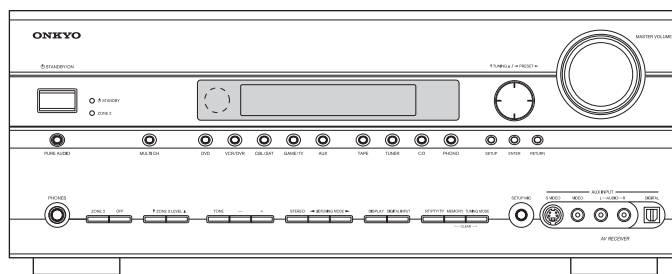


ONKYO SERVICE MANUAL

AV RECEIVER MODEL TX-SR705 MODEL TX-SA705



RC-693M

TX-SR705 Black, Golden and Silver models

B MDC, S MDC, G MDT	120V AC, 60Hz
B MMP, MMA, S MMP, MMA	220-240V AC, 50Hz
B MMO, S MMO	220-240V AC, 50/60Hz
G MMQ, MMK, MMT	220-240V AC, 50/60Hz

TX-SA705 Golden models

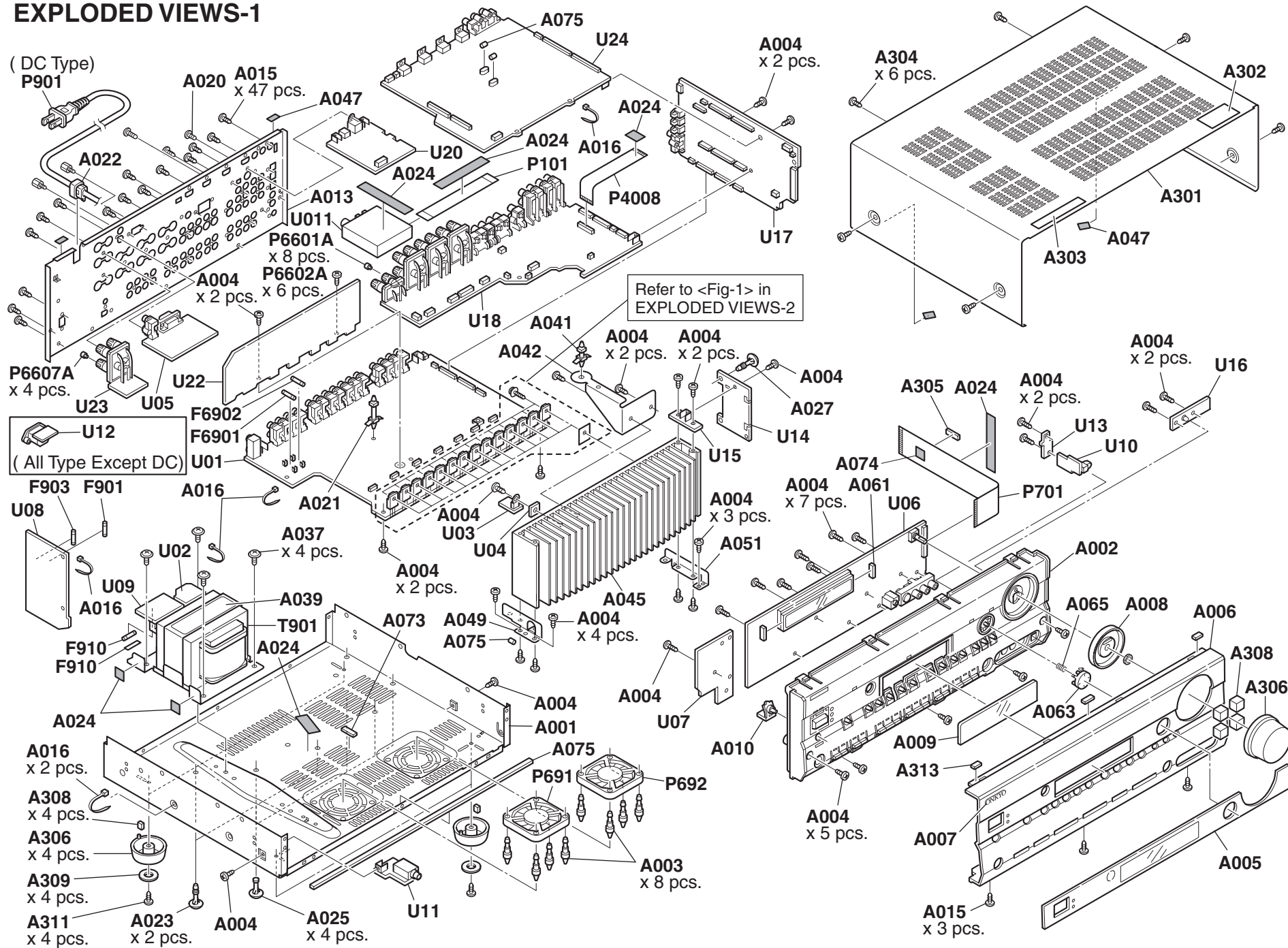
G MMR	220-240V AC, 50/60Hz
-------	----------------------

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.

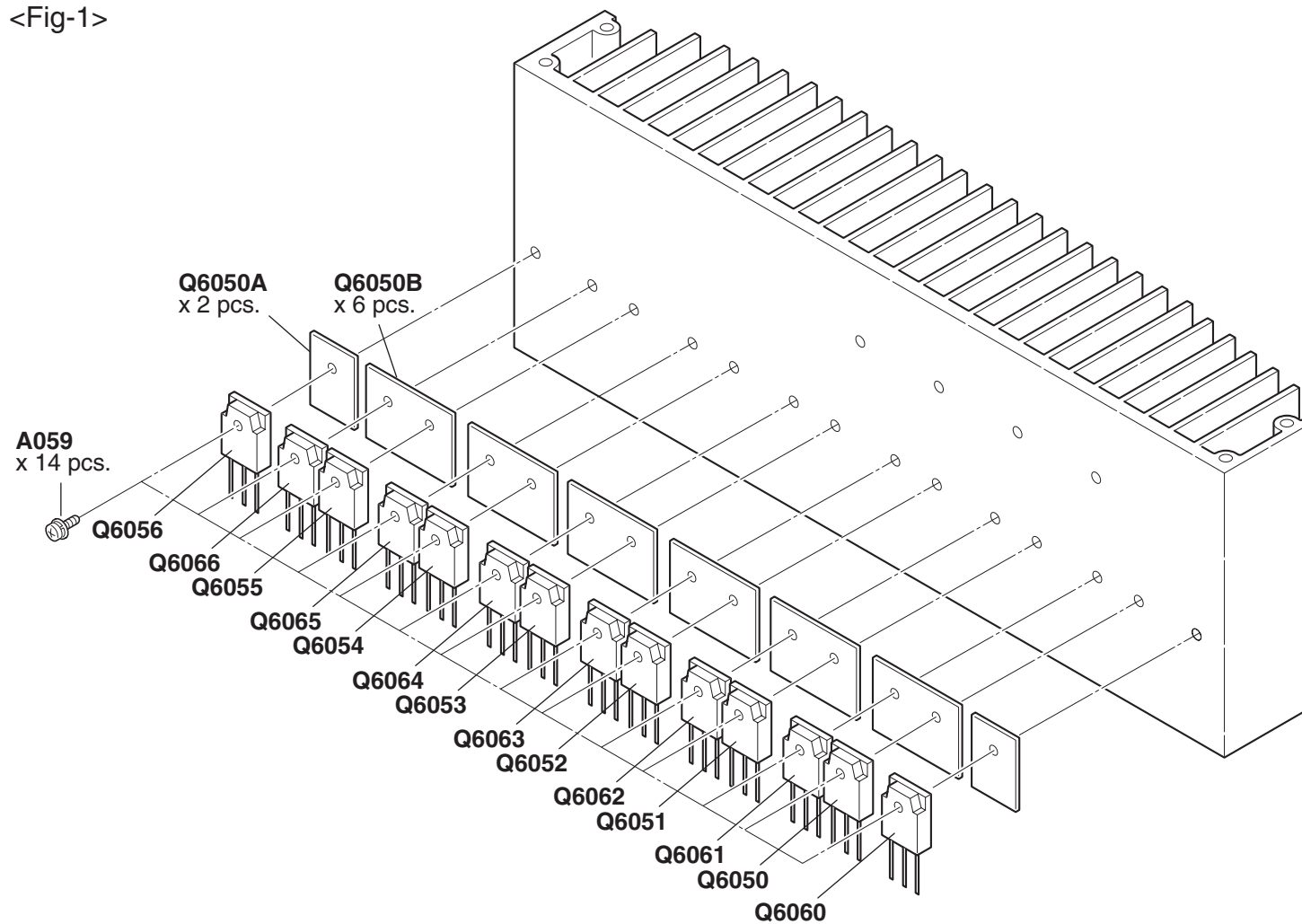
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

