 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3839 | TF C | ECQ-B50V-101K | 1 | 374721015T |  |
| C3850 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3851 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3852 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3853 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3854 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3855 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3856 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3857 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3858 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3859 | TF C | ECQ-B50V-122J | 1 | 374721224T |  |
| C3860 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |
| C3861 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |
| C3862 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |
| C3863 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |
| C3864 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |
| C3865 | TF C | ECQ-B50V-471J | 1 | 374724714T |  |

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|-------|--------|---------------------|---|------------|--|
| C3866 | TF C   | ECQ-B50V-471J       | 1 | 374724714T |  |
| C3867 | TF C   | ECQ-B50V-471J       | 1 | 374724714T |  |
| C3868 | TF C   | ECQ-B50V-471J       | 1 | 374724714T |  |
| C3869 | TF C   | ECQ-B50V-471J       | 1 | 374724714T |  |
| C3870 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3871 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3872 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3873 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3874 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3875 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3876 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3877 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3878 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3879 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C3880 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3881 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3882 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3883 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3884 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3885 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3886 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3887 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3888 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C3889 | UTSP C | CE04W25V-220M(UTSP) | 1 | 397552217T |  |
| C4201 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4202 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4203 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4204 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4205 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4206 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4207 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4208 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4209 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4210 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4211 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4212 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4213 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4214 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4227 | TF C   | ECQ-B50V-223J       | 1 | 374722234T |  |
| C4228 | TF C   | ECQ-B50V-223J       | 1 | 374722234T |  |
| C4229 | TF C   | ECQ-V50V-823J       | 1 | 374728234T |  |
| C4230 | TF C   | ECQ-V50V-823J       | 1 | 374728234T |  |
| C4231 | TF C   | ECQ-V50V-474J       | 1 | 374724744T |  |
| C4232 | TF C   | ECQ-V50V-474J       | 1 | 374724744T |  |
| C4233 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4234 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4235 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4236 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4237 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C4238 | UTSP C | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |

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| C4239 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4240 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4291 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4292 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4293 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4294 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4295 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4296 | UTSP C   | CE04W25V-220M(UTSP) | 1 | 397552217T  |  |
| C4720 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4721 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4722 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4723 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4724 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4725 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4726 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4727 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4730 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4731 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4732 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4733 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4734 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4735 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4736 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4737 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T  |  |
| C4740 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C4741 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T  |  |
| C7002 | VR C     | CE04W50V-4.7M(VR)   | 1 | 394680477T  |  |
| C7003 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7005 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7006 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7007 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7008 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7009 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7010 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7011 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7012 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7013 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7014 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7015 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7016 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7017 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7018 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7019 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7020 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7021 | C-CERA C | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7022 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C7023 | C-CERA C | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C7024 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7025 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7027 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |

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|-------|----------|---------------------|---|-------------|--|
| C7151 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7152 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7155 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7161 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7165 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7166 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7171 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7172 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7181 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7183 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7201 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7203 | VR C     | CE04W6.3V-1000M(VR) | 1 | 394621027T  |  |
| C7221 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7223 | VR C     | CE04W6.3V-1000M(VR) | 1 | 394621027T  |  |
| C7231 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7233 | VR C     | CE04W6.3V-1000M(VR) | 1 | 394621027T  |  |
| C7234 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C7235 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7241 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C7242 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7243 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7247 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C7248 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7251 | UTSP C   | CE04W50V-10M(UTSP)  | 1 | 397581007T  |  |
| C7252 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7255 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7262 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7263 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7265 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7266 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7341 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7342 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7351 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7352 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7355 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7356 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7361 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7362 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7365 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7366 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7368 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7369 | C-CERA C | CK732B1A-105K       | 1 | 337361055R2 |  |
| C7371 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7381 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7382 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7383 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7385 | VR C     | CE04W16V-470M(VR)   | 1 | 394644717T  |  |
| C7386 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7387 | VR C     | CE04W16V-100M(VR)   | 1 | 394641017T  |  |
| C7391 | C-CERA C | CK725F1E-104Z1      | 1 | 332161040R1 |  |

|       |            |                        |   |             |  |
|-------|------------|------------------------|---|-------------|--|
| C7392 | VR C       | CE04W16V-100M(VR)      | 1 | 394641017T  |  |
| R1001 | CARBON R   | MCR03EZPF49R9(49.9_1%) | 1 | 4100037R2   |  |
| R1002 | CARBON R   | MCR03EZPF49R9(49.9_1%) | 1 | 4100037R2   |  |
| R1003 | CARBON R   | MCR03EZPF49R9(49.9_1%) | 1 | 4100037R2   |  |
| R1004 | CARBON R   | MCR03EZPF49R9(49.9_1%) | 1 | 4100037R2   |  |
| R1005 | C-CARBON R | RN72K1J-222JE          | 1 | 435032224R1 |  |
| R1008 | C-CARBON R | RN72K1J-103JE          | 1 | 435031034R1 |  |
| R1009 | C-CARBON R | RN72K1J-471JE          | 1 | 435034714R1 |  |
| R101  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R1010 | C-CARBON R | RN72K1J-103JE          | 1 | 435031034R1 |  |
| R1011 | C-CARBON R | RN72K1J-100JE          | 1 | 435031004R1 |  |
| R1012 | C-CARBON R | RN72K1J-100JE          | 1 | 435031004R1 |  |
| R102  | C-CARBON R | RN72K1J-331JE          | 1 | 435033314R1 |  |
| R1026 | C-CARBON R | RN72K1J-470JE          | 1 | 435034704R1 |  |
| R1027 | C-CARBON R | RN72K1J-470JE          | 1 | 435034704R1 |  |
| R1028 | C-CARBON R | RN72K1J-470JE          | 1 | 435034704R1 |  |
| R1029 | C-CARBON R | RN72K1J-470JE          | 1 | 435034704R1 |  |
| R103  | C-CARBON R | RN72K1J-331JE          | 1 | 435033314R1 |  |
| R1030 | C-CARBON R | RN72K1J-103JE          | 1 | 435031034R1 |  |
| R104  | C-CARBON R | RN72K1J-331JE          | 1 | 435033314R1 |  |
| R105  | C-CARBON R | RN72K1J-101JE          | 1 | 435031014R1 |  |
| R106  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R107  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R108  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R109  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R110  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R111  | C-CARBON R | RN72K1J-105JE          | 1 | 435031054R1 |  |
| R112  | C-CARBON R | RN72K1J-681JE          | 1 | 435036814R1 |  |
| R113  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R114  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R115  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R116  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R117  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R118  | C-CARBON R | RN72K1J-102JE          | 1 | 435031024R1 |  |
| R119  | C-CARBON R | RN72K1J-102JE          | 1 | 435031024R1 |  |
| R120  | C-CARBON R | RN72K1J-101JE          | 1 | 435031014R1 |  |
| R121  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R122  | C-CARBON R | RN72K1J-101JE          | 1 | 435031014R1 |  |
| R123  | C-CARBON R | RN72K1J-220JE          | 1 | 435032204R1 |  |
| R124  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R125  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |
| R126  | C-CARBON R | RN72K1J-222JE          | 1 | 435032224R1 |  |
| R127  | C-CARBON R | RN72K1J-222JE          | 1 | 435032224R1 |  |
| R128  | C-CARBON R | RN72K1J-222JE          | 1 | 435032224R1 |  |
| R129  | C-CARBON R | RN72K1J-222JE          | 1 | 435032224R1 |  |
| R130  | C-CARBON R | RN72K1J-332JE          | 1 | 435033324R1 |  |
| R131  | C-CARBON R | RN72K1J-332JE          | 1 | 435033324R1 |  |
| R132  | C-CARBON R | RN72K1J-472JE          | 1 | 435034724R1 |  |
| R133  | C-CARBON R | RN72K1J-472JE          | 1 | 435034724R1 |  |
| R135  | C-CARBON R | RN72K1J-104JE          | 1 | 435031044R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R136  | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R137  | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R141  | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R142  | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R145  | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R150  | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R151  | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R152  | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R3001 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3002 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3004 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R3007 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3011 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R3012 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R3013 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R3014 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3015 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R3016 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R3017 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R3018 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3019 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R3020 | C-CARBON R | RN72K1J-100JE | 1 | 435031004R1 |  |
| R3021 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R3022 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3023 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3025 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R3031 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3032 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3033 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3034 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3035 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3036 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3037 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3041 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3042 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3043 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3045 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R3046 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3047 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R3048 | C-CARBON R | RN72K1J-392JE | 1 | 435033924R1 |  |
| R3049 | C-CARBON R | RN72K1J-392JE | 1 | 435033924R1 |  |
| R3050 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1 |  |
| R3051 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3052 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3053 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3054 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3056 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3057 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3058 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3059 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |



|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R3060 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3061 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3065 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R3069 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R3071 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1 |  |
| R3076 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R3081 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3082 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3083 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3084 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3085 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3086 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R3087 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R3091 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3092 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3093 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3094 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3095 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3096 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R3097 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1 |  |
| R3098 | C-CARBON R | RN72K1J-391JE | 1 | 435033914R1 |  |
| R3099 | C-CARBON R | RN72K1J-391JE | 1 | 435033914R1 |  |
| R3680 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3681 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3682 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3683 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3684 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3685 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3686 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3687 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3688 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3689 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3690 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3691 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3692 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3693 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3694 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3695 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3696 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3697 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3698 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3699 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R3701 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3702 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3703 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3704 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3705 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3706 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3707 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3708 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R3709 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3710 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3711 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3721 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3722 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3723 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3724 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3725 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3726 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3727 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3728 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3729 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3730 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3731 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3741 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3742 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3743 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3744 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3745 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3746 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3747 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3748 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3749 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3750 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3751 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3761 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3762 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3763 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3764 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3765 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3766 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3767 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3768 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3769 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3770 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3771 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3781 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3782 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3783 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3784 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3785 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3786 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3787 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3788 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3789 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R3790 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R3791 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R3800 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1 |  |
| R3801 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1 |  |
| R3802 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1 |  |

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| R4214 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4215 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4216 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4253 | C-CARBON R  | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4254 | C-CARBON R  | RN72K1J-182JE | 1 | 435031824R1 |  |
| R4255 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4256 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R4291 | NF CARBON R | R25J-22       | 1 | 415472204T  |  |
| R4292 | NF CARBON R | R25J-22       | 1 | 415472204T  |  |
| R4293 | C-CARBON R  | RN72K1J-152JE | 1 | 435031524R1 |  |
| R4294 | C-CARBON R  | RN72K1J-152JE | 1 | 435031524R1 |  |
| R4720 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4721 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4722 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4723 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4724 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4725 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4726 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4727 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4730 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4731 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4732 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4733 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4734 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4735 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4736 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4737 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R4740 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R4741 | METAL O R   | RS1/2WBJ-22   | 1 | 443522204T  |  |
| R7001 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7002 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7003 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7005 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7006 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7007 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7008 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7011 | C-CARBON R  | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7012 | C-CARBON R  | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7013 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7014 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7016 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7018 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7024 | C-CARBON R  | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7025 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R7026 | C-CARBON R  | RN72K1J-224JE | 1 | 435032244R1 |  |
| R7027 | C-CARBON R  | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7030 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7031 | C-CARBON R  | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7032 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7033 | C-CARBON R  | RN72K1J-221JE | 1 | 435032214R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R7034 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7035 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7036 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7037 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7038 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7040 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7042 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7043 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7044 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7045 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7046 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7048 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7049 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7050 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7051 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7053 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7054 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7055 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7062 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7063 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7064 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7065 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7069 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7070 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7071 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7072 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7073 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7075 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7077 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7078 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7079 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7080 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7081 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7082 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7083 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7084 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7085 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7086 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7087 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7088 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7089 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7090 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7092 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7094 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7095 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7096 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7097 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7098 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7099 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7100 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R7101 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7102 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7103 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7104 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7105 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7106 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7107 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7108 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7109 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7110 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7111 | C-CARBON R | RN72K1J-563JE | 1 | 435035634R1 |  |
| R7112 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R7113 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R7119 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7120 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7121 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7122 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7123 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7124 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7125 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7126 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7127 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7128 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7129 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7131 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7133 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7134 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7135 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7136 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7137 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7138 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7139 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7141 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7144 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7151 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7152 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7153 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7154 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7155 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7156 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7157 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7158 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7161 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7162 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7163 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7164 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7167 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7171 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7172 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R7173 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |

|       |            |                |   |             |  |
|-------|------------|----------------|---|-------------|--|
| R7174 | C-CARBON R | RN72K1J-470JE  | 1 | 435034704R1 |  |
| R7175 | C-CARBON R | RN72K1J-470JE  | 1 | 435034704R1 |  |
| R7176 | C-CARBON R | RN72K1J-470JE  | 1 | 435034704R1 |  |
| R7177 | C-CARBON R | RN72K1J-470JE  | 1 | 435034704R1 |  |
| R7178 | C-CARBON R | RN72K1J-470JE  | 1 | 435034704R1 |  |
| R7181 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7182 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7183 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7184 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7185 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7186 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7187 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7188 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7189 | C-CARBON R | RN72K1J-221JE  | 1 | 435032214R1 |  |
| R7190 | C-CARBON R | RN72K1J-221JE  | 1 | 435032214R1 |  |
| R7191 | C-CARBON R | RN72K1J-221JE  | 1 | 435032214R1 |  |
| R7192 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7193 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7194 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7195 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7196 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7197 | C-CARBON R | RN72K1J-104JE  | 1 | 435031044R1 |  |
| R7198 | C-CARBON R | RN72K1J-561JE  | 1 | 435035614R1 |  |
| R7201 | METAL R    | RNU1/2WCJ-2.2  | 1 | 453530224T  |  |
| R7202 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R7203 | C-CARBON R | RN72K1J-392JE  | 1 | 435033924R1 |  |
| R7204 | C-CARBON R | RN72K1J-272JE  | 1 | 435032724R1 |  |
| R7205 | C-CARBON R | RN72K1J-472JE  | 1 | 435034724R1 |  |
| R7211 | C-CARBON R | RN72K1J-333JE  | 1 | 435033334R1 |  |
| R7212 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R7213 | C-CARBON R | RN72K1J-103JE  | 1 | 435031034R1 |  |
| R7221 | METAL R    | RNU1/2WCJ-2.2  | 1 | 453530224T  |  |
| R7222 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R7223 | C-CARBON R | RN72K1J-392JE  | 1 | 435033924R1 |  |
| R7224 | C-CARBON R | RN72K1J-272JE  | 1 | 435032724R1 |  |
| R7225 | C-CARBON R | RN72K1J-472JE  | 1 | 435034724R1 |  |
| R7230 | C-CARBON R | RN72K1J-000JE  | 1 | 435030004R1 |  |
| R7231 | METAL R    | RNU1/2WCJ-0.22 | 1 | 453532294T  |  |
| R7232 | C-CARBON R | RN72K1J-102JE  | 1 | 435031024R1 |  |
| R7233 | C-CARBON R | RN72K1J-392JE  | 1 | 435033924R1 |  |
| R7234 | C-CARBON R | RN72K1J-563JE  | 1 | 435035634R1 |  |
| R7235 | C-CARBON R | RN72K1J-562JE  | 1 | 435035624R1 |  |
| R7236 | C-CARBON R | RN72K1J-273JE  | 1 | 435032734R1 |  |
| R7237 | C-CARBON R | RN72K1J-334JE  | 1 | 435033344R1 |  |
| R7238 | C-CARBON R | RN72K1J-334JE  | 1 | 435033344R1 |  |
| R7241 | METAL O R  | RS1/2WBJ-56    | 1 | 443525604T  |  |
| R7245 | METAL R    | RNU1/2WCJ-2.7  | 1 | 453530274T  |  |
| R7246 | METAL R    | RNU1/2WCJ-2.7  | 1 | 453530274T  |  |
| R7247 | METAL R    | RNU1/2WCJ-2.7  | 1 | 453530274T  |  |
| R7248 | METAL R    | RNU1/2WCJ-2.7  | 1 | 453530274T  |  |

|       |            |               |   |             |
|-------|------------|---------------|---|-------------|
| R7251 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7252 | METAL O R  | RS1/2WBJ-22   | 1 | 443522204T  |
| R7255 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7256 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7261 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7262 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7263 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7264 | C-CARBON R | RN72K1J-273JE | 1 | 435032734R1 |
| R7265 | C-CARBON R | RN72K1J-273JE | 1 | 435032734R1 |
| R7266 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7267 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |
| R7268 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7269 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7272 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7273 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7275 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7278 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7279 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7280 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7281 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7282 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7283 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7284 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |
| R7285 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |
| R7286 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |
| R7287 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7288 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7289 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7290 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7291 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7292 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7293 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |
| R7294 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |
| R7295 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |
| R7296 | C-CARBON R | RN72K1J-272JE | 1 | 435032724R1 |
| R7297 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7298 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R7299 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R7300 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7301 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7302 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7303 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7342 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R7343 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |
| R7351 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7352 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R7353 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |
| R7355 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |
| R7356 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |
| R7357 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |

|          |            |                         |      |             |
|----------|------------|-------------------------|------|-------------|
| R7361    | C-CARBON R | RN72K1J-103JE           | 1    | 435031034R1 |
| R7362    | C-CARBON R | RN72K1J-222JE           | 1    | 435032224R1 |
| R7363    | C-CARBON R | RN72K1J-102JE           | 1    | 435031024R1 |
| R7365    | C-CARBON R | RN72K1J-103JE           | 1    | 435031034R1 |
| R7366    | C-CARBON R | RN72K1J-222JE           | 1    | 435032224R1 |
| R7367    | C-CARBON R | RN72K1J-102JE           | 1    | 435031024R1 |
| R7368    | C-CARBON R | RN72K1J-222JE           | 1    | 435032224R1 |
| R7369    | C-CARBON R | RN72K1J-102JE           | 1    | 435031024R1 |
| R7371    | C-CARBON R | RN72K1J-470JE           | 1    | 435034704R1 |
| R7391    | C-CARBON R | RN72K1J-103JE           | 1    | 435031034R1 |
| R7392    | C-CARBON R | RN72K1J-103JE           | 1    | 435031034R1 |
| R7401    | C-CARBON R | RN72K1J-220JE           | 1    | 435032204R1 |
| R7402    | C-CARBON R | RN72K1J-220JE           | 1    | 435032204R1 |
| R7403    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7404    | C-CARBON R | RN72K1J-273JE           | 1    | 435032734R1 |
| R7407    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7408    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7412    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7413    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7414    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7415    | C-CARBON R | RN72K1J-222JE           | 1    | 435032224R1 |
| R7422    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7428    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| R7429    | C-CARBON R | RN72K1J-000JE           | 1    | 435030004R1 |
| E101     | TRM(SCREW) | NEJITANSI M3            | 1    | 25065425    |
| E102     | TRM(SCREW) | NEJITANSI M3            | 1    | 25065425    |
| JL9501A  | SOCKET     | NSCT-6P111              | 1    | 25050283    |
| P1001    | SOCKET     | J0026D21NL              | 1    | 25053250    |
| P1010    | PLUG       | IMSA-9201B-1-06Z388-PT1 | 1    | 25056614    |
| P1011    | TRM(SCREW) | NEJITANSI M3            | 1    | 25065425    |
| P1012    | TRM(SCREW) | NEJITANSI M3            | 1    | 25065425    |
| P101B    | SOCKET     | NSCT-13P2106            | 1    | 25052209    |
| P101Bor  | SOCKET     | NSCT-13P1607            | ( 1) | 25051820    |
| P102A    | SOCKET     | NSCT-18P2148            | 1    | 25052251    |
| P102Aor  | SOCKET     | NSCT-18P1649            | ( 1) | 25051862    |
| P102B    | SOCKET     | NSCT-18P2111            | 1    | 25052214    |
| P102Bor  | SOCKET     | NSCT-18P1612            | ( 1) | 25051825    |
| P121     | SOCKET     | YKF51-5397N             | 1    | 25053201    |
| P122     | SOCKET     | CAM-C16                 | 1    | 25053104R2  |
| P122A    | RETAINER   | (XM)                    | 1    | 27142048    |
| P2010B   | SOCKET     | IMSA-9142S-24A          | 1    | 25053234    |
| P205A    | SOCKET     | NSCT-9P2206             | 1    | 25052309    |
| P205Aor  | SOCKET     | NSCT-9P2400             | ( 1) | 25052503    |
| P205B    | SOCKET     | NSCT-9P2206             | 1    | 25052309    |
| P205Bor  | SOCKET     | NSCT-9P2400             | ( 1) | 25052503    |
| P2998    | TRM        | NTM-1P232(M1700)        | 1    | 25060301    |
| P2999    | TRM        | NTM-1P232(M1700)        | 1    | 25060301    |
| P3001    | PIN JACK   | NPJ-3PDO657             | 1    | 25045885    |
| P3001 or | PIN JACK   | NPJ-3PDO431             | ( 1) | 25045624    |
| P3002    | ST JACK    | MSJ-035-22              | 1    | 25045887    |



|          |            |                    |      |          |  |
|----------|------------|--------------------|------|----------|--|
| P3002 or | JACK       | YKB21-5130         | ( 1) | 25045387 |  |
| P3003    | SOCKET     | 7906-09FHA         | 1    | 25053103 |  |
| P3101A   | PLUG       | IMSA-9142B-24A     | 1    | 25056602 |  |
| P3102A   | PLUG       | IMSA-9142B-14A     | 1    | 25056597 |  |
| P3103A   | PLUG       | IMSA-9142B-16A     | 1    | 25056598 |  |
| P3801A   | PLUG       | IMSA-9855B-30D-T   | 1    | 25056604 |  |
| P3802A   | PLUG       | IMSA-9855B-30D-T   | 1    | 25056604 |  |
| P4020B   | SOCKET     | IMSA-9142S-26A     | 1    | 25053235 |  |
| P4021B   | SOCKET     | IMSA-9142S-26A     | 1    | 25053235 |  |
| P4032B   | SOCKET     | NSCT-8P1023        | 1    | 25051233 |  |
| P4033B   | SOCKET     | NSCT-13P1028       | 1    | 25051238 |  |
| P4110    | SOCKET     | 9210B-1-10Z140-PT1 | 1    | 25053247 |  |
| P4111    | SOCKET     | 9210B-1-09Z140-PT1 | 1    | 25053249 |  |
| P6851A   | PLUG       | IMSA-9142B-20A     | 1    | 25056600 |  |
| P6852A   | PLUG       | IMSA-9142B-20A     | 1    | 25056600 |  |
| P6853A   | PLUG       | IMSA-9142B-20A     | 1    | 25056600 |  |
| P7001    | SOCKET     | NSCT-9P2427        | 1    | 25052530 |  |
| P7002    | TRM(SCREW) | NEJITANSI M3       | 1    | 25065425 |  |
| P7501A   | SOCKET     | NSCT-40P2170       | 1    | 25052273 |  |
| P8002A   | PLUG       | NPLG-15P667        | 1    | 25055711 |  |

|            |                                                |
|------------|------------------------------------------------|
| <b>U17</b> | <b>DISPLAY PC BOARD (NADIS-9085-1M/1N)</b>     |
| <b>U18</b> | <b>DISPLAY PC BOARD (NADIS-9086-1M/1N)</b>     |
| <b>U19</b> | <b>HEADPHONE PC BOARD (NAETC-9088-1M/1N)</b>   |
| <b>U20</b> | <b>POWER SUPPLY PC BOARD (NAPS-9089-1M/1N)</b> |
| <b>U21</b> | <b>FRONT OPT PC BOARD (NAETC-9090-1M/1N)</b>   |
| <b>U22</b> | <b>VOLUME PC BOARD (NAETC-9091-1M/1N)</b>      |

| REF. NO. | PART NAME | DESCRIPTION        | Q'TY | PART NO. (SN) | REMARKS |
|----------|-----------|--------------------|------|---------------|---------|
| U7520    | PHT CP    | TORX177L           | 1    | 24120127      |         |
| U7560    | REMO SENS | NJL34H380A         | 1    | 241365        |         |
| Q7500    | FL TUBE   | HNA-16SL04T        | 1    | 212266        |         |
| Q7500A   | HOLDER    | (FL)               | 1    | 27191303      |         |
| Q7501    | IC        | M66005-0001AHP     | 1    | 22242208R3    |         |
| Q7502    | IC        | M66005-0001AHP     | 1    | 22242208R3    |         |
| Q7503    | TR        | 2SC2712-GR         | 1    | 2213145R2     |         |
| Q7503 or | TR        | 2SC2712-Y(TE85L_F) | ( 1) | 2213144R2     |         |
| Q7504    | TR        | 2SC2712-GR         | 1    | 2213145R2     |         |
| Q7504 or | TR        | 2SC2712-Y(TE85L_F) | ( 1) | 2213144R2     |         |
| Q7520    | IC        | NE5532APSR         | 1    | 22242283R2    |         |
| Q7530    | IC        | NJM4580M-D         | 1    | 22241448R2    |         |
| Q7532    | TR        | RN1441             | 1    | 2215410R2     |         |
| Q7533    | TR        | RN2403             | 1    | 2214540R2     |         |
| Q7533 or | TR        | DTA124EKA          | ( 1) | 2216240R2     |         |
| Q7533 or | TR        | KRA103S            | ( 1) | 2216230R2     |         |
| Q7591    | TR        | DTC123JKA          | 1    | 2216690R2     |         |
| Q7592    | TR        | DTC123JKA          | 1    | 2216690R2     |         |
| Q7593    | TR        | DTC123JKA          | 1    | 2216690R2     |         |
| Q7597    | TR        | DTC123JKA          | 1    | 2216690R2     |         |

|          |            |                      |     |             |  |
|----------|------------|----------------------|-----|-------------|--|
| Q7598    | TR         | DTC123JKA            | 1   | 2216690R2   |  |
| Q7611    | IC         | TC74VHC08F(EL_F)     | 1   | 22241029R2  |  |
| Q7611    | IC         | TC74VHC08F(EL_K_F)   | (1) | 22242492R2  |  |
| Q9301    | TR         | 2SC2235-Y(TPE6_F)    | 1   | 2211654T    |  |
| Q9301 or | TR         | 2SC2235-O(TPE6_F)    | (1) | 2211653T    |  |
| D7500    | ZENER D    | UDZS10B              | 1   | 224551000R2 |  |
| D7520    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7521    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7522    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7523    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7530    | ZENER D    | UDZS5.1B             | 1   | 224550510R2 |  |
| D7531    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7532    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7560    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7561    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7570    | SPCF D     | SIR-34ST3F           | 1   | 225456      |  |
| D7571    | SPCF D     | SIR-34ST3F           | 1   | 225456      |  |
| D7580    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7581    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7582    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7583    | C-DIODE    | 1SS355               | 1   | 223269R2    |  |
| D7590    | LED        | SDPB3DD0C0000-ABCDEF | 1   | 225473      |  |
| D7590a   | HOLDER     | (LED)LH-5-5          | 1   | 27191312    |  |
| D7591    | LED        | SDPB3DD0C0000-ABCDEF | 1   | 225473      |  |
| D7592    | LED        | SLR-342MGTE7P        | 1   | 225455T     |  |
| D7593    | LED        | SLR-342MGTE7P        | 1   | 225455T     |  |
| D7593 or | LED        | SEL4410G             | (1) | 225454T     |  |
| D7593 or | LED        | SEL4310G-D           | (1) | 225292DT    |  |
| D7594    | LED        | SLI-343URC-TE7       | 1   | 225449T     |  |
| D9303    | DIODE      | D10XB60H             | 1   | 22380337F   |  |
| D9306    | ZENER D    | MTZJ22B              | 1   | 224472202T  |  |
| D9307    | DIODE      | 1SS133               | 1   | 223163T     |  |
| D9308    | DIODE      | 1SS133               | 1   | 223163T     |  |
| D9310    | ZENER D    | MTZJ24B              | 1   | 224472402T  |  |
| D9311    | ZENER D    | MTZJ5.1B             | 1   | 224470512T  |  |
| D9312    | DIODE      | RL1N4003             | 1   | 22380260T   |  |
| D9312 or | DIODE      | GP104003E            | (1) | 22380035T   |  |
| D9313    | DIODE      | RL1N4003             | 1   | 22380260T   |  |
| D9313 or | DIODE      | GP104003E            | (1) | 22380035T   |  |
| D9314    | DIODE      | RL1N4003             | 1   | 22380260T   |  |
| D9314 or | DIODE      | GP104003E            | (1) | 22380035T   |  |
| D9315    | DIODE      | RL1N4003             | 1   | 22380260T   |  |
| D9315 or | DIODE      | GP104003E            | (1) | 22380035T   |  |
| L7520    | CHOKE COIL | NCH-1561 022K        | 1   | 233526K022T |  |
| L7530    | CHOKE COIL | NCH-1561 022K        | 1   | 233526K022T |  |
| L7580    | CHOKE COIL | NCH-1561 022K        | 1   | 233526K022T |  |
| L7581    | CHOKE COIL | NCH-1561 022K        | 1   | 233526K022T |  |
| L7582    | CHOKE COIL | NCH-1561 022K        | 1   | 233526K022T |  |
| C7501    | C-CERA C   | CK725B1H-223K1       | 1   | 332102235R1 |  |
| C7502    | C-CERA C   | CK725F1E-104Z1       | 1   | 332161040R1 |  |