EXPLODED VIEWS-1



EXPLODED VIEWS-2

<Fig-1>



A

B

C

D

BLOCK DIAGRAMS-1

AUDIO SECTION

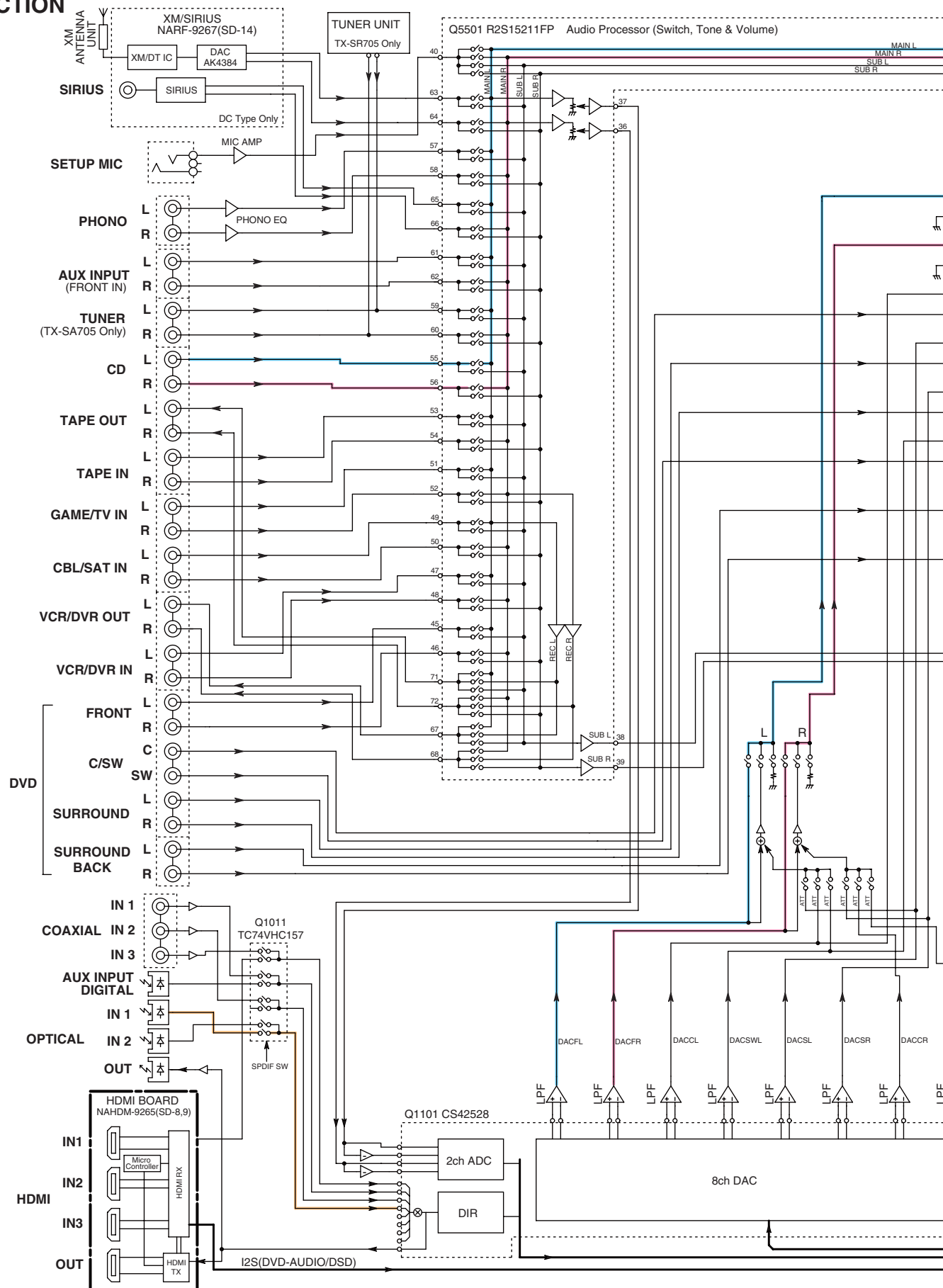
1

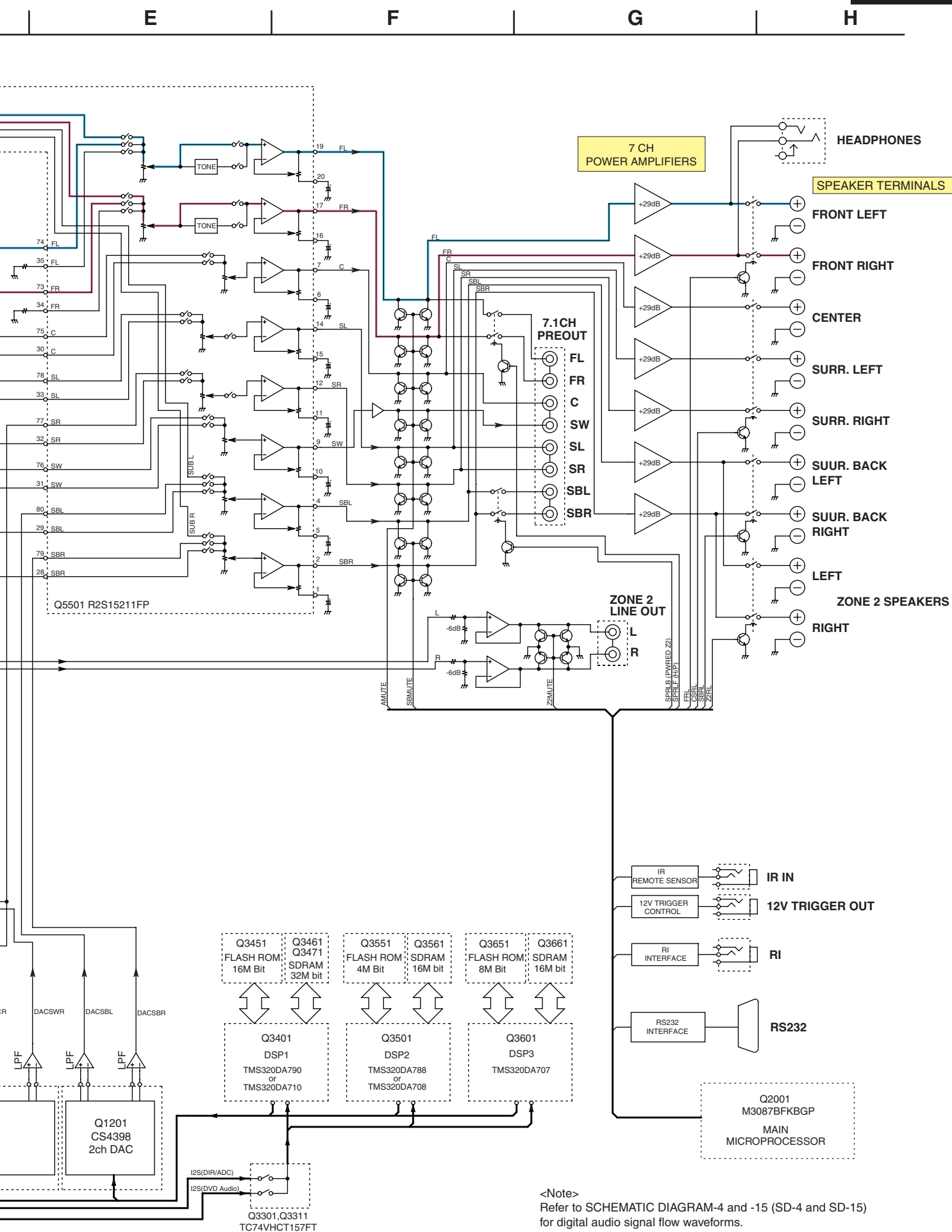
2

3

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5





A B C D

BLOCK DIAGRAMS-2
VIDEO AND HDMI SECTION

<Note>
Refer to SCHEMATIC DIAGRAM-8, -10 and -15 (SD-8, SD-10 and SD-15)
for video and HDMI signal waveforms.

VIDEO AND SP TERMINAL BOARD
NAVD-9270(SD-10)

COMPONENT VIDEO INPUT

IN 1
Y1
CB1
CR1
IN 2
Y2
CB2
CR2
IN 3
Y3
CB3
CR3

COMPOSITE VIDEO INPUT

DVD
VCR/DVR
CBL/SAT
GAME/TV
AUX INPUT
(FRONT)

S VIDEO INPUT

DVD
VCR/DVR
CBL/SAT
GAME/TV
AUX INPUT
(FRONT)

Q4002 AN-15881A-VT
Video Amp & Switch

DSP AND HDMI
NAHDM-9265(SD-10)

ADINSY
ADINCY
ADINPY
ADINPB
ADINPR

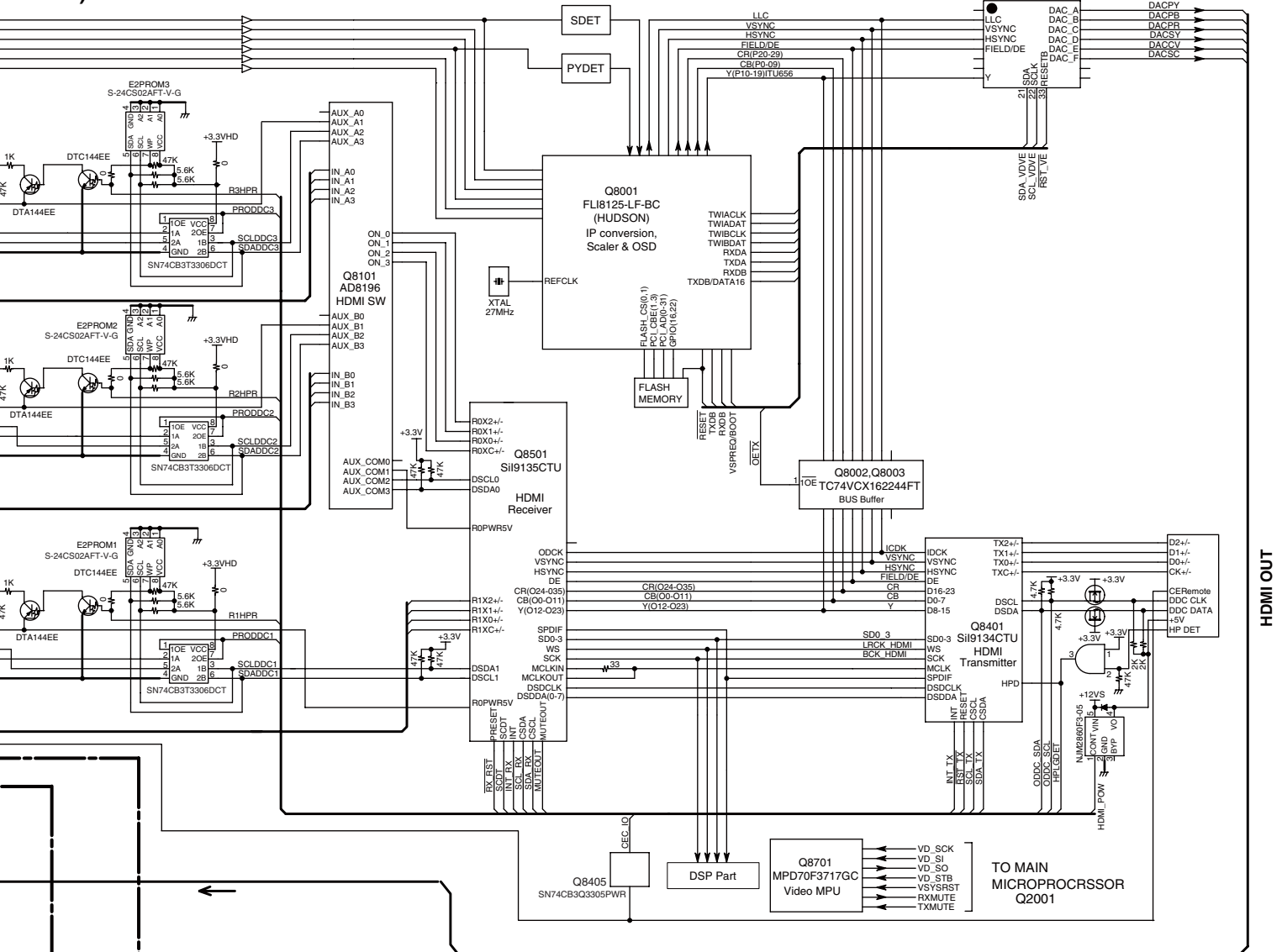
HDMI IN 3
HP DET
+5V
DDC DATA
DDC CLK
CERemote
CK+/-
D0+/-
D1+/-
D2+/-