|       |            |                     |   |             |  |
|-------|------------|---------------------|---|-------------|--|
| C7503 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7504 | C-CERA C   | CK725B1H-473K1      | 1 | 332104735R1 |  |
| C7505 | C-CERA C   | CK725B1H-473K1      | 1 | 332104735R1 |  |
| C7506 | ELECT C    | CE04W50V-33M        | 1 | 355783309T  |  |
| C7511 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7512 | C-CERA C   | CC725CH1H-180J1     | 1 | 342101804R1 |  |
| C7513 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7514 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7518 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7519 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C7520 | C-CERA C   | CK725B1H-223K1      | 1 | 332102235R1 |  |
| C7521 | UTSP C     | CE04W10V-100M(UTSP) | 1 | 397531017T  |  |
| C7522 | C-CERA C   | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C7523 | C-CERA C   | CC725CH1H-221J1     | 1 | 342102214R1 |  |
| C7524 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7530 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7531 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7533 | ELECT C    | CE04W35V-47M        | 1 | 355764709T  |  |
| C7534 | ELECT C    | CE04W35V-47M        | 1 | 355764709T  |  |
| C7535 | ELECT C    | CE04W35V-10M(S)     | 1 | 353761009T  |  |
| C7536 | C-CERA C   | CC725CH1H-101J1     | 1 | 342101014R1 |  |
| C7537 | C-CERA C   | CC725CH1H-330J1     | 1 | 342103304R1 |  |
| C7538 | ELECT C    | CE04W35V-10M(S)     | 1 | 353761009T  |  |
| C7539 | ELECT C    | CE04W35V-10M(S)     | 1 | 353761009T  |  |
| C7540 | ELECT C    | CE04W35V-10M(S)     | 1 | 353761009T  |  |
| C7543 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7560 | ELECT C    | CE04W6.3V-220M      | 1 | 355722219T  |  |
| C7561 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7562 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7580 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7581 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7582 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7583 | C-CERA C   | CK725B1H-102K1      | 1 | 332101025R1 |  |
| C7590 | C-CERA C   | CK725B1H-103K1      | 1 | 332101035R1 |  |
| C7591 | C-CERA C   | CK725B1H-103K1      | 1 | 332101035R1 |  |
| C7900 | C-CERA C   | CK725F1E-104Z1      | 1 | 332161040R1 |  |
| C9302 | VR C       | CE04W16V-10000M(VR) | 1 | 394641037S  |  |
| C9304 | VR C       | CE04W63V-470M(VR)   | 1 | 394674717S  |  |
| C9305 | VR C       | CE04W63V-47M(VR)    | 1 | 394674707T  |  |
| C9306 | TF C       | ECQ-B50V-223J       | 1 | 374722234T  |  |
| C9307 | TF C       | ECQ-V50V-334J       | 1 | 374723344T  |  |
| C9308 | UTSP C     | CE04W50V-4.7M(UTSP) | 1 | 397580477T  |  |
| R7500 | C-CARBON R | RN72K1J-221JE       | 1 | 435032214R1 |  |
| R7501 | C-CARBON R | RN72K1J-221JE       | 1 | 435032214R1 |  |
| R7502 | C-CARBON R | RN72K1J-273JE       | 1 | 435032734R1 |  |
| R7503 | C-CARBON R | RN72K1J-222JE       | 1 | 435032224R1 |  |
| R7504 | C-CARBON R | RN72K1J-222JE       | 1 | 435032224R1 |  |
| R7505 | C-CARBON R | RN72K1J-222JE       | 1 | 435032224R1 |  |
| R7506 | C-CARBON R | RN72K1J-222JE       | 1 | 435032224R1 |  |
| R7507 | C-CARBON R | RN72K1J-222JE       | 1 | 435032224R1 |  |

|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R7508 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R7509 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R7510 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R7520 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7521 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R7522 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R7523 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R7524 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R7525 | C-CARBON R | RN72K1J-750JE | 1 | 435037504R1 |  |
| R7526 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R7527 | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1 |  |
| R7528 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R7529 | C-CARBON R | RN72K1J-224JE | 1 | 435032244R1 |  |
| R7530 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R7531 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R7532 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R7533 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1 |  |
| R7534 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R7535 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7536 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R7537 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1 |  |
| R7538 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7539 | C-CARBON R | RN72K1J-221JE | 1 | 435032214R1 |  |
| R7540 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R7560 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R7561 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R7580 | METAL O R  | RS1WBJ-33     | 1 | 443623304T  |  |
| R7581 | METAL O R  | RS1WBJ-33     | 1 | 443623304T  |  |
| R7590 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7591 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7592 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7593 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7594 | C-CARBON R | RN72K1J-121JE | 1 | 435031214R1 |  |
| R7595 | C-CARBON R | RN72K1J-121JE | 1 | 435031214R1 |  |
| R7596 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R7597 | C-CARBON R | RN72K1J-181JE | 1 | 435031814R1 |  |
| R7598 | C-CARBON R | RN72K1J-151JE | 1 | 435031514R1 |  |
| R7611 | C-CARBON R | RN72K1J-271JE | 1 | 435032714R1 |  |
| R7612 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R7613 | C-CARBON R | RN72K1J-471JE | 1 | 435034714R1 |  |
| R7614 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1 |  |
| R7615 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |
| R7616 | C-CARBON R | RN72K1J-122JE | 1 | 435031224R1 |  |
| R7617 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R7618 | C-CARBON R | RN72K1J-392JE | 1 | 435033924R1 |  |
| R7621 | C-CARBON R | RN72K1J-271JE | 1 | 435032714R1 |  |
| R7622 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R7623 | C-CARBON R | RN72K1J-471JE | 1 | 435034714R1 |  |
| R7624 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1 |  |
| R7625 | C-CARBON R | RN72K1J-821JE | 1 | 435038214R1 |  |

|          |             |                          |     |             |   |
|----------|-------------|--------------------------|-----|-------------|---|
| R7626    | C-CARBON R  | RN72K1J-122JE            | 1   | 435031224R1 |   |
| R7627    | C-CARBON R  | RN72K1J-222JE            | 1   | 435032224R1 |   |
| R7628    | C-CARBON R  | RN72K1J-392JE            | 1   | 435033924R1 |   |
| R7629    | C-CARBON R  | RN72K1J-123JE            | 1   | 435031234R1 |   |
| R7631    | C-CARBON R  | RN72K1J-271JE            | 1   | 435032714R1 |   |
| R7632    | C-CARBON R  | RN72K1J-331JE            | 1   | 435033314R1 |   |
| R7633    | C-CARBON R  | RN72K1J-471JE            | 1   | 435034714R1 |   |
| R7634    | C-CARBON R  | RN72K1J-561JE            | 1   | 435035614R1 |   |
| R7635    | C-CARBON R  | RN72K1J-821JE            | 1   | 435038214R1 |   |
| R7636    | C-CARBON R  | RN72K1J-122JE            | 1   | 435031224R1 |   |
| R7637    | C-CARBON R  | RN72K1J-222JE            | 1   | 435032224R1 |   |
| R7638    | C-CARBON R  | RN72K1J-392JE            | 1   | 435033924R1 |   |
| R7639    | C-CARBON R  | RN72K1J-123JE            | 1   | 435031234R1 |   |
| R7641    | C-CARBON R  | RN72K1J-271JE            | 1   | 435032714R1 |   |
| R7642    | C-CARBON R  | RN72K1J-331JE            | 1   | 435033314R1 |   |
| R7643    | C-CARBON R  | RN72K1J-471JE            | 1   | 435034714R1 |   |
| R7644    | C-CARBON R  | RN72K1J-561JE            | 1   | 435035614R1 |   |
| R7645    | C-CARBON R  | RN72K1J-821JE            | 1   | 435038214R1 |   |
| R7646    | C-CARBON R  | RN72K1J-122JE            | 1   | 435031224R1 |   |
| R7647    | C-CARBON R  | RN72K1J-222JE            | 1   | 435032224R1 |   |
| R7648    | C-CARBON R  | RN72K1J-392JE            | 1   | 435033924R1 |   |
| R7649    | C-CARBON R  | RN72K1J-123JE            | 1   | 435031234R1 |   |
| R7802    | C-CARBON R  | RN72K1J-103JE            | 1   | 435031034R1 |   |
| R7939    | C-CARBON R  | RN72K1J-104JE            | 1   | 435031044R1 |   |
| R7954    | C-CARBON R  | RN72K1J-104JE            | 1   | 435031044R1 |   |
| R9304    | NF CARBON R | R25J-10                  | 1   | 415471004T  |   |
| R9305    | CARBON R    | R16J-5.6K                | 1   | 417345624T  |   |
| R9307    | CARBON R    | R16J-33K                 | 1   | 417343334T  |   |
| R9308    | METAL R     | RNU1/2WCJ-1              | 1   | 453530104T  |   |
| R9309    | CARBON R    | R16J-10K                 | 1   | 417341034T  |   |
| R9310    | NF CARBON R | R25J-10                  | 1   | 415471004T  |   |
| E7580    | TRM         | NTM-1P233(M1969)         | 1   | 25060302    |   |
| F9301A   | FUSE HOL    | NSCT-1P2031              | 1   | 25052133T   | ! |
| F9301B   | FUSE HOL    | NSCT-1P2031              | 1   | 25052133T   | ! |
| JL4103B  | SOCKET      | NSCT-5P97                | 1   | 25050269    |   |
| JL7560A  | WIRE HOL    | NSCT-3P874               | 1   | 25051087    |   |
| JL7560B  | WIRE HOL    | NSCT-3P874               | 1   | 25051087    |   |
| JL7590A  | WIRE HOL    | NSCT-9P880               | 1   | 25051093    |   |
| JL7590B  | WIRE HOL    | NSCT-9P880               | 1   | 25051093    |   |
| JL7591A  | WIRE HOL    | NSCT-6P877               | 1   | 25051090    |   |
| JL7591B  | WIRE HOL    | NSCT-6P877               | 1   | 25051090    |   |
| JL9303A  | WIRE HOL    | NSCT-4P875               | 1   | 25051088    |   |
| JL9303B  | WIRE TRAP   | NPLG-4P587               | 1   | 25055625    |   |
| JL9501B  | SOCKET      | NSCT-6P98                | 1   | 25050270    |   |
| P7501B   | SOCKET      | NSCT-40P2170             | 1   | 25052273    |   |
| P7522    | PIN JACK    | NPJ-7PDB603              | 1   | 25045823    |   |
| P7530    | ST JACK     | MSJ-035-05C B AG GR type | 1   | 25045880    |   |
| P7530 or | JACK        | LGT1516-0100             | (1) | 25045487    |   |
| P7580    | ST JACK     | MSJ-064-05A GR           | 1   | 25045782    |   |
| P9301A   | PLUG        | NPLG-6P120               | 1   | 25055136    |   |

|          |          |                      |     |           |  |
|----------|----------|----------------------|-----|-----------|--|
| S7590    | R ENCODE | EC12E2425WITH WASHER | 1   | 25065655W |  |
| S7611    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7611 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7612    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7612 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7613    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7613 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7614    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7614 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7615    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7615 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7616    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7616 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7618    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7618 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7619    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7619 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7621    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7621 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7622    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7622 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7623    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7623 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7624    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7624 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7625    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7625 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7626    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7626 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7627    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7627 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7628    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7628 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7630    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7630 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7631    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7631 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7632    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7632 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7633    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7633 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7634    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7634 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7635    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7635 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7636    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7636 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7637    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |
| S7637 or | PUSH SW  | NPS-111-S677         | (1) | 25035714T |  |
| S7638    | PUSH SW  | NPS-111-S681         | 1   | 25035718T |  |



|          |         |              |     |           |  |
|----------|---------|--------------|-----|-----------|--|
| S7638 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7639    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7639 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7640    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7640 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7641    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7641 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7642    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7642 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7643    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7643 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7644    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7644 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7645    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7645 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7646    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7646 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7647    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7647 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7648    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7648 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7649    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7649 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |
| S7650    | PUSH SW | NPS-111-S681 | 1   | 25035718T |  |
| S7650 or | PUSH SW | NPS-111-S677 | (1) | 25035714T |  |

#### U25 BALANCE TERMINAL PC BOARD (NATRM-9108-1D/1E)

| REF. NO. | PART NAME | DESCRIPTION    | Q'TY | PART NO. (SN) | REMARKS |
|----------|-----------|----------------|------|---------------|---------|
| Q5001    | TR        | 2SC1815-GR     | 1    | 2211255T      |         |
| Q5002    | TR        | 2SC3851-Y      | 1    | 2203384       |         |
| Q5002 or | TR        | 2SD2394-E      | (1)  | 2202705       |         |
| Q5003    | TR        | 2SA1015-GR     | 1    | 2211455T      |         |
| Q5004    | IC        | NJM2388F09     | 1    | 22242383      |         |
| Q5005    | TR        | 2SK365-GR      | 1    | 2212445T      |         |
| Q5006    | TR        | 2SK365-GR      | 1    | 2212445T      |         |
| Q5007    | TR        | 2SA1488-Y      | 1    | 2203394       |         |
| Q5007 or | TR        | 2SB1565-E      | (1)  | 2202715       |         |
| Q5007A   | HEAT SINK | RAD-165        | 1    | 27160500      |         |
| Q5007B   | SCREW     | 3TTB+8B(3CM)SR | 2    | 801637        |         |
| Q5009    | TR        | 2SC1815-GR     | 1    | 2211255T      |         |
| Q5010    | TR        | 2SA1015-GR     | 1    | 2211455T      |         |
| Q5011    | TR        | 2SC3851-Y      | 1    | 2203384       |         |
| Q5011 or | TR        | 2SD2394-E      | (1)  | 2202705       |         |
| Q5012    | TR        | 2SA1488-Y      | 1    | 2203394       |         |
| Q5012 or | TR        | 2SB1565-E      | (1)  | 2202715       |         |
| Q5012A   | HEAT SINK | RAD-165        | 1    | 27160500      |         |
| Q5012B   | SCREW     | 3TTB+8B(3CM)SR | 2    | 801637        |         |
| Q5013    | TR        | 2SK365-GR      | 1    | 2212445T      |         |
| Q5014    | TR        | 2SK365-GR      | 1    | 2212445T      |         |

|          |    |          |     |          |  |
|----------|----|----------|-----|----------|--|
| Q5100    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5100 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5101    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5101 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5102    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5102 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5103    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5103 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5104    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5104 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5105    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5105 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5106    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5106 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5107    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5107 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5110    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5110 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5111    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5111 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5112    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5112 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5113    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5113 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5114    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5114 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5115    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5115 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5116    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5116 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5117    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5117 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5120    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5120 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5121    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5121 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5122    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5122 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5123    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5123 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5124    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5124 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5125    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5125 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5126    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5126 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5127    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5127 or | TR | 2SD655-E | (1) | 2211705T |  |
| Q5130    | TR | 2SD655-F | 1   | 2211706T |  |
| Q5130 or | TR | 2SD655-E | (1) | 2211705T |  |

|          |         |                      |     |            |
|----------|---------|----------------------|-----|------------|
| Q5131    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5131 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5132    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5132 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5133    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5133 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5134    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5134 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5135    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5135 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5136    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5136 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5137    | TR      | 2SD655-F             | 1   | 2211706T   |
| Q5137 or | TR      | 2SD655-E             | (1) | 2211705T   |
| Q5141    | TR      | 2SC1815-GR           | 1   | 2211255T   |
| Q5142    | TR      | 2SC1815-GR           | 1   | 2211255T   |
| Q5160    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5161    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5162    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5163    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5164    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5165    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5166    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5167    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5600    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| Q5700    | IC      | TC74HC4052AP         | 1   | 22242425   |
| Q5800    | IC      | NE5532AP(TI)         | 1   | 22242274   |
| D5000    | DIODE   | D3SBA20              | 1   | 22380271F  |
| D5004    | ZENER D | MTZJ15B              | 1   | 224471502T |
| D5005    | ZENER D | MTZJ15B              | 1   | 224471502T |
| D5006    | DIODE   | D3SBA20              | 1   | 22380271F  |
| D5011    | DIODE   | D10XB60H             | 1   | 22380337F  |
| D5013    | DIODE   | D3SBA20              | 1   | 22380271F  |
| D5017    | ZENER D | MTZJ15B              | 1   | 224471502T |
| D5018    | ZENER D | MTZJ15B              | 1   | 224471502T |
| D5101    | DIODE   | 1SS133               | 1   | 223163T    |
| D5102    | DIODE   | 1SS133               | 1   | 223163T    |
| D5700    | ZENER D | MTZJ5.1B             | 1   | 224470512T |
| D5701    | ZENER D | MTZJ5.1B             | 1   | 224470512T |
| C5000    | TF C    | ECQ-V50V-104J        | 1   | 374721044T |
| C5001    | ELECT C | CE69W35V-8200M(ESMH) | 1   | 3500229    |
| C5002    | UTSP C  | CE04W25V-100M(UTSP)  | 1   | 397551017T |
| C5003    | UTSP C  | CE04W25V-100M(UTSP)  | 1   | 397551017T |
| C5004    | UTSP C  | CE04W25V-100M(UTSP)  | 1   | 397551017T |
| C5005    | UTSP C  | CE04W25V-100M(UTSP)  | 1   | 397551017T |
| C5006    | ELECT C | CE69W35V-8200M(ESMH) | 1   | 3500229    |
| C5011    | VR C    | CE04W16V-4700M(VR)   | 1   | 394644727S |
| C5014    | UTSP C  | CE04W25V-220M(UTSP)  | 1   | 397552217T |
| C5015    | TF C    | ECQ-V50V-104J        | 1   | 374721044T |
| C5016    | VR C    | CE04W25V-3300M(VR)   | 1   | 394653327S |

|       |         |                      |   |            |  |
|-------|---------|----------------------|---|------------|--|
| C5017 | VR C    | CE04W16V-6800M(VR)   | 1 | 394646827S |  |
| C5023 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5024 | ELECT C | CE69W35V-8200M(ESMH) | 1 | 3500229    |  |
| C5025 | ELECT C | CE69W35V-8200M(ESMH) | 1 | 3500229    |  |
| C5026 | UTSP C  | CE04W25V-100M(UTSP)  | 1 | 397551017T |  |
| C5027 | UTSP C  | CE04W25V-100M(UTSP)  | 1 | 397551017T |  |
| C5028 | UTSP C  | CE04W25V-100M(UTSP)  | 1 | 397551017T |  |
| C5029 | UTSP C  | CE04W25V-100M(UTSP)  | 1 | 397551017T |  |
| C5030 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5100 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5101 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5102 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5103 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5104 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5105 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5106 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5107 | TF C    | ECQ-B50V-101J        | 1 | 374721014T |  |
| C5120 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5121 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5122 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5123 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5124 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5125 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5126 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5127 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5170 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5171 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5172 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5173 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5174 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5175 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5176 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5177 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5190 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5191 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5192 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5193 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5194 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5195 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5196 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5197 | UTSP C  | CE04W50V 47M(UTSP)   | 1 | 397584707T |  |
| C5200 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5201 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5202 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5203 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5204 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5205 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5206 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5207 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |
| C5210 | TF C    | ECQ-V50V-104J        | 1 | 374721044T |  |

|       |        |                     |   |            |  |
|-------|--------|---------------------|---|------------|--|
| C5211 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5212 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5213 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5214 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5215 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5216 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5217 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5220 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5221 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5222 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5223 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5224 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5225 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5226 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5227 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5230 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5231 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5232 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5233 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5234 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5235 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5236 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5237 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5250 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5251 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5252 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5253 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5254 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5255 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5256 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5257 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5260 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5261 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5262 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5263 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5264 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5265 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5266 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5267 | TF C   | ECQ-B50V-101K       | 1 | 374721015T |  |
| C5270 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5271 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5272 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5273 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5274 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5275 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5276 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5277 | TF C   | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5281 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5282 | TF C   | ECQ-V50V-104J       | 1 | 374721044T |  |
| C5300 | UTSP C | CE04W25V-100M(UTSP) | 1 | 397551017T |  |

|       |          |                     |   |            |  |
|-------|----------|---------------------|---|------------|--|
| C5301 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5302 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5303 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5304 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5305 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5306 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5307 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5310 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5311 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5312 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5313 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5314 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5315 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5316 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5317 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5600 | TF C     | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5601 | TF C     | ECQ-B50V-102J       | 1 | 374721024T |  |
| C5610 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5611 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5620 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5621 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5630 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5631 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5640 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5641 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5700 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5701 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5800 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5801 | UTSP C   | CE04W50V 47M(UTSP)  | 1 | 397584707T |  |
| C5802 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| C5803 | UTSP C   | CE04W25V-100M(UTSP) | 1 | 397551017T |  |
| R5000 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5002 | CARBON R | R16J-330            | 1 | 417343314T |  |
| R5003 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5005 | CARBON R | R16J-330            | 1 | 417343314T |  |
| R5011 | METAL R  | RNU1/2WCJ-1         | 1 | 453530104T |  |
| R5012 | METAL R  | RNU1WCJ-1.5         | 1 | 453630154T |  |
| R5017 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5019 | CARBON R | R16J-330            | 1 | 417343314T |  |
| R5020 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5022 | CARBON R | R16J-330            | 1 | 417343314T |  |
| R5025 | METAL R  | RNU1WCJ-1.5         | 1 | 453630154T |  |
| R5027 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5028 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5030 | METAL R  | RNU1/2WCJ-0.22      | 1 | 453532294T |  |
| R5031 | METAL R  | RNU1/2WCJ-0.39      | 1 | 453533994T |  |
| R5032 | METAL R  | RNU1/2WCJ-0.39      | 1 | 453533994T |  |
| R5100 | CARBON R | R16J-27             | 1 | 417342704T |  |
| R5101 | CARBON R | R16J-27             | 1 | 417342704T |  |
| R5102 | CARBON R | R16J-27             | 1 | 417342704T |  |



|       |          |           |   |            |  |
|-------|----------|-----------|---|------------|--|
| R5103 | CARBON R | R16J-27   | 1 | 417342704T |  |
| R5104 | CARBON R | R16J-27   | 1 | 417342704T |  |
| R5105 | CARBON R | R16J-27   | 1 | 417342704T |  |
| R5106 | CARBON R | R16J-27   | 1 | 417342704T |  |
| R5107 | CARBON R | R16J-27   | 1 | 417342704T |  |
| R5110 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5111 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5112 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5113 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5114 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5115 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5116 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5117 | CARBON R | R16J-100K | 1 | 417341044T |  |
| R5120 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5121 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5122 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5123 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5124 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5125 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5126 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5127 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5130 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5131 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5132 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5133 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5134 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5135 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5136 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5137 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5140 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5141 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5142 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5143 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5144 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5145 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5146 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5147 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5150 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5151 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5152 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5153 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5154 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5155 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5156 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5157 | CARBON R | R16J-270  | 1 | 417342714T |  |
| R5160 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5161 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5162 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5163 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5164 | CARBON R | R16J-100  | 1 | 417341014T |  |

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|-------|----------|-----------|---|------------|--|
| R5165 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5166 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5167 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5170 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5171 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5172 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5173 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5174 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5175 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5176 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5177 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5180 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5181 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5182 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5183 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5184 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5185 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5186 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5187 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5190 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5191 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5192 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5193 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5194 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5195 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5196 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5197 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5200 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5201 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5202 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5203 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5204 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5205 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5206 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5207 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5210 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5211 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5212 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5213 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5214 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5215 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5216 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5217 | CARBON R | R16J-2.2K | 1 | 417342224T |  |
| R5230 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5231 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5232 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5233 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5234 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5235 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5236 | CARBON R | R16J-220K | 1 | 417342244T |  |

|       |          |           |   |            |  |
|-------|----------|-----------|---|------------|--|
| R5237 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5240 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5241 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5242 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5243 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5244 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5245 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5246 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5247 | CARBON R | R16J-220K | 1 | 417342244T |  |
| R5250 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5251 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5252 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5253 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5254 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5255 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5256 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5257 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5260 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5261 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5262 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5263 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5264 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5265 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5266 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5267 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5270 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5271 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5272 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5273 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5274 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5275 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5276 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5277 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5280 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5281 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5282 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5283 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5284 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5285 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5286 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5287 | CARBON R | R16J-10K  | 1 | 417341034T |  |
| R5291 | CARBON R | R16J-1K   | 1 | 417341024T |  |
| R5292 | CARBON R | R16J-1K   | 1 | 417341024T |  |
| R5300 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5301 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5302 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5303 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5304 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5305 | CARBON R | R16J-100  | 1 | 417341014T |  |
| R5306 | CARBON R | R16J-100  | 1 | 417341014T |  |

|         |          |                   |   |            |   |
|---------|----------|-------------------|---|------------|---|
| R5307   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5310   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5311   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5312   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5313   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5314   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5315   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5316   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5317   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5321   | CARBON R | R16J-100K         | 1 | 417341044T |   |
| R5600   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5601   | CARBON R | R16J-100K         | 1 | 417341044T |   |
| R5610   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5611   | CARBON R | R16J-100K         | 1 | 417341044T |   |
| R5620   | CARBON R | R16J-22K          | 1 | 417342234T |   |
| R5621   | CARBON R | R16J-22K          | 1 | 417342234T |   |
| R5630   | CARBON R | R16J-22K          | 1 | 417342234T |   |
| R5631   | CARBON R | R16J-22K          | 1 | 417342234T |   |
| R5640   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5641   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5650   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5651   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5700   | CARBON R | R16J-1.5K         | 1 | 417341524T |   |
| R5701   | CARBON R | R16J-1.5K         | 1 | 417341524T |   |
| R5704   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5705   | CARBON R | R16J-10K          | 1 | 417341034T |   |
| R5800   | CARBON R | R16J-100          | 1 | 417341014T |   |
| R5801   | CARBON R | R16J-100          | 1 | 417341014T |   |
| RL5100  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5101  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5102  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5103  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5104  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5105  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5106  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| RL5107  | RELAY    | NRL-2P2A-DC12-178 | 1 | 25065664   |   |
| F5000A  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5000B  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5001A  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5001B  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5002A  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5002B  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5003A  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| F5003B  | FUSE HOL | NSCT-1P2031       | 1 | 25052133T  | ! |
| JL2601A | WIRE HOL | NSCT-3P874        | 1 | 25051087   |   |
| JL4014A | WIRE HOL | NSCT-6P897        | 1 | 25051110   |   |
| JL4015B | SOCKET   | NSCT-4P96         | 1 | 25050268   |   |
| P3101B  | SOCKET   | IMSA-9142S-24A    | 1 | 25053234   |   |
| P3102B  | SOCKET   | IMSA-9142S-14A    | 1 | 25053229   |   |
| P3103B  | SOCKET   | IMSA-9142S-16A    | 1 | 25053230   |   |

|        |           |                |   |               |  |
|--------|-----------|----------------|---|---------------|--|
| P5000A | SOCKET AS | NSAS-26P1612   | 1 | 2009991020UL  |  |
| P5001  | PLUG      | NPLG-8P122     | 1 | 25055138      |  |
| P5003  | PLUG      | NPLG-5P119     | 1 | 25055135      |  |
| P5010  | RETAINER  | (JOINT)        | 1 | 27142069      |  |
| P5080  | RETAINER  | (BUS-98)       | 1 | 27142077      |  |
| P5081  | RETAINER  | (BUS-98)       | 1 | 27142077      |  |
| P5082  | RETAINER  | (BUS-98)       | 1 | 27142077      |  |
| P5100  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5101  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5102  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5103  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5104  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5105  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5106  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5107  | PLUG      | NPLG-3P976     | 1 | 25056026      |  |
| P5112B | PLUG      | NPLG-2P116     | 1 | 25055132      |  |
| P5120A | CRIMP AS  | CRIMP SR805_1  | 1 | 20799169UL    |  |
| P5600  | SOCKET    | NSCT-3P2649    | 1 | 25052753      |  |
| P5601  | SOCKET    | NSCT-3P2649    | 1 | 25052753      |  |
| P5A    | SOCKET AS | NSAS-8P1692    | 1 | 200B3120820UL |  |
| P6851B | SOCKET    | IMSA-9142S-20A | 1 | 25053232      |  |
| P6852B | SOCKET    | IMSA-9142S-20A | 1 | 25053232      |  |
| P6853B | SOCKET    | IMSA-9142S-20A | 1 | 25053232      |  |