HDMI IN 2
HP DET
+5V
DDC DATA
DDC CLK
CERemote
CK+/-
D0+/-
D1+/-
D2+/-

HDMI IN 1
HP DET
+5V
DDC DATA
DDC CLK
CERemote
CK+/-
D0+/-
D1+/-
D2+/-

DACP
DACPR
DACPB
DACP
DACPY
DACSC
DACS
DACC

Q4002 AN-15881A-VT



HDMI OUT

COMPONENT VIDEO OUTPUT

COMPOSITE VIDEO OUTPUT

MONITOR

VCR/DVR

S VIDEO OUTPUT

MONITOR

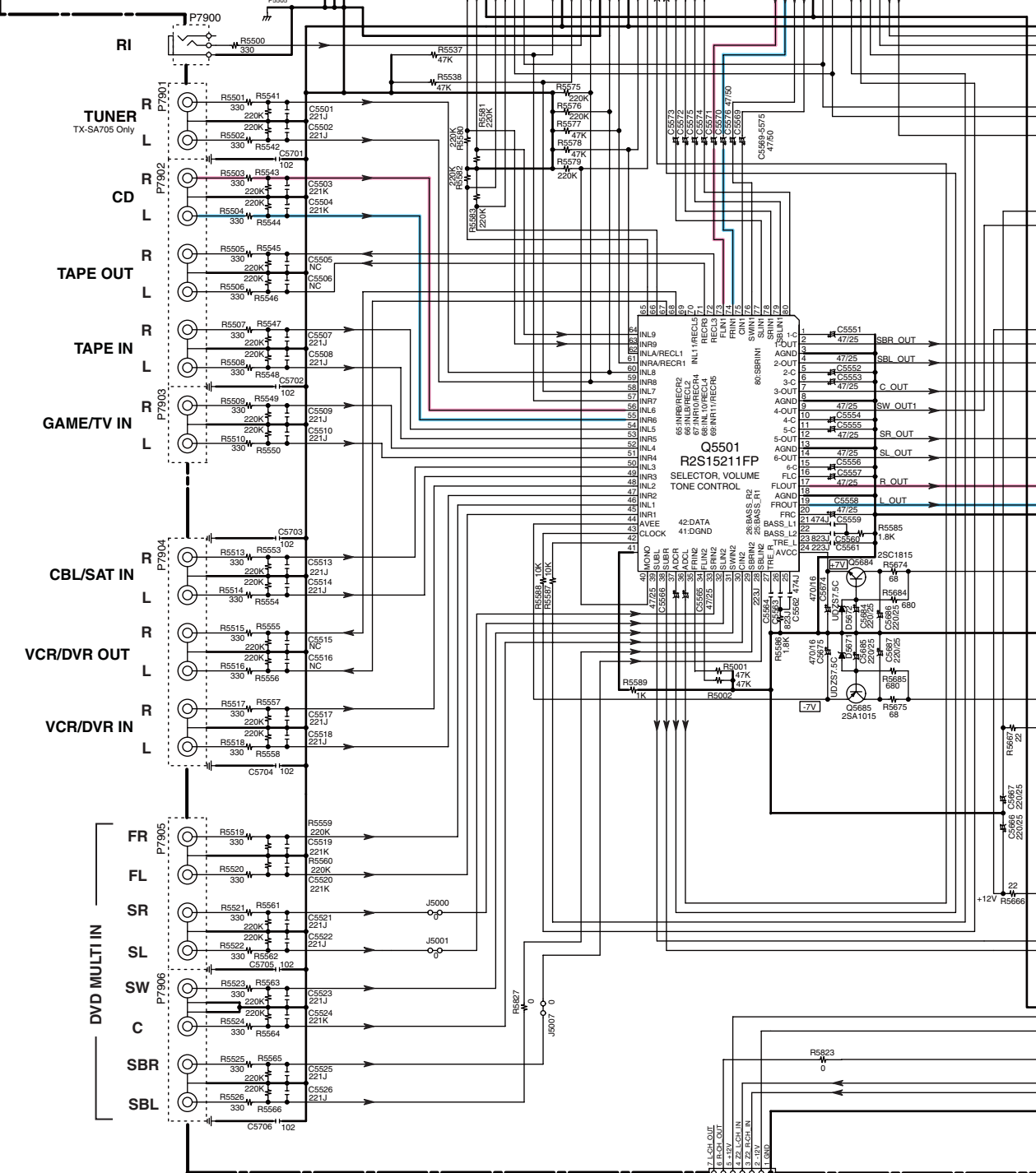
VCR/DVR

SCHEMATIC DIAGRAMS-1 (SD-1)
AUDIO SECTION

NAAF-9142(1/2)

U01

AMPLIFIER PC BOARD

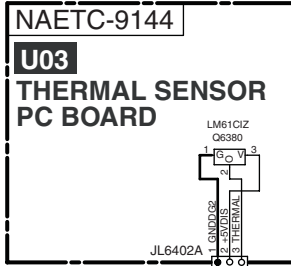


SCHEMATIC DIAGRAMS-2 (SD-2)

POWER AMP SECTION-1

NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) $\square$ 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 ($\text{---}\text{||}\text{---}$) ARE IN $\mu\text{F/MV}$.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033 μF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) $\square$ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.



TO NADG-9269
SD-5:D5

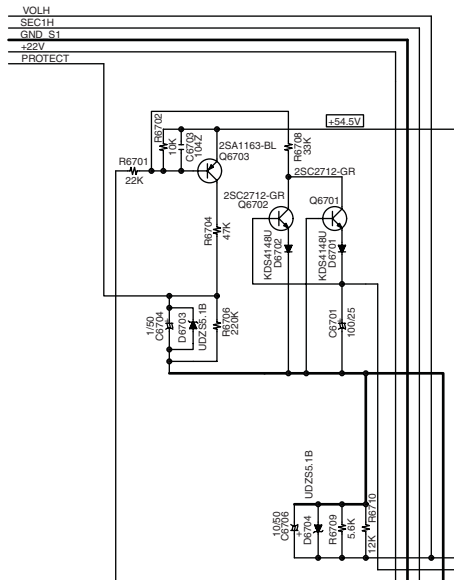
Driver Transistor List

Type	ALL	ALL (or)
C. NO		
Q6030-36	2SC5171	2SC5993
Q6040-46	2SA1930	2SA2140

Power Transistor List

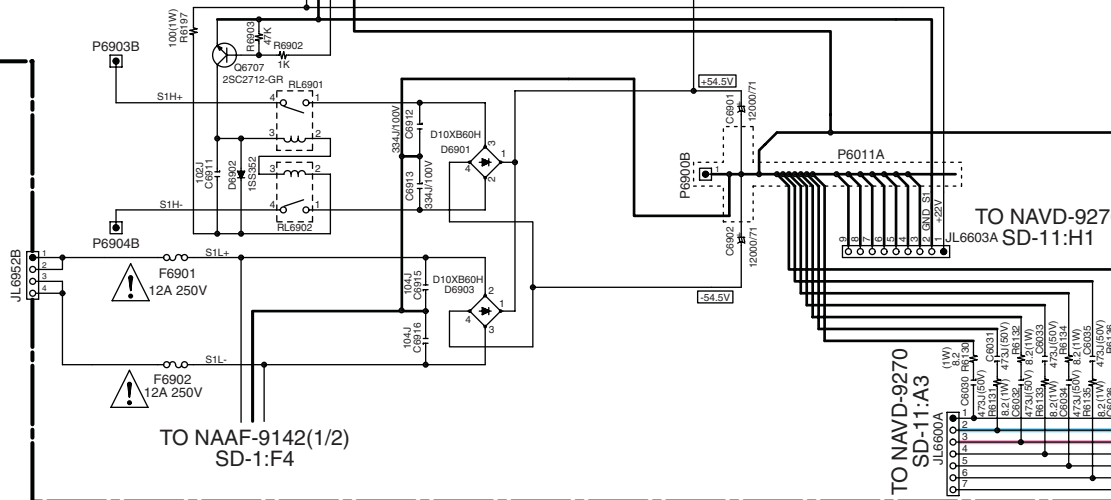
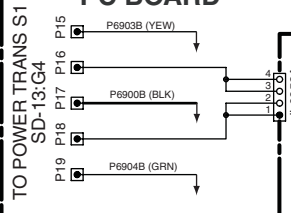
Type	ALL	ALL (or)
C. NO		
Q6050-56	2SC5242	MN150S
Q6060-66	2SA1962	MP150S

TO NAAF-9142(1/2)
SD-1:G1 & F4



NAPS-9143

U02 POWER SUPPLY PC BOARD



NAAF-9142(2/2)

U01 AMPLIFIER PC BOARD

Center ch

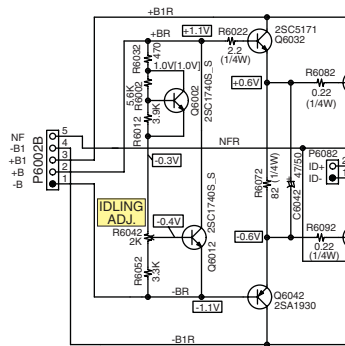
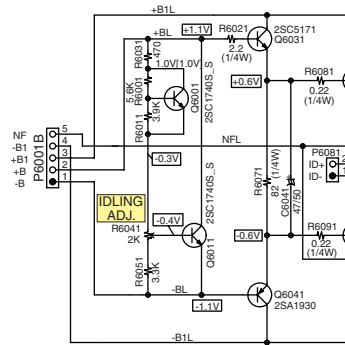
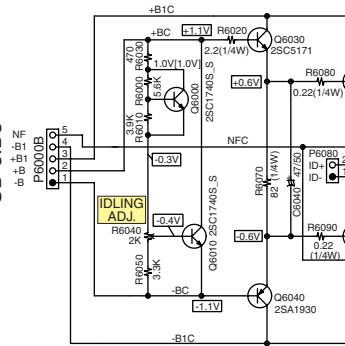
TO NAAF-8917
SD-3:D3

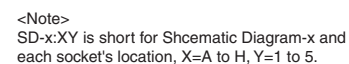
Front L ch

TO NAAF-8917
SD-3:D4

Front R ch

TO NAAF-8917
SD-3:D5





A B C D

SCHEMATIC DIAGRAMS-3 (SD-3)
POWER AMP SECTION-2

TO NAAF-9142(1/2)
SD-1:G4

NAAF-8917

U22 DRIVER AMPLIFIER
PC BOARD

P6011B COPPER BUS PLATE

P5019

Center ch

Front L ch

Front R ch

TO NAAF-9142
SD-2:D1

TO NAAF-9142
SD-2:D2

TO NAAF-9142
SD-2:D3

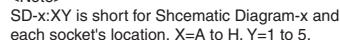
1

2

3

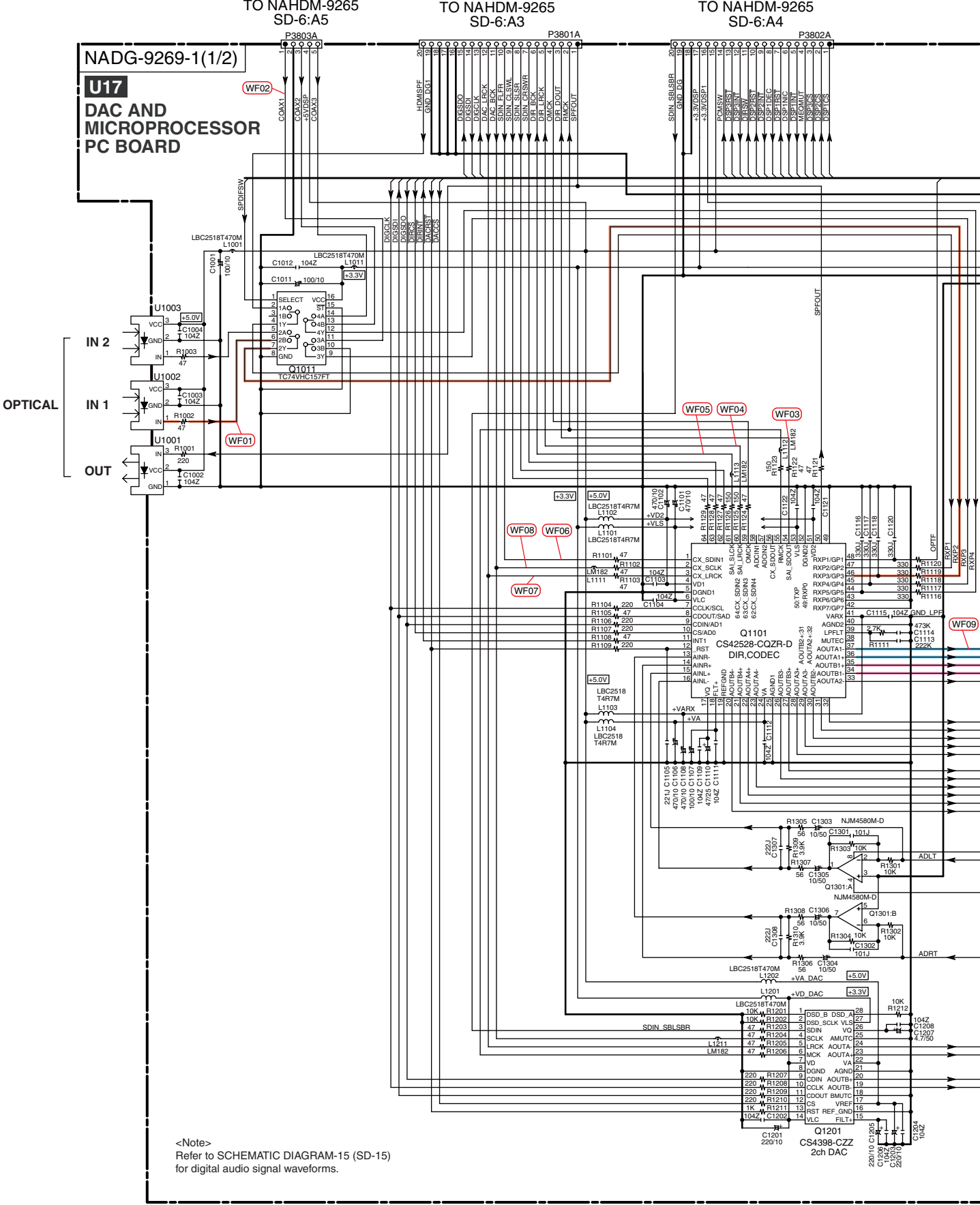
4

5



A B C D

SCHEMATIC DIAGRAMS-4 (SD-4)
DAC SECTION



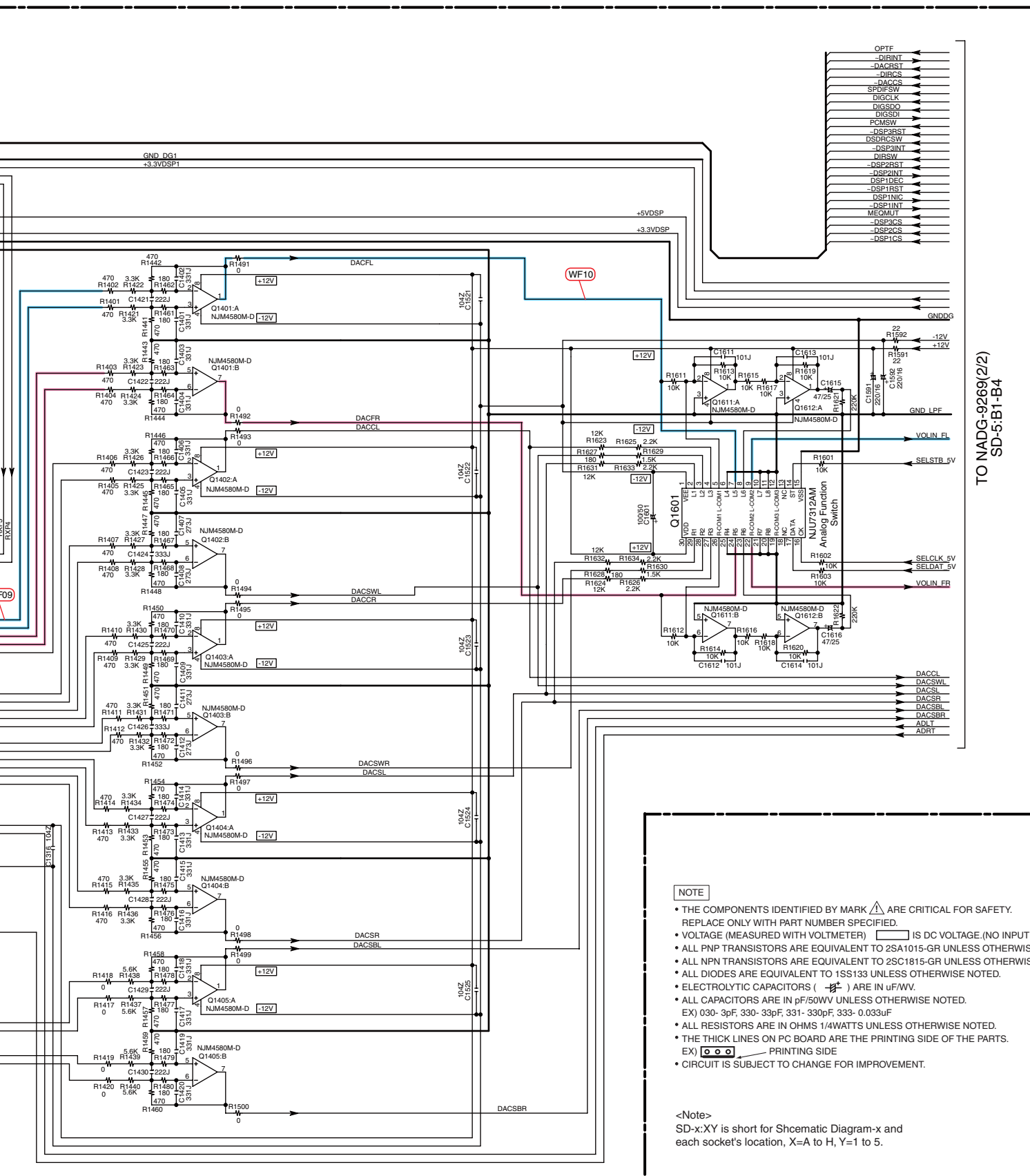
<Note>
Refer to SCHEMATIC DIAGRAM-15 (SD-15)
for digital audio signal waveforms.

E

F

G

H

TO NADG-9269(2/2)
SD-5:B1-B4

NOTE

- THE COMPONENTS IDENTIFIED BY MARK $\triangle$ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) $\square$ IS DC VOLTAGE (NO INPUT SIGNAL).
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (---) ARE IN $\mu\text{F/VV}$.
- ALL CAPACITORS ARE IN pF/50VV 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) $\square$ 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.