#### U42 HDMI PC BOARD (NAHDM-9114-1A)

| REF. NO. | PART NAME        | DESCRIPTION             | Q'TY | PART NO. (SN)   | REMARKS |
|----------|------------------|-------------------------|------|-----------------|---------|
| U8001    | IC               | VX-50                   | 1    | 22242392R3      |         |
| U8027    | IC               | HY5DU561622ETP-4-C      | 1    | 22242450R3      |         |
| U8028    | IC               | HY5DU561622ETP-4-C      | 1    | 22242450R3      |         |
| U8029    | IC               | HY5DU561622ETP-4-C      | 1    | 22242450R3      |         |
| U8030    | IC               | HY5DU561622ETP-4-C      | 1    | 22242450R3      |         |
| U8031    | IC(VIDEO MEMORY) | S29GL128N10TFI020(0223) | 1    | 222W0071R30223A |         |
| U8067    | IC               | LP2996MX                | 1    | 22242438R2      |         |
| Q8101    | IC               | AD8196                  | 1    | ---             | NRP     |
| Q8102    | TR               | 2SK3019                 | 1    | 2216520R2       |         |
| Q8103    | TR               | 2SK3019                 | 1    | 2216520R2       |         |
| Q8104    | IC               | SN74CB3T3306DCT         | 1    | 22242454R2      |         |
| Q8105    | IC               | S-24CS02AFT-V-G         | 1    | 22242360R2      |         |
| Q8105 or | IC               | BR24L02FV-W             | (1)  | 22242069R2      |         |
| Q8108    | TR               | DTA144EE                | 1    | 2216380R2       |         |
| Q8109    | TR               | DTC144EE                | 1    | 2216390R2       |         |
| Q8124    | IC               | SN74CB3T3306DCT         | 1    | 22242454R2      |         |
| Q8125    | IC               | S-24CS02AFT-V-G         | 1    | 22242360R2      |         |
| Q8125 or | IC               | BR24L02FV-W             | (1)  | 22242069R2      |         |
| Q8128    | TR               | DTA144EE                | 1    | 2216380R2       |         |
| Q8129    | TR               | DTC144EE                | 1    | 2216390R2       |         |
| Q8151    | IC               | AD8196                  | 1    | ---             | NRP     |
| Q8152    | TR               | 2SK3019                 | 1    | 2216520R2       |         |
| Q8153    | TR               | 2SK3019                 | 1    | 2216520R2       |         |

|          |                 |                        |     |                 |     |
|----------|-----------------|------------------------|-----|-----------------|-----|
| Q8154    | IC              | SN74CB3T3306DCT        | 1   | 22242454R2      |     |
| Q8155    | IC              | S-24CS02AFT-V-G        | 1   | 22242360R2      |     |
| Q8155 or | IC              | BR24L02FV-W            | (1) | 22242069R2      |     |
| Q8158    | TR              | DTA144EE               | 1   | 2216380R2       |     |
| Q8159    | TR              | DTC144EE               | 1   | 2216390R2       |     |
| Q8174    | IC              | SN74CB3T3306DCT        | 1   | 22242454R2      |     |
| Q8175    | IC              | S-24CS02AFT-V-G        | 1   | 22242360R2      |     |
| Q8175 or | IC              | BR24L02FV-W            | (1) | 22242069R2      |     |
| Q8178    | TR              | DTA144EE               | 1   | 2216380R2       |     |
| Q8179    | TR              | DTC144EE               | 1   | 2216390R2       |     |
| Q8305    | IC              | S-812C50BUC-C5ET2G     | 1   | 22242407R2      |     |
| Q8306    | IC              | TC7SZ08FU(TE85L_F)     | 1   | 22242071R2TO    |     |
| Q8306 or | IC              | NC7SZ08P5X_F042        | (1) | 22242482R2      |     |
| Q8309    | TR ARRAY        | UM6K1N                 | 1   | 226066R2        |     |
| Q8355    | IC              | S-812C50BUC-C5ET2G     | 1   | 22242407R2      |     |
| Q8356    | IC              | TC7SZ08FU(TE85L_F)     | 1   | 22242071R2TO    |     |
| Q8359    | TR ARRAY        | UM6K1N                 | 1   | 226066R2        |     |
| Q8401    | IC              | SI9134CTU              | 1   | ---             | NRP |
| Q8404    | IC              | XC6213B182MR           | 1   | 22242443R2      |     |
| Q8405    | IC              | SN74CB3Q3305PWR        | 1   | 22242258R2      |     |
| Q8451    | IC              | SI9134CTU              | 1   | ---             | NRP |
| Q8454    | IC              | XC6213B182MR           | 1   | 22242443R2      |     |
| Q8501    | IC              | SI9135CTU              | 1   | ---             | NRP |
| Q8502    | IC              | XC6213B332MR           | 1   | 22242277R2      |     |
| Q8595    | IC              | BA18BC0FP              | 1   | 22278018DR2RH   |     |
| Q8596    | IC              | BA18BC0FP              | 1   | 22278018DR2RH   |     |
| Q8597    | IC              | BA18BC0FP              | 1   | 22278018DR2RH   |     |
| Q8645    | IC              | BA18BC0FP              | 1   | 22278018DR2RH   |     |
| Q8701    | IC(HDMI MEMORY) | MPD70F3716GC-8EA(0210) | 1   | 222W0054R302105 |     |
| Q8800    | IC              | ADV7401                | 1   | 22242254R3      |     |
| Q8803    | TR ARRAY        | UM6K1N                 | 1   | 226066R2        |     |
| Q8806    | IC              | BA18BC0FP              | 1   | 22278018DR2RH   |     |
| Q8807    | IC              | TC7WZU04FU(TE12L_F)    | 1   | 22242078R2TO    |     |
| Q8808    | IC              | TC74VCX162244FT(EL_F)  | 1   | 2227C244DR2TO   |     |
| Q8809    | IC              | TC74VCX162244FT(EL_F)  | 1   | 2227C244DR2TO   |     |
| Q8810    | IC              | TC74VCX162244FT(EL_F)  | 1   | 2227C244DR2TO   |     |
| Q8811    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8812    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8813    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8814    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8815    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8816    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8817    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8818    | IC              | TC74VCX162827          | 1   | 22242395R2      |     |
| Q8860    | IC              | MAX4018ESD             | 1   | 22241440R2      |     |
| Q8861    | IC              | MAX4018ESD             | 1   | 22241440R2      |     |
| Q8901    | IC              | ADV7320                | 1   | 22242398R3      |     |
| Q8902    | IC              | NJM2391DL1-25          | 1   | 22278025DR2JR   |     |
| Q8931    | IC              | NJU7313AM              | 1   | 22242211R2      |     |
| Q8937    | IC              | LA7106M-TLM-E          | 1   | 22241465R2      |     |



|          |            |                 |     |               |  |
|----------|------------|-----------------|-----|---------------|--|
| Q8951    | IC         | SPI-8010A       | 1   | 22242437R2    |  |
| Q8952    | IC         | SPI-8010A       | 1   | 22242437R2    |  |
| Q8953    | IC         | SPI-8010A       | 1   | 22242437R2    |  |
| Q8954    | IC         | SPI-8010A       | 1   | 22242437R2    |  |
| Q8956    | TR         | DTC144EE        | 1   | 2216390R2     |  |
| Q8957    | TR         | DTC144EE        | 1   | 2216390R2     |  |
| Q8958    | TR         | DTC144EE        | 1   | 2216390R2     |  |
| Q8959    | TR         | DTC144EE        | 1   | 2216390R2     |  |
| Q8963    | TR         | DTC144EE        | 1   | 2216390R2     |  |
| D8301    | C-DIODE    | 1SS226(TE85L_F) | 1   | 223266R2      |  |
| D8302    | C-DIODE    | 1SS352          | 1   | 223234R2      |  |
| D8302 or | C-DIODE    | 1SS355          | (1) | 223269R2      |  |
| D8303    | C-DIODE    | 1SS352          | 1   | 223234R2      |  |
| D8303 or | C-DIODE    | 1SS355          | (1) | 223269R2      |  |
| D8351    | C-DIODE    | 1SS226(TE85L_F) | 1   | 223266R2      |  |
| D8352    | C-DIODE    | 1SS352          | 1   | 223234R2      |  |
| D8352 or | C-DIODE    | 1SS355          | (1) | 223269R2      |  |
| D8353    | C-DIODE    | 1SS352          | 1   | 223234R2      |  |
| D8353 or | C-DIODE    | 1SS355          | (1) | 223269R2      |  |
| D8701    | C-DIODE    | 1SS352          | 1   | 223234R2      |  |
| D8701 or | C-DIODE    | 1SS355          | (1) | 223269R2      |  |
| D8951    | DIODE      | RSX501L-20      | 1   | 22380359R2    |  |
| D8952    | DIODE      | RSX501L-20      | 1   | 22380359R2    |  |
| D8953    | DIODE      | RSX501L-20      | 1   | 22380359R2    |  |
| D8954    | DIODE      | RSX501L-20      | 1   | 22380359R2    |  |
| L8007    | EMIFIL     | BK1608LM182-T   | 1   | 230958R1      |  |
| L8023    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8042    | C-CARBON R | RN72K1J-000JE   | 1   | 435030004R1   |  |
| L8101    | CHOKE COIL | LBC2518T4R7M    | 1   | 231364M047R2  |  |
| L8102    | CHOKE COIL | LBC2518T4R7M    | 1   | 231364M047R2  |  |
| L8151    | CHOKE COIL | LBC2518T4R7M    | 1   | 231364M047R2  |  |
| L8152    | CHOKE COIL | LBC2518T4R7M    | 1   | 231364M047R2  |  |
| L8400    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8401    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8402    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8403    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8404    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8405    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8406    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8407    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8408    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8409    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8450    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8451    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8452    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8453    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8454    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8455    | CHOKE COIL | BLM21PG221SN1   | 1   | 230949R2      |  |
| L8456    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |
| L8457    | C-R NET    | MNR12E0APJ000   | 1   | 43464900002R2 |  |

|       |            |                    |   |               |  |
|-------|------------|--------------------|---|---------------|--|
| L8458 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8459 | C-R NET    | MNR12E0APJ000      | 1 | 43464900002R2 |  |
| L8501 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8502 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8503 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8504 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8510 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8604 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8607 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8608 | EMIFIL     | BK1608LL241-T      | 1 | 230959R1      |  |
| L8701 | CHOKE COIL | LBC2518T220M       | 1 | 231364M220R2  |  |
| L8801 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8802 | CHOKE COIL | LBC2518T470M       | 1 | 231364M470R2  |  |
| L8803 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8804 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8806 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8807 | EMIFIL     | BK1608HS601-T      | 1 | 230984R1      |  |
| L8810 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| L8811 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| L8812 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| L8813 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| L8814 | C-CARBON R | RN72K1J-220JE      | 1 | 435032204R1   |  |
| L8815 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| L8851 | CHOKE COIL | MLF2012DR47J       | 1 | 231380J479R1  |  |
| L8852 | CHOKE COIL | MLF2012DR47J       | 1 | 231380J479R1  |  |
| L8853 | CHOKE COIL | MLF2012DR47J       | 1 | 231380J479R1  |  |
| L8854 | CHOKE COIL | MLF2012DR22J       | 1 | 231380J229R1  |  |
| L8855 | CHOKE COIL | MLF2012DR22J       | 1 | 231380J229R1  |  |
| L8856 | CHOKE COIL | MLF2012DR22J       | 1 | 231380J229R1  |  |
| L8901 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8902 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8903 | CHOKE COIL | LBC2518T2R2M       | 1 | 231364M022R2  |  |
| L8951 | CHOKE COIL | RCP1317NP470M      | 1 | 231375M470    |  |
| L8952 | CHOKE COIL | RCP1317NP470M      | 1 | 231375M470    |  |
| L8953 | CHOKE COIL | RCP1317NP470M      | 1 | 231375M470    |  |
| L8954 | CHOKE COIL | RCP1317NP470M      | 1 | 231375M470    |  |
| L8955 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8956 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8957 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8958 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8959 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8960 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8961 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8962 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| L8963 | CHOKE COIL | BLM21PG221SN1      | 1 | 230949R2      |  |
| X8002 | CRYSTAL    | FCX-03-27MHz       | 1 | 3010353R2     |  |
| X8501 | CRYSTAL    | FCX-03 LF28.332MHz | 1 | 3010451R2     |  |
| X8701 | CERA LOCK  | CSTCR5M00G53-B0    | 1 | 3010356R2     |  |
| X8801 | CRYSTAL    | FCX-03-28.6363MHz  | 1 | 3010408R2     |  |
| C8001 | C-CERA C   | CK725B1H-102K1     | 1 | 332101025R1   |  |