U24 DSP AND HDMI PC BOARD

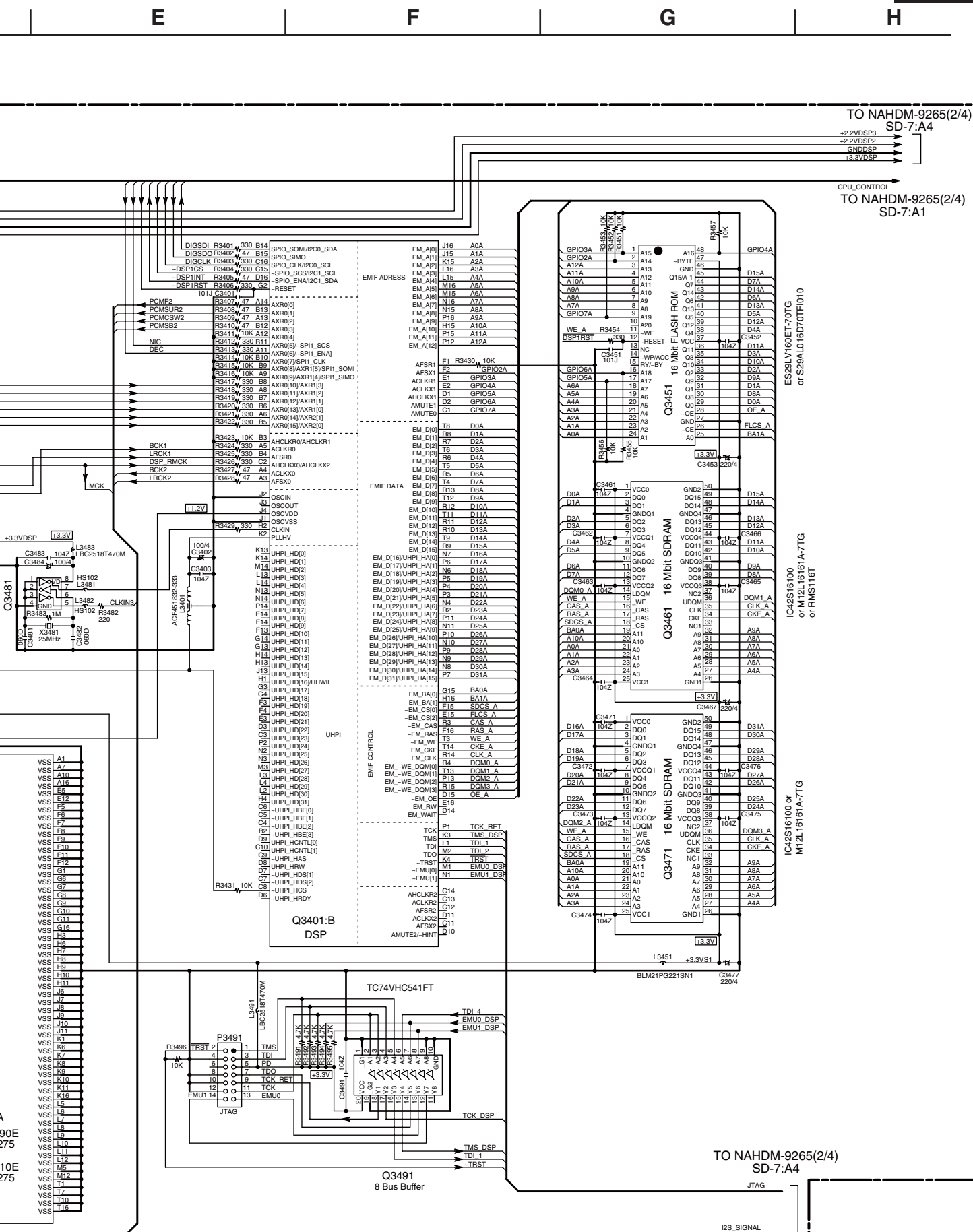
AUDIO DATA

TO NADG-6269
SD-4:B1

IN 3
IN 2

Q3401:A
MS320D79
001BZDH27
or
MS320D71
001BZDH27
DSP

DSP



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

SCHEMATIC DIAGRAMS-7 (SD-7)

DSP SECTION-2

NAHDM-9265(2/4) U24 DSP AND HDMI PC BOARD

TO NAHDM-9265(1/4)
SD-6:H1

CPU CONTROL

TO NAHDM-9265(1/4)
SD-6:H1,G5

I2S SIGNAL

+2.5VDSP23

+3.3VDSP

GND DSP

JTAG

BD7820

Q3772

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3571

Q3501
TMS320D788E001BRFP266
or
TMS320D708E001BRFP266
DSP

Q3551 16 Mbit SDRAM

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

Q3561

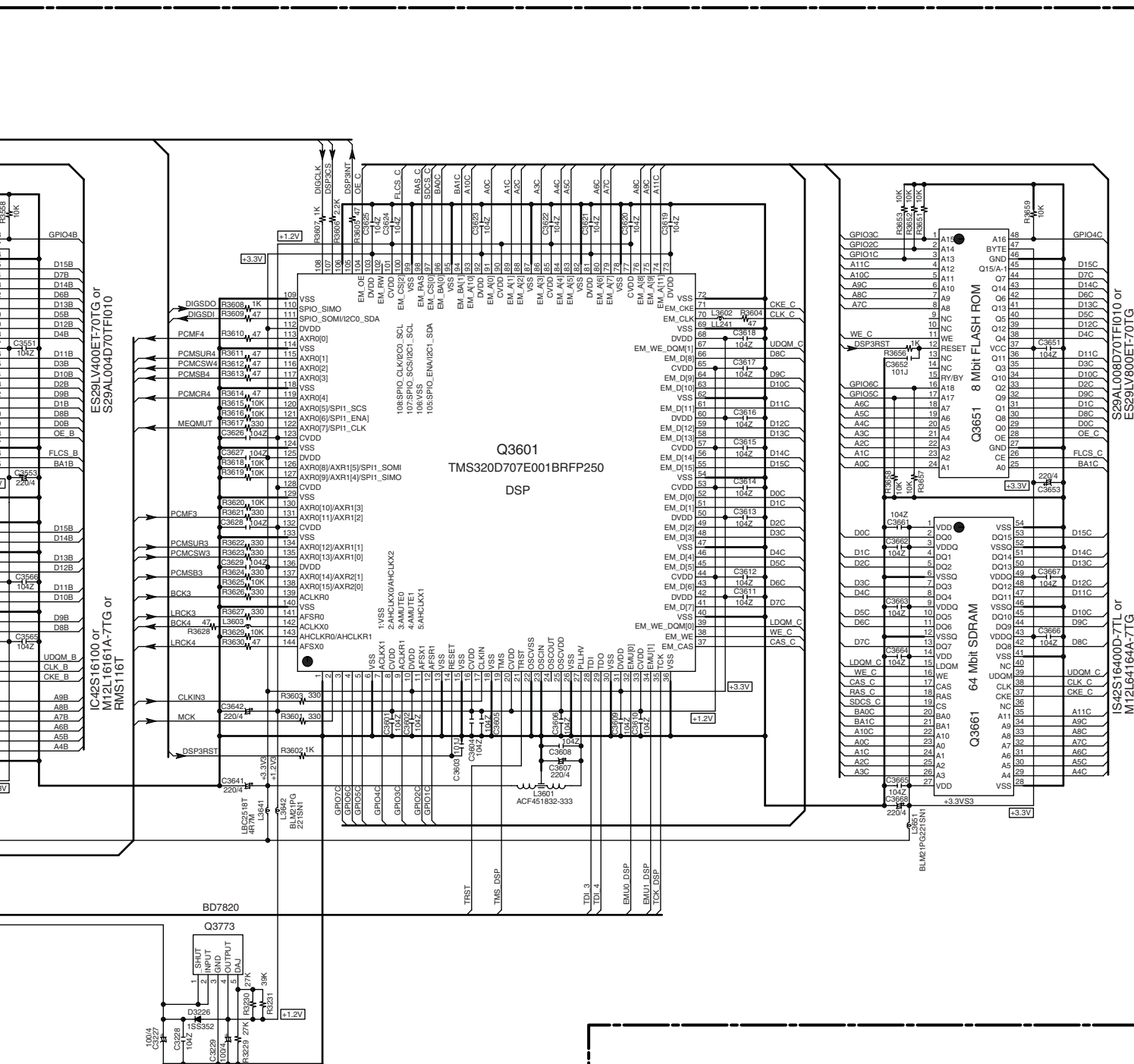
Q3561

E

F

G

H



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).
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS () ARE IN μ F/VV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033 μ F
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
EX) - PRINTING SIDE
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

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

A

B

C

D

SCHEMATIC DIAGRAMS-8 (SD-8)

HDMI SECTION-1

NAHDM-9265(3/4)

U24

DSP AND HDMI
PC BOARD

1

2

3

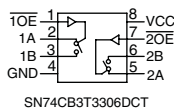
4

5

HDMI IN 3

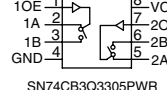
HDMI IN 2

HDMI IN 1



<Note>
Refer to SCHEMATIC DIAGRAM-15 (SD-15)
for HDMI signal waveforms.

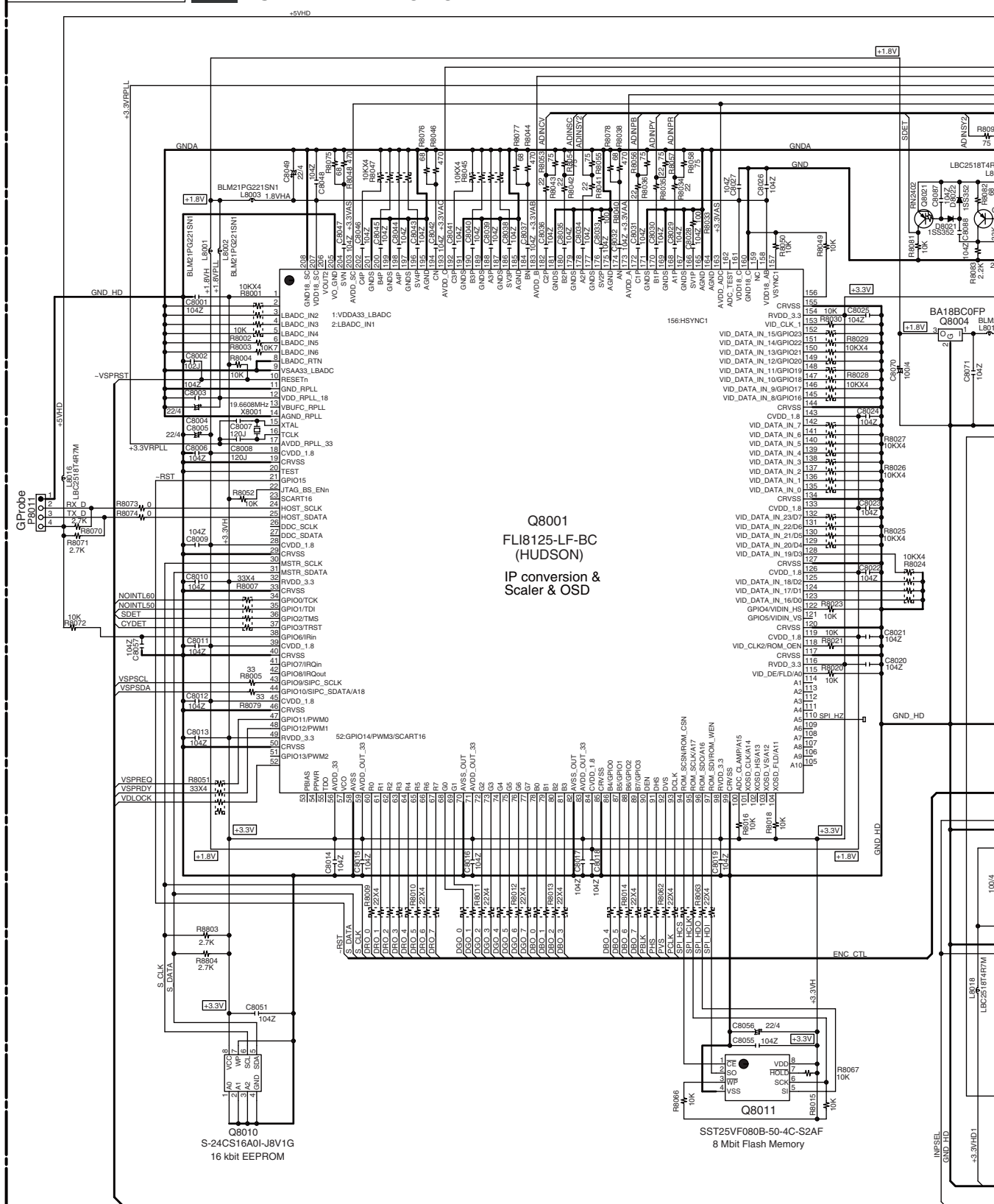
Q8101
AD8196
HDMI SwitchQ8501
SI19135CTU
HDMI Receiver