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|-------|--------------|-----------------|---|-------------|--|
| C8003 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8004 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8005 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8006 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8007 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8008 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8009 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8010 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8011 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8012 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8013 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8014 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8015 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8016 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8017 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8018 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8019 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8020 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8021 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8023 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8024 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8025 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8026 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8027 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8028 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8029 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8030 | C-CERA C     | CC725CH1H-102J1 | 1 | 342101024R1 |  |
| C8031 | C-CERA C     | CC725CH1H-102J1 | 1 | 342101024R1 |  |
| C8032 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8033 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8034 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8035 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8036 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8037 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8040 | C-CERA C     | CC725CH1H-102J1 | 1 | 342101024R1 |  |
| C8041 | C-CERA C     | CC725CH1H-102J1 | 1 | 342101024R1 |  |
| C8043 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8044 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8045 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8046 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8047 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8051 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8053 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8054 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8055 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8056 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8057 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8058 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8059 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8060 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |

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| C8061    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8062    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8063    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8064    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8065    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8066    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8067    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8068    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8069    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8070    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |  |
| C8071    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8073    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8074    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8075    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8076    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8077    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8078    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8079    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8080    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8081    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8083    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8084    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8085    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8086    | CHIP ELECT C | CEWX4V-100M     | 1   | 3981G1017R2 |  |
| C8087    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8090    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8091    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8093    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8094    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8095    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8096    | CHIP ELECT C | CEWX4V-100M     | 1   | 3981G1017R2 |  |
| C8097    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8149    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8150    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8163    | CHIP TANTAL  | F93-6.3V-100M   | 1   | 395521017R2 |  |
| C8163 or | CHIP TANTAL  | TCSCS0J107MBAR  | (1) | 396521017R2 |  |
| C8164    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8165    | CHIP TANTAL  | F93-6.3V-100M   | 1   | 395521017R2 |  |
| C8165 or | CHIP TANTAL  | TCSCS0J107MBAR  | (1) | 396521017R2 |  |
| C8166    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8167    | C-CERA C     | CC725CH1H-180J1 | 1   | 342101804R1 |  |
| C8168    | C-CERA C     | CC725CH1H-180J1 | 1   | 342101804R1 |  |
| C8169    | CHIP TANTAL  | F93-6.3V-100M   | 1   | 395521017R2 |  |
| C8169 or | CHIP TANTAL  | TCSCS0J107MBAR  | (1) | 396521017R2 |  |
| C8170    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8171    | CHIP TANTAL  | F93-6.3V-100M   | 1   | 395521017R2 |  |
| C8171 or | CHIP TANTAL  | TCSCS0J107MBAR  | (1) | 396521017R2 |  |
| C8172    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8173    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |  |
| C8173 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |  |

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| C8174    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8175    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8176    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8177    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8178    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8179    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8180    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8181    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8182    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8183    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8184    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8185    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8186    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8187    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8188    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8189    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8190    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8191    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8192    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8193    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8194    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8195    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8196    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8197    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8198    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8199    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8200    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8201    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8202    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8203    | CHIP TANTAL | TCFGA-1C106M8R | 1   | 396041007R2 |
| C8203 or | CHIP TANTAL | TCSCS1C106MAAR | (1) | 396541007R2 |
| C8204    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8205    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8206    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8207    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8208    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8209    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8210    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8211    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8212    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8213    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8214    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8215    | CHIP TANTAL | TCFGA-1C106M8R | 1   | 396041007R2 |
| C8215 or | CHIP TANTAL | TCSCS1C106MAAR | (1) | 396541007R2 |
| C8216    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8217    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8218    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8219    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8220    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |
| C8221    | C-CERA C    | CK725F1H-104Z1 | 1   | 332151040R1 |

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| C8222    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8223    | CHIP TANTAL | TCFGA-1C106M8R | 1    | 396041007R2 |  |
| C8223 or | CHIP TANTAL | TCSCS1C106MAAR | ( 1) | 396541007R2 |  |
| C8224    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8225    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8226    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8227    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8228    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8229    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8230    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8231    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8232    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8233    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8234    | CHIP TANTAL | TCFGA-1C106M8R | 1    | 396041007R2 |  |
| C8234 or | CHIP TANTAL | TCSCS1C106MAAR | ( 1) | 396541007R2 |  |
| C8235    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8236    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8237    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8238    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8239    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8240    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8241    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8242    | CHIP TANTAL | TCFGA-1C106M8R | 1    | 396041007R2 |  |
| C8242 or | CHIP TANTAL | TCSCS1C106MAAR | ( 1) | 396541007R2 |  |
| C8243    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8244    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8245    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8246    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8247    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8248    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8249    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8250    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8251    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8252    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8253    | CHIP TANTAL | TCFGA-1C106M8R | 1    | 396041007R2 |  |
| C8253 or | CHIP TANTAL | TCSCS1C106MAAR | ( 1) | 396541007R2 |  |
| C8254    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8255    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8256    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8257    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8258    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8259    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8260    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8261    | CHIP TANTAL | F93-10V-220M   | 1    | 395532217R2 |  |
| C8261 or | CHIP TANTAL | TCSCS1A227MDAR | ( 1) | 396532217R2 |  |
| C8262    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8263    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8264    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8265    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |
| C8266    | C-CERA C    | CK725F1H-104Z1 | 1    | 332151040R1 |  |



|          |              |                 |      |             |  |
|----------|--------------|-----------------|------|-------------|--|
| C8267    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8268    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8269    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8270    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8271    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8272    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8273    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8274    | CHIP TANTAL  | TCFGA-1C106M8R  | 1    | 396041007R2 |  |
| C8274 or | CHIP TANTAL  | TCSCS1C106MAAR  | ( 1) | 396541007R2 |  |
| C8275    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8276    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8277    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8278    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8279    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8280    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8281    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8282    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8283    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8284    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8285    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8286    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8287    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8288    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8289    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8290    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8291    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8292    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8293    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8294    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8295    | C-CERA C     | CK725F1H-104Z1  | 1    | 332151040R1 |  |
| C8326    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8327    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8328    | CHIP ELECT C | CEWX16V-22M     | 1    | 398142207R2 |  |
| C8329    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8330    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8348    | C-CERA C     | CC725CH1H-102J1 | 1    | 342101024R1 |  |
| C8376    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8377    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8378    | CHIP ELECT C | CEWX16V-22M     | 1    | 398142207R2 |  |
| C8379    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8380    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8398    | C-CERA C     | CC725CH1H-102J1 | 1    | 342101024R1 |  |
| C8399    | C-CERA C     | CC725CH1H-102J1 | 1    | 342101024R1 |  |
| C8401    | CHIP ELECT C | CEWX4V-22M      | 1    | 3981G2207R2 |  |
| C8402    | CHIP ELECT C | CEWX4V-22M      | 1    | 3981G2207R2 |  |
| C8403    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8404    | C-CERA C     | CC725CH1H-102J1 | 1    | 342101024R1 |  |
| C8405    | C-CERA C     | CK725F1A-105Z1  | 1    | 332181050R1 |  |
| C8406    | C-CERA C     | CC725CH1H-102J1 | 1    | 342101024R1 |  |
| C8407    | C-CERA C     | CC725CH1H-100D1 | 1    | 342101002R1 |  |

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| C8408    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |
| C8409    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |
| C8410    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8411    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8412    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8413    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8414    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8415    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8416    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8417    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8418    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |
| C8419    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8420    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8421    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8422    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8423    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8424    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8425    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8426    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8427    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8428    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8429    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8430    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8431    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8432    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8433    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8434    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8435    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8441    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8442    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8443    | CHIP ELECT C | CEWX4V-220M     | 1   | 3981G2217R2 |
| C8444    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8449    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8451    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |
| C8451 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |
| C8452    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |
| C8452 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |
| C8453    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8454    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8455    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8456    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8457    | C-CERA C     | CC725CH1H-100D1 | 1   | 342101002R1 |
| C8458    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |
| C8459    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |
| C8459 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |
| C8460    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8461    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8462    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |
| C8463    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |
| C8464    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |

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| C8465    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8466    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8467    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8468    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |  |
| C8468 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |  |
| C8469    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8470    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8471    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8472    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8473    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8474    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8475    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8476    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8477    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8478    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8479    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8480    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8481    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8482    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8483    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8484    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8485    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8491    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8492    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8493    | CHIP ELECT C | CEWX4V-220M     | 1   | 3981G2217R2 |  |
| C8501    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8502    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |  |
| C8503    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8504    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8505    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |  |
| C8506    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8507    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8508    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8509    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8510    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8511    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8512    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8513    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8514    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8515    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8516    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8517    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8518    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8519    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8520    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8521    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8522    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8523    | C-CERA C     | CK725B1H-102K1  | 1   | 332101025R1 |  |
| C8524    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8529    | CHIP ELECT C | CEWX4V-22M      | 1   | 3981G2207R2 |  |

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| C8530 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8531 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8532 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8533 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8534 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8535 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8536 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8537 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8538 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8539 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8540 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8541 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8542 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8543 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8544 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8545 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8546 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8547 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8548 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8549 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8550 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8551 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8552 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8553 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8554 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8555 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8556 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8557 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8558 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8559 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8560 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8561 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8562 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8563 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8564 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8565 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8566 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8567 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8568 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8569 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8570 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8571 | CHIP ELECT C | CEWX4V-22M      | 1 | 3981G2207R2 |  |
| C8572 | C-CERA C     | CK725B1H-102K1  | 1 | 332101025R1 |  |
| C8573 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8574 | C-CERA C     | CC725CH1H-120J1 | 1 | 342101204R1 |  |
| C8575 | C-CERA C     | CC725CH1H-120J1 | 1 | 342101204R1 |  |
| C8601 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8602 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8604 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |  |
| C8605 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |  |

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| C8608 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8609 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |
| C8675 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |
| C8676 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8687 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8701 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8702 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8703 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8704 | CHIP ELECT C | CEWX50V-4.7M    | 1 | 398180477R2 |
| C8705 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8706 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8707 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8708 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8709 | CHIP ELECT C | CEWX4V-220M     | 1 | 3981G2217R2 |
| C8710 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8725 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |
| C8726 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8801 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |
| C8802 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8803 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8804 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8805 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8806 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8807 | C-CERA C     | CK725B1C-104K1  | 1 | 332121045R1 |
| C8808 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8809 | C-CERA C     | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8810 | CHIP ELECT C | CEWX16V-10M     | 1 | 398141007R2 |
| C8811 | CHIP ELECT C | CEWX16V-10M     | 1 | 398141007R2 |
| C8812 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8813 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8814 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8815 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8816 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8817 | CHIP ELECT C | CEWX16V-10M     | 1 | 398141007R2 |
| C8818 | CHIP ELECT C | CEWX16V-10M     | 1 | 398141007R2 |
| C8819 | C-CERA C     | CC725CH1H-102J1 | 1 | 342101024R1 |
| C8820 | C-CERA C     | CC725CH1H-101J1 | 1 | 342101014R1 |
| C8821 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8822 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8823 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8824 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8825 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8826 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8827 | C-CERA C     | CK725B1H-223K1  | 1 | 332102235R1 |
| C8828 | C-CERA C     | CK725B1C-823K1  | 1 | 332128235R1 |
| C8829 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8830 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8831 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |
| C8833 | C-CERA C     | CC725CH1H-070D1 | 1 | 342100702R1 |
| C8834 | C-CERA C     | CC725CH1H-070D1 | 1 | 342100702R1 |

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| C8835 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8836 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8837 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8838 | C-CERA C     | CC725CH1H-470J1 | 1 | 342104704R1 |  |
| C8839 | C-CERA C     | CC725CH1H-470J1 | 1 | 342104704R1 |  |
| C8840 | C-CERA C     | CC725CH1H-470J1 | 1 | 342104704R1 |  |
| C8841 | CHIP ELECT C | CEWX16V-10M     | 1 | 398141007R2 |  |
| C8843 | CHIP ELECT C | CEWX4V-100M     | 1 | 3981G1017R2 |  |
| C8848 | C-CERA C     | CC725CH1H-330J1 | 1 | 342103304R1 |  |
| C8849 | C-CERA C     | CC725CH1H-330J1 | 1 | 342103304R1 |  |
| C8850 | C-CERA C     | CC725CH1H-330J1 | 1 | 342103304R1 |  |
| C8851 | C-CERA C     | CC725CH1H-820J1 | 1 | 342108204R1 |  |
| C8852 | C-CERA C     | CC725CH1H-820J1 | 1 | 342108204R1 |  |
| C8853 | C-CERA C     | CC725CH1H-820J1 | 1 | 342108204R1 |  |
| C8854 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8855 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8856 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8857 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8858 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8859 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8860 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8861 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8862 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8863 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8864 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8865 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8866 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8867 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8868 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8869 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8870 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8871 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8872 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8873 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8874 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8875 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8876 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8877 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8878 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8879 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8880 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8881 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8882 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8883 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8884 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8885 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8886 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8887 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8888 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |
| C8889 | C-CERA C     | CK725F1H-104Z1  | 1 | 332151040R1 |  |



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| C8890    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8891    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8892    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8893    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8894    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8895    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8896    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8897    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8898    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8899    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8901    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8902    | CHIP ELECT C | CEWX4V-220M     | 1   | 3981G2217R2 |  |
| C8903    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8904    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8905    | C-CERA C     | CC725CH1H-102J1 | 1   | 342101024R1 |  |
| C8906    | C-FILM C     | ECHU50V-392J    | 1   | 373023924R2 |  |
| C8907    | C-CERA C     | CC725CH1H-821J1 | 1   | 342108214R1 |  |
| C8908    | C-CERA C     | CK725B1C-104K1  | 1   | 332121045R1 |  |
| C8909    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8910    | C-CERA C     | CK725B1C-104K1  | 1   | 332121045R1 |  |
| C8911    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8912    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8914    | CHIP ELECT C | CEWX4V-220M     | 1   | 3981G2217R2 |  |
| C8916    | CHIP ELECT C | CEWX4V-220M     | 1   | 3981G2217R2 |  |
| C8917    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8918    | CHIP ELECT C | CEWX16V-47M     | 1   | 398144707R2 |  |
| C8919    | CHIP TANTAL  | F93-10V-47M     | 1   | 395534707R2 |  |
| C8919 or | CHIP TANTAL  | TCSCS1A476MBAR  | (1) | 396534707R2 |  |
| C8920    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8921    | CHIP TANTAL  | F93-10V-220M    | 1   | 395532217R2 |  |
| C8921 or | CHIP TANTAL  | TCSCS1A227MDAR  | (1) | 396532217R2 |  |
| C8922    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8923    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8924    | C-CERA C     | CC725CH1H-120J1 | 1   | 342101204R1 |  |
| C8925    | C-CERA C     | CC725CH1H-120J1 | 1   | 342101204R1 |  |
| C8931    | CHIP ELECT C | CEWX6.3V-330M   | 1   | 398123317R2 |  |
| C8932    | CHIP ELECT C | CEWX6.3V-330M   | 1   | 398123317R2 |  |
| C8933    | C-CERA C     | CK725F1A-105Z1  | 1   | 332181050R1 |  |
| C8934    | C-CERA C     | CK725F1H-103Z1  | 1   | 332151030R1 |  |
| C8935    | C-CERA C     | CK725F1H-103Z1  | 1   | 332151030R1 |  |
| C8950    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8951    | C-CERA C     | CK725F1H-104Z1  | 1   | 332151040R1 |  |
| C8952    | CHIP TANTAL  | TCFGA-1C106M8R  | 1   | 396041007R2 |  |
| C8952 or | CHIP TANTAL  | TCSCS1C106MAAR  | (1) | 396541007R2 |  |
| C8955    | CD C         | UCD1A471MNL1GS  | 1   | 396634717R2 |  |
| C8956    | CD C         | UCD1A471MNL1GS  | 1   | 396634717R2 |  |
| C8957    | CD C         | UCD1A471MNL1GS  | 1   | 396634717R2 |  |
| C8958    | CD C         | UCD1A471MNL1GS  | 1   | 396634717R2 |  |
| C8959    | C-CERA C     | CK725B1H-682K1  | 1   | 332106825R1 |  |
| C8960    | C-CERA C     | CK725B1H-682K1  | 1   | 332106825R1 |  |

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| C8961 | C-CERA C   | CK725B1H-682K1  | 1 | 332106825R1 |
| C8962 | C-CERA C   | CK725B1H-682K1  | 1 | 332106825R1 |
| C8963 | C-CERA C   | CK725B1H-223K1  | 1 | 332102235R1 |
| C8964 | C-CERA C   | CC725CH1H-102J1 | 1 | 342101024R1 |
| C8965 | C-CERA C   | CC725CH1H-102J1 | 1 | 342101024R1 |
| C8966 | C-CERA C   | CC725CH1H-102J1 | 1 | 342101024R1 |
| C8967 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8968 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8969 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8970 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8971 | C-CERA C   | CK725F1H-473Z1  | 1 | 332154730R1 |
| C8972 | C-CERA C   | CK725F1H-473Z1  | 1 | 332154730R1 |
| C8973 | C-CERA C   | CK725F1H-473Z1  | 1 | 332154730R1 |
| C8974 | C-CERA C   | CK725F1H-473Z1  | 1 | 332154730R1 |
| C8975 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8976 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8977 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8978 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8979 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8980 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8981 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8982 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8983 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8984 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8985 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8986 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8989 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8990 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8991 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8992 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8993 | CD C       | UCD1E221MNL1GS  | 1 | 396652217R2 |
| C8994 | CD C       | UCD1E221MNL1GS  | 1 | 396652217R2 |
| C8995 | CD C       | UCD1E221MNL1GS  | 1 | 396652217R2 |
| C8996 | CD C       | UCD1E221MNL1GS  | 1 | 396652217R2 |
| C8997 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8998 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| C8999 | C-CERA C   | CK725F1A-105Z1  | 1 | 332181050R1 |
| R8001 | C-CARBON R | RN72K1J-103JE   | 1 | 435031034R1 |
| R8004 | C-CARBON R | RN72K1J-472JE   | 1 | 435034724R1 |
| R8005 | C-CARBON R | RN72K1J-103JE   | 1 | 435031034R1 |
| R8006 | C-CARBON R | RN72K1J-330JE   | 1 | 435033304R1 |
| R8012 | C-CARBON R | RN72K1J-473JE   | 1 | 435034734R1 |
| R8013 | C-CARBON R | RN72K1J-102JE   | 1 | 435031024R1 |
| R8014 | C-CARBON R | RN72K1J-562JE   | 1 | 435035624R1 |
| R8015 | C-CARBON R | RN72K1J-562JE   | 1 | 435035624R1 |
| R8016 | C-CARBON R | RN72K1J-000JE   | 1 | 435030004R1 |
| R8018 | C-CARBON R | RN72K1J-473JE   | 1 | 435034734R1 |
| R8019 | C-CARBON R | RN72K1J-000JE   | 1 | 435030004R1 |
| R8020 | C-CARBON R | RN72K1J-000JE   | 1 | 435030004R1 |
| R8021 | C-CARBON R | RN72K1J-000JE   | 1 | 435030004R1 |

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| R8023 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8032 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8033 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R8034 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8035 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8036 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8038 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8039 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8040 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8041 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8043 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8051 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8054 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1 |  |
| R8055 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8062 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8063 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R8064 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8065 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8066 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8068 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8069 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8070 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8071 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8073 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8082 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8083 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1 |  |
| R8084 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8085 | C-CARBON R | RN72K1J-562JE | 1 | 435035624R1 |  |
| R8086 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8088 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8089 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8090 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8091 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R8093 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1 |  |
| R8099 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1 |  |
| R8106 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8107 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8110 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1 |  |
| R8111 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R8112 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R8113 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8114 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R8115 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R8116 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8118 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R8119 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R8120 | C-CARBON R | RN72K2B-000JE | 1 | 433220004R1 |  |
| R8121 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1 |  |
| R8122 | C-CARBON R | RN72K2B-000JE | 1 | 433220004R1 |  |
| R8123 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |

|       |            |               |   |               |
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| R8124 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8125 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8126 | C-CARBON R | RN72K1J-271JE | 1 | 435032714R1   |
| R8127 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8128 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |
| R8129 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8130 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |
| R8136 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |
| R8140 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |
| R8141 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |
| R8147 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8149 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8150 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8151 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8154 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |
| R8157 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8158 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8168 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |
| R8197 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |
| R8198 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |
| R8251 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8323 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8324 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |
| R8325 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |
| R8326 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |
| R8334 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |
| R8335 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |
| R8341 | C-CARBON R | RN72K2E-470JE | 1 | 435224704R1   |
| R8373 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |
| R8374 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |
| R8375 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |
| R8376 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |
| R8384 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |
| R8385 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |
| R8391 | C-CARBON R | RN72K2E-470JE | 1 | 435224704R1   |
| R8401 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8402 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |
| R8403 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8404 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |
| R8405 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |
| R8406 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8407 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8409 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |
| R8410 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |
| R8411 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |
| R8416 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8417 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8418 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8419 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |
| R8420 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |

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| R8421 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8422 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8423 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8424 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8425 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8429 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8431 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8432 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8442 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8443 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8444 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8446 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8447 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8451 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8452 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8453 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8454 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8455 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8456 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8457 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8459 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8460 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8462 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8466 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8467 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8468 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8469 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8470 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8471 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8472 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8473 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8474 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8475 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8479 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8481 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8482 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8492 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8493 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8503 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8504 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8505 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8506 | C-CARBON R | RN72K1J-120JE | 1 | 435031204R1   |  |
| R8507 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8508 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8509 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8510 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8511 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8512 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8513 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8514 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |

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| R8515 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8516 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1   |  |
| R8517 | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1   |  |
| R8518 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8519 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8520 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1   |  |
| R8521 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |  |
| R8522 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1   |  |
| R8523 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1   |  |
| R8524 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1   |  |
| R8615 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8616 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8617 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8618 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8629 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |  |
| R8630 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |  |
| R8631 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |  |
| R8632 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |  |
| R8633 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8662 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1   |  |
| R8663 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1   |  |
| R8701 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8703 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8706 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8707 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8708 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8710 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8711 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |  |
| R8712 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |  |
| R8713 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8714 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8715 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8716 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8717 | C-CARBON R | RN72K1J-330JE | 1 | 435033304R1   |  |
| R8718 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8719 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8720 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8721 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8722 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8723 | C-R NET    | RM7LJ222X04   | 1 | 43484722204R2 |  |
| R8726 | C-R NET    | RM7LJ222X04   | 1 | 43484722204R2 |  |
| R8727 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8728 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8729 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8730 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8732 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8733 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8734 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8735 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8736 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |



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| R8737 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8738 | C-CARBON R | RN72K1J-473JE | 1 | 435034734R1   |  |
| R8741 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8744 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8745 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8746 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8747 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8748 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8749 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8750 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8751 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8752 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8753 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8758 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8759 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8760 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8761 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8762 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8763 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8765 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8766 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8769 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8770 | C-R NET    | RM7LJ103X04   | 1 | 43484710304R2 |  |
| R8800 | C-CARBON R | RN72K1J-561JE | 1 | 435035614R1   |  |
| R8801 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8802 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8803 | EMIFIL     | BK1608HS601-T | 1 | 230984R1      |  |
| R8804 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8805 | EMIFIL     | BK1608HS601-T | 1 | 230984R1      |  |
| R8806 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8807 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1   |  |
| R8808 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1   |  |
| R8809 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1   |  |
| R8810 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1   |  |
| R8811 | C-CARBON R | RN72K1J-560JE | 1 | 435035604R1   |  |
| R8812 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1   |  |
| R8813 | C-CARBON R | RN72K1J-272FE | 1 | 435032722R1   |  |
| R8814 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8815 | C-CARBON R | RN72K1J-272FE | 1 | 435032722R1   |  |
| R8816 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8817 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8819 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8820 | C-CARBON R | RN72K1J-333JE | 1 | 435033334R1   |  |
| R8821 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1   |  |
| R8823 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8824 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8825 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8826 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8827 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1   |  |
| R8828 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |

|       |            |               |   |               |  |
|-------|------------|---------------|---|---------------|--|
| R8830 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8831 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8833 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8834 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8835 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8836 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8837 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8838 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8839 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8840 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8841 | C-R NET    | RM7LJ220X04   | 1 | 43484722004R2 |  |
| R8842 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8843 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8844 | C-CARBON R | RN72K1J-180JE | 1 | 435031804R1   |  |
| R8845 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8846 | C-CARBON R | RN72K1J-180JE | 1 | 435031804R1   |  |
| R8847 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8848 | C-CARBON R | RN72K1J-680JE | 1 | 435036804R1   |  |
| R8849 | C-CARBON R | RN72K1J-180JE | 1 | 435031804R1   |  |
| R8850 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |  |
| R8851 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |  |
| R8852 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |  |
| R8853 | C-CARBON R | RN72K1J-331JE | 1 | 435033314R1   |  |
| R8854 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8855 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8856 | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1   |  |
| R8857 | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1   |  |
| R8858 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8860 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8861 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8862 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8863 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8864 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8865 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8869 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8870 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8871 | C-CARBON R | RN72K1J-750FE | 1 | 435037502R1   |  |
| R8872 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8873 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8874 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8879 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8880 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8881 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8882 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8883 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8890 | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1   |  |
| R8891 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1   |  |
| R8892 | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1   |  |
| R8893 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |
| R8901 | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1   |  |

|       |            |               |   |               |  |
|-------|------------|---------------|---|---------------|--|
| R8905 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8906 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8907 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8908 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8909 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8910 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8911 | C-CARBON R | RN72K1J-272FE | 1 | 435032722R1   |  |
| R8912 | C-CARBON R | RN72K1J-272FE | 1 | 435032722R1   |  |
| R8913 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8914 | C-CARBON R | RN72K1J-681FE | 1 | 435036812R1   |  |
| R8915 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8917 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8919 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8920 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8921 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8922 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8923 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8924 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8925 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8926 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8927 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8928 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |  |
| R8929 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8930 | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1   |  |
| R8931 | C-CARBON R | RN72K1J-151FE | 1 | 435031512R1   |  |
| R8932 | C-CARBON R | RN72K1J-151FE | 1 | 435031512R1   |  |
| R8933 | C-CARBON R | RN72K1J-151FE | 1 | 435031512R1   |  |
| R8934 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1   |  |
| R8935 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1   |  |
| R8936 | C-CARBON R | RN72K1J-182JE | 1 | 435031824R1   |  |
| R8937 | C-R NET    | RM7LJ473X04   | 1 | 43484747304R2 |  |
| R8938 | C-R NET    | RM7LJ473X04   | 1 | 43484747304R2 |  |
| R8939 | C-R NET    | RM7LJ473X04   | 1 | 43484747304R2 |  |
| R8940 | C-R NET    | RM7LJ473X04   | 1 | 43484747304R2 |  |
| R8941 | C-R NET    | RM7LJ222X04   | 1 | 43484722204R2 |  |
| R8942 | C-CARBON R | RN72K1J-472JE | 1 | 435034724R1   |  |
| R8951 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8952 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8953 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8954 | C-CARBON R | RN72K1J-470JE | 1 | 435034704R1   |  |
| R8955 | C-CARBON R | RN72K1J-121JE | 1 | 435031214R1   |  |
| R8956 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1   |  |
| R8957 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1   |  |
| R8958 | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1   |  |
| R8959 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8960 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8961 | C-CARBON R | RN72K1J-471FE | 1 | 435034712R1   |  |
| R8962 | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |  |
| R8964 | C-CARBON R | RN72K1J-152JE | 1 | 435031524R1   |  |
| R8965 | C-CARBON R | RN72K1J-392JE | 1 | 435033924R1   |  |