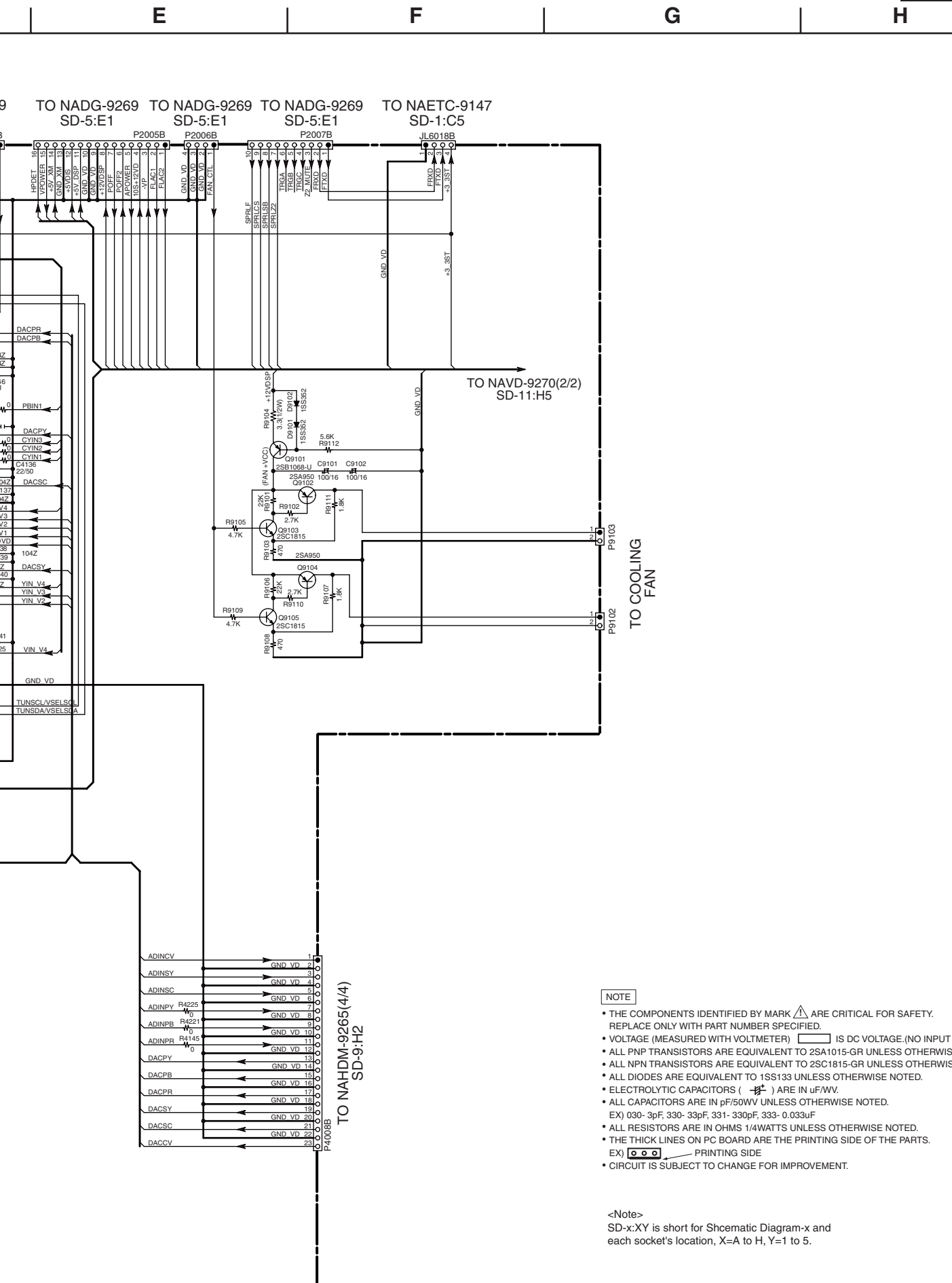
P8702
UNBATED

Q8401 SII9134 / Q8501 SII9135 Pin Connection Chart

Pin No	Signal Name	Signal Name	Pin No
05601 SWH35	05601 SWH35	05601 SWH35	05601 SWH35
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

U24 DSP AND HDMI PC BOARD





A B C D

SCHEMATIC DIAGRAMS-11 (SD-11)
SPEAKER TREMINAL SECTION

NAVD-9270(2/2) U18 VIDEO AND SP TERMINAL PC BOARD

1

2

3

4

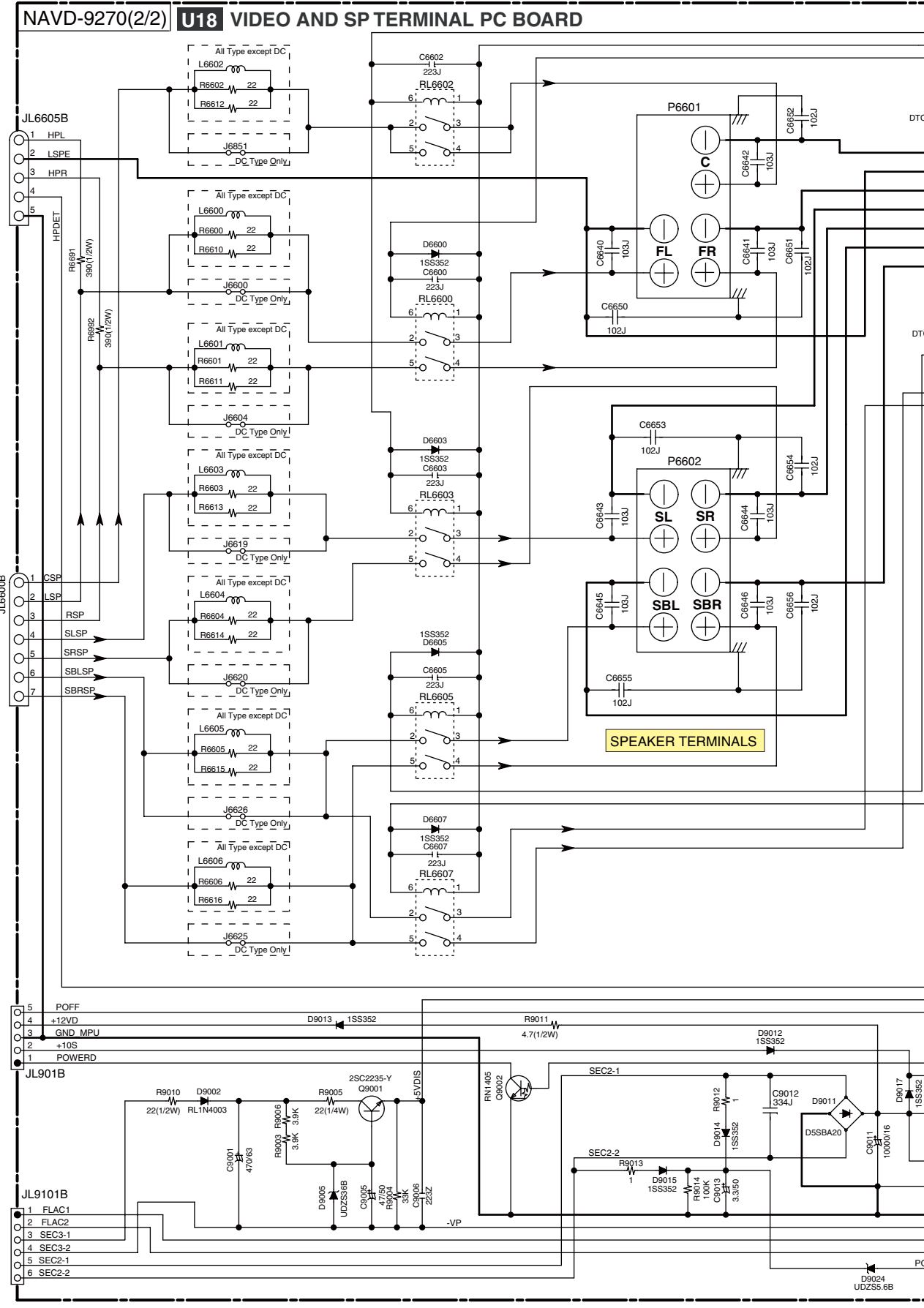
5

TO NAEIC-9153
SD-12:C1

TO NAAF-9142
SD-2:D5

TO NAPS-9150
SD-13:F1

TO NAPS-9151
SD-13:G2



E

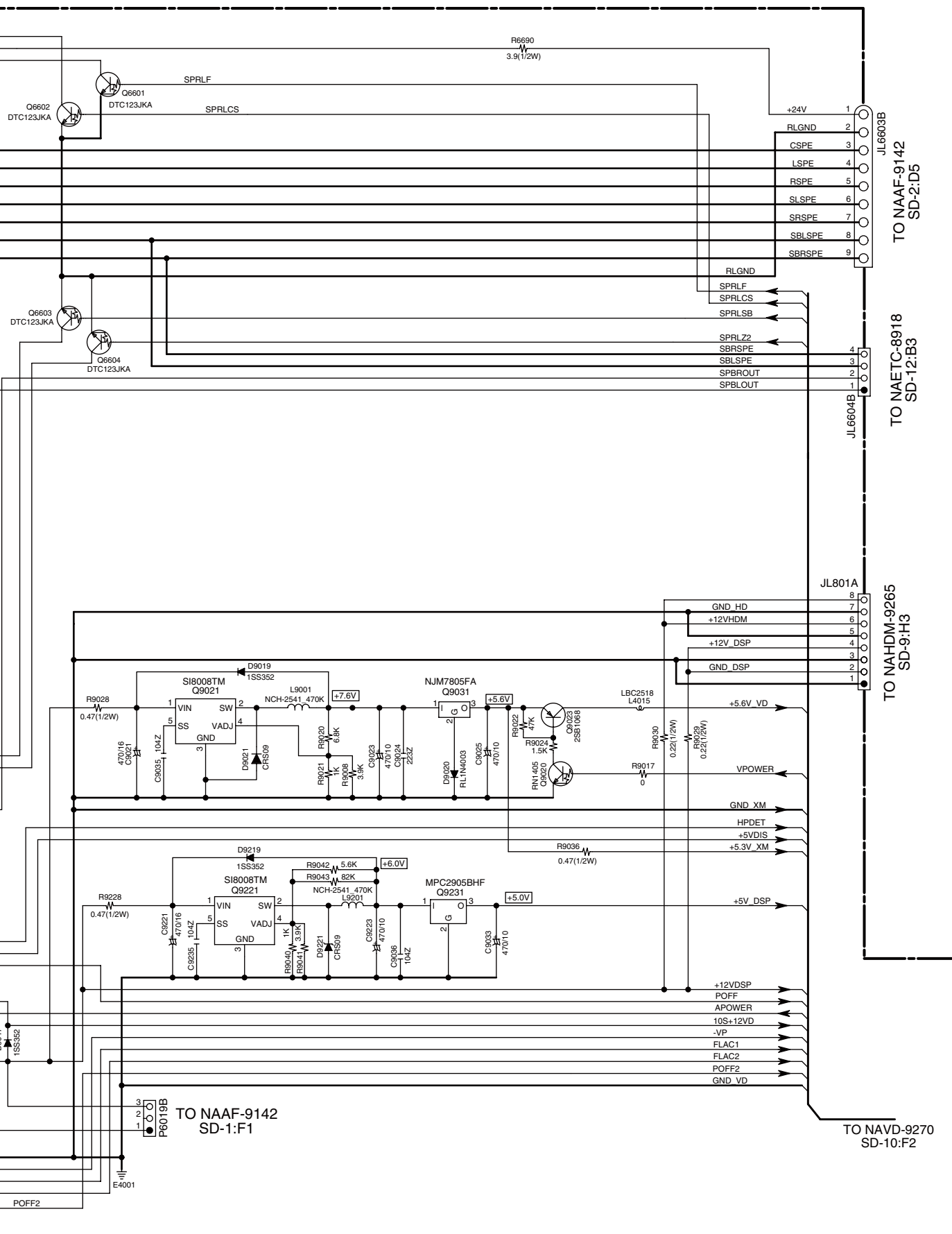
F

G

H

<Note>

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



SCHEMATIC DIAGRAMS-13 (SD-13)

POWER SUPPLY SECTION

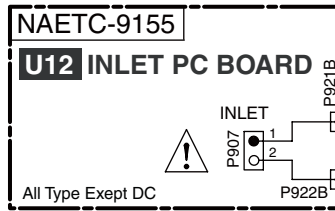
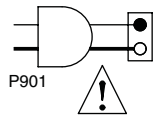
NOTE

- 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/MV.
- 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.

<Note>

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

Type	AC Volt/Freq.
DC, DT	120V / 60HZ
P, A	220-240V / 50HZ
O, K, Q, T	220-240V / 50,60HZ
SA705	

INLET AC CORD
(All Type Exept DC)

INLET

P907

P921B

P922B

P921A

P922A

P901A

P901

AC CORD

DC Type Only

CAUTION

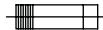


FOR CONTINUED PROTECTION
AGAINST FIRE HAZARD, REPLACE
ONLY WITH FUSE OF SAME TYPE
AND RATING INDICATED.

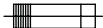
ATTENTION



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

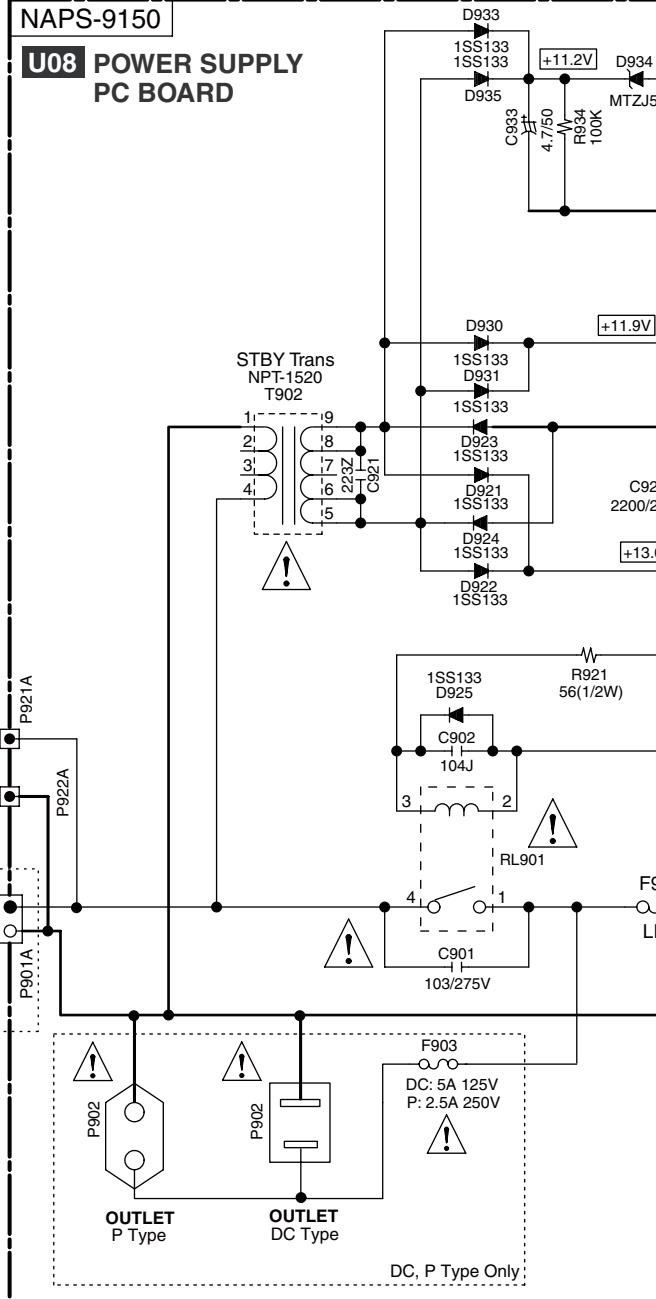


THIS SYMBOL LOCATED NEAR THE FUSE INDICATES
THAT THE FUSE USED IS SLOW OPERATING TYPE
FOR CONTINUED PROTECTION AGAINST FIRE FUSE
HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE
RATING REFER TO THE MAKING ADJACENT TO THE SYMBOL.



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 SYMBOLE EST APPOSE.