|        |            |               |   |               |
|--------|------------|---------------|---|---------------|
| R8966  | C-CARBON R | RN72K1J-223JE | 1 | 435032234R1   |
| R8967  | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |
| R8968  | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |
| R8970  | C-CARBON R | RN72K1J-102JE | 1 | 435031024R1   |
| RN8013 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8014 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8015 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8016 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8017 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8018 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8019 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8020 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8021 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8022 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8023 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8024 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8025 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8026 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8027 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8028 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8029 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8030 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8037 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8038 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8039 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8041 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8043 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8045 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8048 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8049 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8050 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8051 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8052 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8053 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8054 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8055 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8056 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8057 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8058 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8059 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8060 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8061 | C-R NET    | RM7LJ330X04   | 1 | 43484733004R2 |
| RN8062 | C-R NET    | RM7LJ680X04   | 1 | 43484768004R2 |
| RN8063 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |
| RN8064 | C-R NET    | RM7LJ680X04   | 1 | 43484768004R2 |
| RN8065 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |
| RN8066 | C-R NET    | RM7LJ680X04   | 1 | 43484768004R2 |
| RN8067 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |
| RN8068 | C-R NET    | RM7LJ680X04   | 1 | 43484768004R2 |
| RN8069 | C-R NET    | RM7LJ470X04   | 1 | 43484747004R2 |

|         |           |                |   |               |  |
|---------|-----------|----------------|---|---------------|--|
| RN8070  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8071  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8072  | C-R NET   | RM7LJ470X04    | 1 | 43484747004R2 |  |
| RN8073  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8074  | C-R NET   | RM7LJ470X04    | 1 | 43484747004R2 |  |
| RN8075  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8076  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8077  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8078  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8079  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8080  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8081  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8082  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8083  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8087  | C-R NET   | RM7LJ103X04    | 1 | 43484710304R2 |  |
| RN8088  | C-R NET   | RM7LJ103X04    | 1 | 43484710304R2 |  |
| RN8089  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8091  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8093  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8095  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8097  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8099  | C-R NET   | RM7LJ000X04    | 1 | 43484700004R2 |  |
| RN8703  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8704  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8705  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| RN8706  | C-R NET   | RM7LJ680X04    | 1 | 43484768004R2 |  |
| JL8002B | WIRE TRAP | NPLG-5P588     | 1 | 25055626      |  |
| P2801B  | SOCKET    | NSCT-31P2124   | 1 | 25052227      |  |
| P3805B  | SOCKET    | NSCT-10P1025   | 1 | 25051235      |  |
| P8001   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8002   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8002A  | SOCKET    | NSCT-15P1030   | 1 | 25051240      |  |
| P8051   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8052   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8099   | WS CLAMP  | CB-71683(L=50) | 1 | 260261        |  |
| P8302   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8352   | SOCKET    | YKF45-7037V    | 1 | 25053253R3    |  |
| P8702   | SOCKET    | NSCT-8P2471    | 1 | 25052574R2    |  |
| P8704   | SOCKET    | NSCT-8P2471    | 1 | 25052574R2    |  |

#### U27 HD RADIO PC BOARD (NARF-9118-1A)

| REF. NO. | PART NAME | DESCRIPTION         | Q'TY | PART NO. (SN) | REMARKS |
|----------|-----------|---------------------|------|---------------|---------|
| U1       | FRONTEND  | HD RADIO MODULE     | 1    | 240160        |         |
| Q1       | IC        | TA48018AF(TE16L_NQ) | 1    | 22278018DR2TO |         |
| Q1 or    | IC        | BA18BC0FP           | (1)  | 22278018DR2RH |         |
| Q10      | IC        | NE5532APSR          | 1    | 22242283R2    |         |
| Q11      | IC        | XC6213B332MR        | 1    | 22242277R2    |         |
| Q3       | IC        | NJM2903V            | 1    | 22241675R2    |         |
| Q4       | IC        | CS4344-CZZR         | 1    | 22242406R2    |         |

|     |            |                    |   |               |  |
|-----|------------|--------------------|---|---------------|--|
| Q6  | IC         | BA50BC0FP          | 1 | 22278005DR2RH |  |
| Q7  | IC         | BA33BC0FP          | 1 | 22278033DR2RH |  |
| Q8  | IC         | BD7820             | 1 | 22242300R2    |  |
| Q9  | IC         | NE5532APSR         | 1 | 22242283R2    |  |
| L2  | EMIFIL     | BK1608LM182-T      | 1 | 230958R1      |  |
| L3  | EMIFIL     | BK1608LM182-T      | 1 | 230958R1      |  |
| L4  | CHOKE COIL | NCH-1471           | 1 | 231237K022R2  |  |
| C1  | VR C       | CE04W10V-470M(VR)  | 1 | 394634717T    |  |
| C10 | C-CERA C   | CK725F1H-224Z1     | 1 | 332152240R1   |  |
| C11 | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C12 | VR C       | CE04W10V-470M(VR)  | 1 | 394634717T    |  |
| C13 | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C14 | VR C       | CE04W10V-470M(VR)  | 1 | 394634717T    |  |
| C15 | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C16 | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C17 | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C18 | VR C       | CE04W16V-100M(VR)  | 1 | 394641017T    |  |
| C19 | UTSP C     | CE04W50V-10M(UTSP) | 1 | 397581007T    |  |
| C2  | VR C       | CE04W10V-470M(VR)  | 1 | 394634717T    |  |
| C20 | C-CERA C   | CK732B1A-105K      | 1 | 337361055R2   |  |
| C22 | C-CERA C   | CC725CH1H-102J1    | 1 | 342101024R1   |  |
| C23 | C-CERA C   | CC725CH1H-102J1    | 1 | 342101024R1   |  |
| C24 | C-CERA C   | CC725CH1H-102J1    | 1 | 342101024R1   |  |
| C25 | C-CERA C   | CC725CH1H-102J1    | 1 | 342101024R1   |  |
| C26 | UTSP C     | CE04W50V-10M(UTSP) | 1 | 397581007T    |  |
| C27 | UTSP C     | CE04W50V-10M(UTSP) | 1 | 397581007T    |  |
| C3  | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C4  | UTSP C     | CE04W50V-10M(UTSP) | 1 | 397581007T    |  |
| C7  | VR C       | CE04W10V-470M(VR)  | 1 | 394634717T    |  |
| C8  | C-CERA C   | CK725F1H-104Z1     | 1 | 332151040R1   |  |
| C9  | UTSP C     | CE04W50V-10M(UTSP) | 1 | 397581007T    |  |
| R1  | C-CARBON R | RN72K1J-822JE      | 1 | 435038224R1   |  |
| R10 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| R11 | C-CARBON R | RN72K1J-222JE      | 1 | 435032224R1   |  |
| R12 | C-CARBON R | RN72K1J-222JE      | 1 | 435032224R1   |  |
| R13 | TRIM R     | N06HR2KBB          | 1 | 5211402T      |  |
| R14 | C-CARBON R | RN72K1J-103JE      | 1 | 435031034R1   |  |
| R15 | C-CARBON R | RN72K1J-470JE      | 1 | 435034704R1   |  |
| R16 | C-CARBON R | RN72K1J-472JE      | 1 | 435034724R1   |  |
| R17 | C-CARBON R | RN72K1J-472JE      | 1 | 435034724R1   |  |
| R18 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| R19 | C-CARBON R | RN72K1J-470JE      | 1 | 435034704R1   |  |
| R2  | C-CARBON R | RN72K1J-101JE      | 1 | 435031014R1   |  |
| R20 | C-CARBON R | RN72K1J-105JE      | 1 | 435031054R1   |  |
| R21 | C-CARBON R | RN72K1J-682JE      | 1 | 435036824R1   |  |
| R22 | C-CARBON R | RN72K1J-471JE      | 1 | 435034714R1   |  |
| R23 | C-CARBON R | RN72K1J-470JE      | 1 | 435034704R1   |  |
| R24 | C-CARBON R | RN72K1J-470JE      | 1 | 435034704R1   |  |
| R25 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |
| R26 | C-CARBON R | RN72K1J-000JE      | 1 | 435030004R1   |  |



|       |            |               |   |             |  |
|-------|------------|---------------|---|-------------|--|
| R27   | C-CARBON R | RN72K1J-273JE | 1 | 435032734R1 |  |
| R28   | C-CARBON R | RN72K1J-393JE | 1 | 435033934R1 |  |
| R29   | C-CARBON R | RN72K1J-273JE | 1 | 435032734R1 |  |
| R3    | C-CARBON R | RN72K1J-105JE | 1 | 435031054R1 |  |
| R30   | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1 |  |
| R31   | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1 |  |
| R33   | C-CARBON R | RN72K1J-220JE | 1 | 435032204R1 |  |
| R34   | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R35   | C-CARBON R | RN72K1J-000JE | 1 | 435030004R1 |  |
| R38   | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R39   | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R4    | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R40   | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R41   | C-CARBON R | RN72K1J-222JE | 1 | 435032224R1 |  |
| R42   | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R43   | C-CARBON R | RN72K1J-104JE | 1 | 435031044R1 |  |
| R44   | C-CARBON R | RN72K1J-122JE | 1 | 435031224R1 |  |
| R45   | C-CARBON R | RN72K1J-122JE | 1 | 435031224R1 |  |
| R46   | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R47   | C-CARBON R | RN72K1J-332JE | 1 | 435033324R1 |  |
| R48   | C-CARBON R | RN72K1J-822JE | 1 | 435038224R1 |  |
| R49   | C-CARBON R | RN72K1J-822JE | 1 | 435038224R1 |  |
| R5    | TRIM R     | N06HR2KBB     | 1 | 5211402T    |  |
| R50   | C-CARBON R | RN72K1J-682JE | 1 | 435036824R1 |  |
| R51   | C-CARBON R | RN72K1J-682JE | 1 | 435036824R1 |  |
| R52   | METAL O R  | RS1/2WBJ-10   | 1 | 443521004T  |  |
| R6    | C-CARBON R | RN72K1J-103JE | 1 | 435031034R1 |  |
| R7    | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| R8    | C-CARBON R | RN72K1J-101JE | 1 | 435031014R1 |  |
| P1    | TRM        | NTM-4PDML401  | 1 | 25060473    |  |
| P101A | SOCKET     | NSCT-13P2106  | 1 | 25052209    |  |
| P5    | PLUG       | NPLG-4P118    | 1 | 25055134    |  |

PR-SC885

## PACKING PROCEDURE PARTS LIST

| REF. NO. | NAME      | DESCRIPTION          | Q`TY | PART NO(SN) | REMARKS |
|----------|-----------|----------------------|------|-------------|---------|
| A600     | SHEET     | .                    | 1    | 29095906    |         |
| A602     | TAPE      | (SEROHAN)NITTO NO.29 | 1    | 29110149    |         |
| A603     | SHEET     | T0.515*1300*900      | 1    | 29096066    |         |
| A604     | POLY BAG  | (W1020xD770)         | 1    | 29100253    |         |
| A608     | PAD       | AS                   | 1    | 29092367    | [U]     |
| A608     | PAD       | AS                   | 1    | 29092384    | [M]     |
| A610     | CARTON    | PR-SC885(B)          | 1    | 29054759    |         |
| A614a    | UPC LABEL | PR-SC885(B)          | 1    | 29364938    | [U]     |
| A614a    | UPC LABEL | PRSC885BMDD          | 1    | 29390278    | [M]     |
| A620     | CARTON    | (ACC)                | 1    | 29054767    | [U]     |
| A620     | CARTON    | (ACC)                | 1    | 29054470    | [M]     |
| A622     | PP TAPE   | W48 OPP TAPE         | 1    | 29110148    |         |

|         |            |                              |      |           |     |
|---------|------------|------------------------------|------|-----------|-----|
| A623    | TAPE       | NITTO 3703 W50L100           | 1    | 29110176  | [U] |
| A624    | STAPLE     | FUKAN-BARI(1000KO)           | 4    | 282321    |     |
| A803    | POLY BAG   | w250xd350                    | 1    | 29100250A |     |
| A815    | INS MANUAL | En(PR-SC885)                 | 1    | 29344463  |     |
| A819    | INS MANUAL | U9(RC-687M-692M)             | 1    | 29344467  |     |
| A833    | INST SHEET | En(XM RADIO)                 | 1    | 29355602  |     |
| A835    | REMO CON   | RC-690M                      | 1    | 24140690  |     |
| A840    | ANT COIL   | NMA-3064                     | 1    | 232201    |     |
| A842    | FM ANT AS  | Type W                       | 1    | 292191    |     |
| A844    | BATTERY    | R6/AA(UM-3)                  | 3    | 3010194   |     |
| A844 or | BATTERY    | R6/AA(UM-3)                  | ( 3) | 3010054   |     |
| A848    | POLY BAG   | t0.1*70*100                  | 1    | 29100217A |     |
| A854    | HANDBILL   | (DS-A2X)US                   | 1    | 29380150  |     |
| A856    | WRNTY CARD | (INTEGRA)                    | 1    | 29365103  |     |
| A863    | INST SHEET | En(Audyssey Pro)             | 1    | 29355629  |     |
| A865    | INST SHEET | En(Audyssey ForInstaller)pro | 1    | 29355687  |     |
| A866    | INST SHEET | U10(07REC HDMI)              | 1    | 29355689  |     |
| A867    | INST SHEET | U3EnFrEs(EZ Sync 805series)  | 1    | 29355647B |     |
| A880    | HANDBILL   | (SIRIUS)                     | 1    | 29380149  |     |
| A883    | INST SHEET | U10(Remocon 805series)       | 1    | 29355664  |     |
| P901    | AC CORD    | AS-UC-2                      | 1    | 253301VOL | !   |
| U016    | MIC AS     | MIC-5000                     | 1    | 1B068MIC  |     |

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