NAPS-9150

U08 POWER SUPPLY
PC BOARD

STBY Trans T902

Type	Rating
DC, DT	NPT-1520JQ
P, A	NPT-1520GQ
O, K, Q, T	NPT-1520GQ
SA705	

Fuse F901

Type	Rating
DC, DT	10A 125V
P, A	5A 250V
O, K, Q, T	5A 250V
SA705	

Type	Rating
DC,DT	NPT-1563D
P, A	NPT-1563M
O,K,Q,T TX-SA	NPT-1563M

A B C D

SCHEMATIC DIAGRAMS-14 (SD-14)
XM SECTION

1

NARF-9267

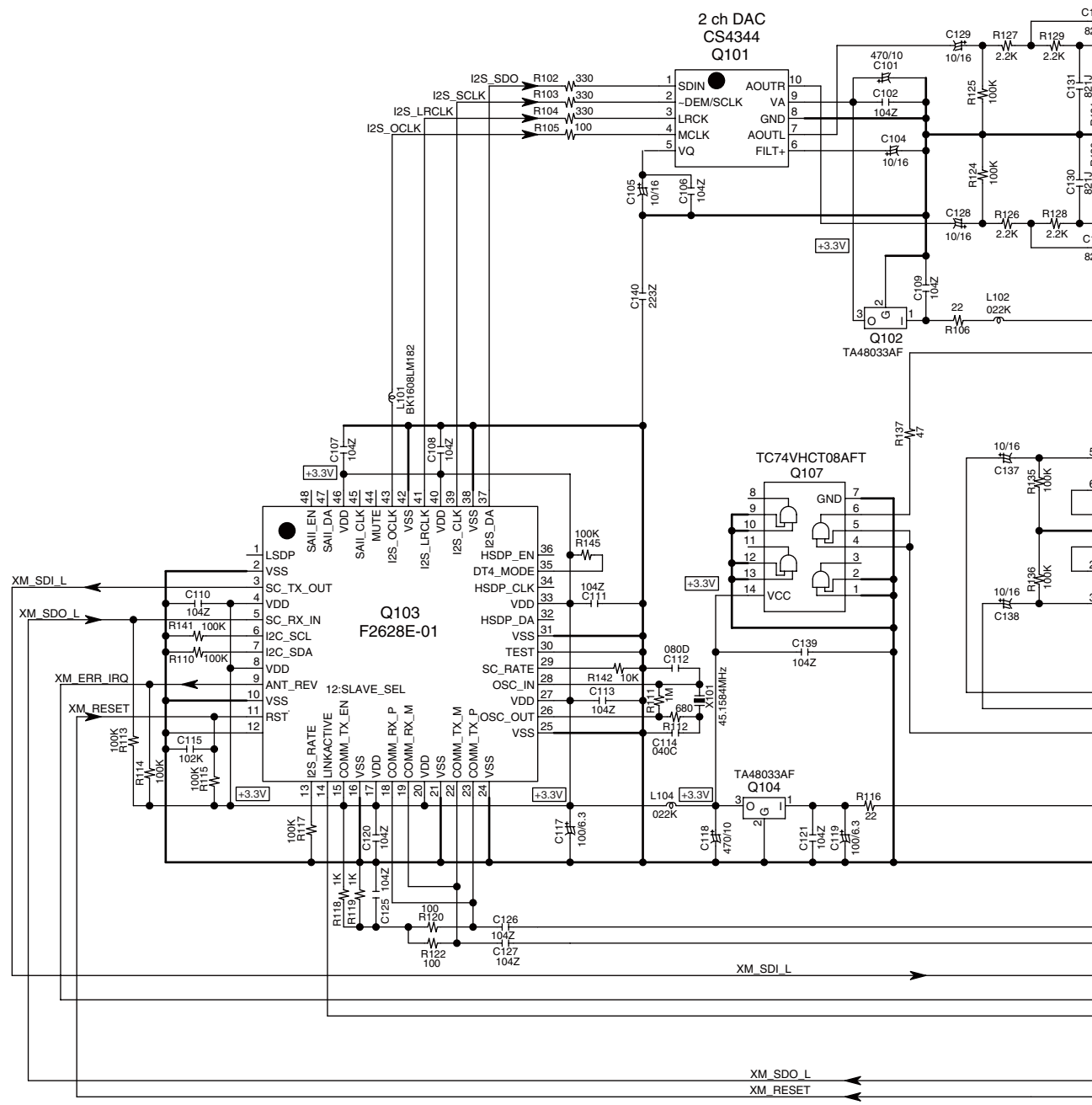
U20 XM PC BOARD
DC Type Only

2

3

4

5

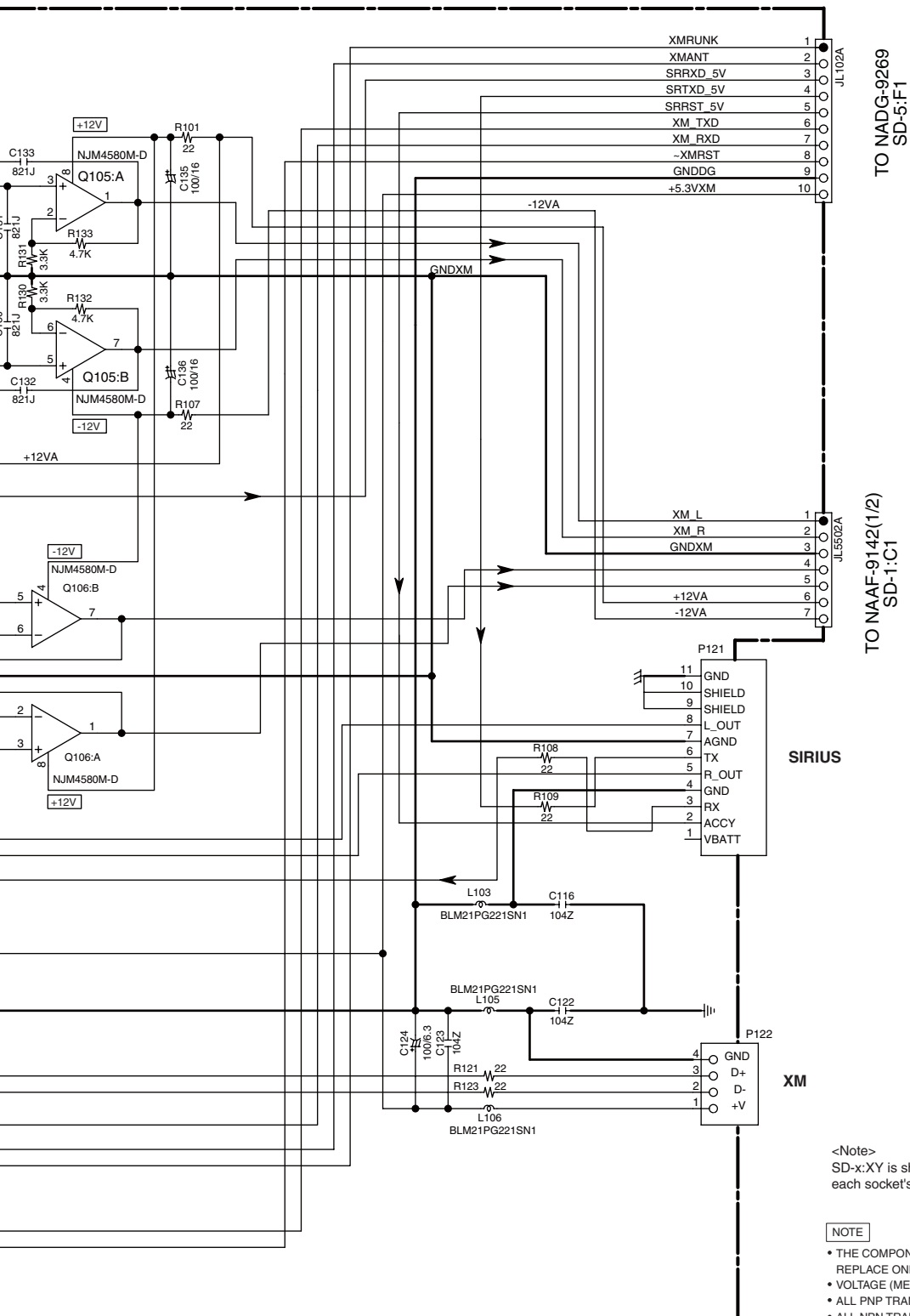


E

F

G

H



<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 VOLT METER)  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.

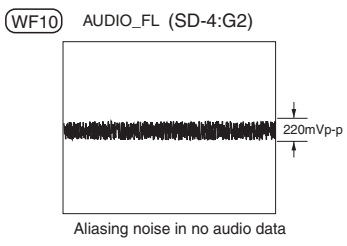
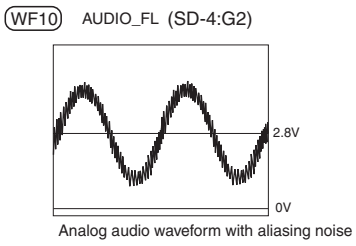
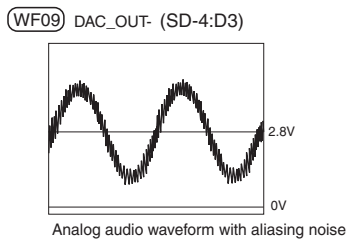
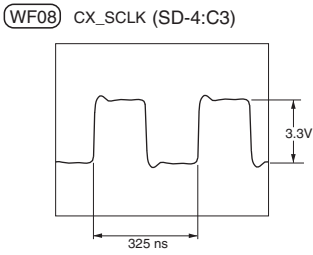
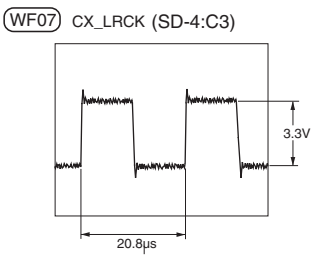
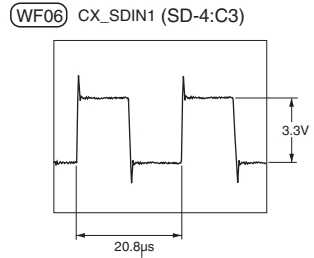
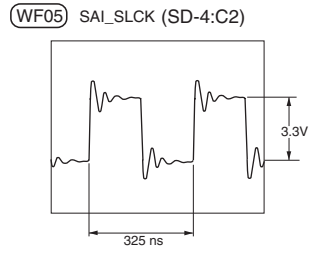
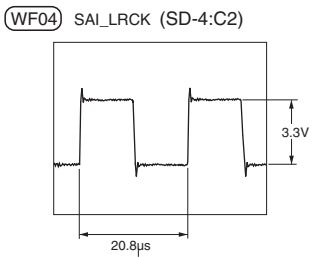
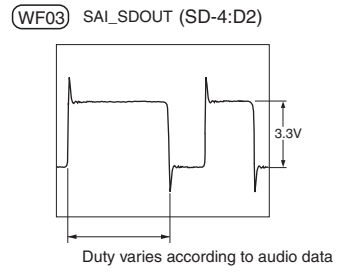
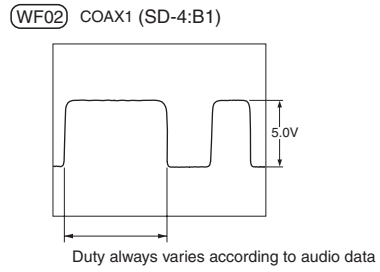
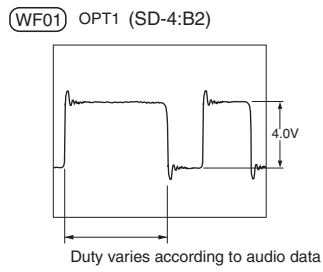
SCHEMATIC DIAGRAMS-15(SD-15)
WAVEFORM SECTION

Digital Audio Waveform Part

NOTE:
1. (WF01) is short for (Waveform01)
2. Refer to SD-4(SCHEMATIC DIAGRAM-4)
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



E

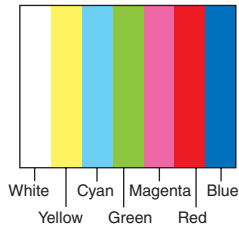
F

G

H

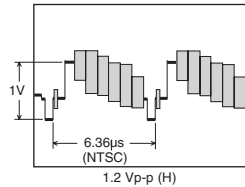
Video Waveform Part

Video source color and pattern



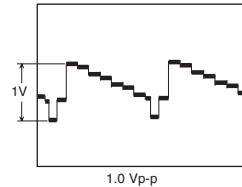
Composite waveform

(WF21) SD-10:B5



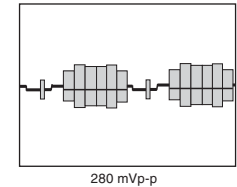
S-Video Y waveform

(WF22) SD-10:B5



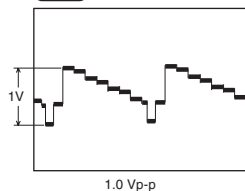
S-Video C waveform

(WF23) SD-10:B5



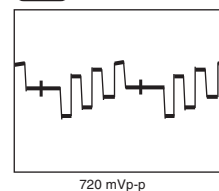
Component Y waveform

(WF24) SD-10:B3



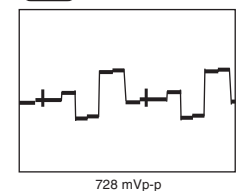
Component PB waveform

(WF25) SD-10:B3



Component PR waveform

(WF26) SD-10:B2, B3



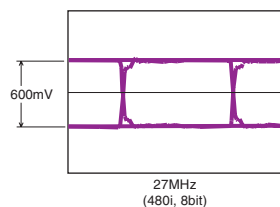
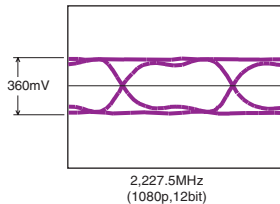
NOTE:

- (WF21) is short for (Waveform21)
- Refer to SD-10(SCHEMATIC DIAGRAM-10) for the location of each waveform on circuit.
- SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.
- In the case that video outputs are not connected to video devices, video signal output levels are doubled.

HDMI Waveform Part

HDMI D0,D1,D2 waveform

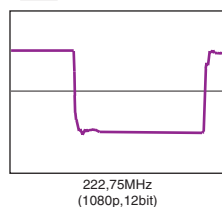
(WF41) SD-8:B5, G4



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-8:B5, G4

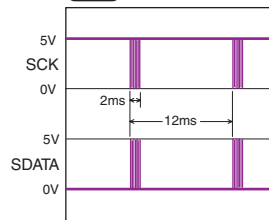


CK waveform, frequency and level differ according to video resolution, aspect and profile. D0,D1,D2 are just CK x10.

FL Driver IC Control Waveform Part

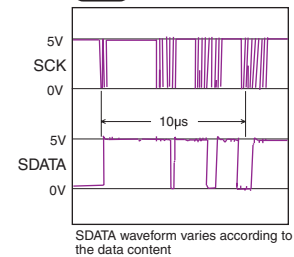
SCK/SDATA waveform

(WF61) SD-12:E3



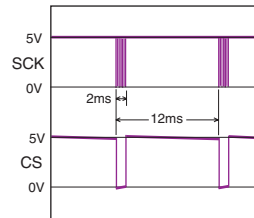
SCK/SDATA waveform

(WF61) SD-12:E3



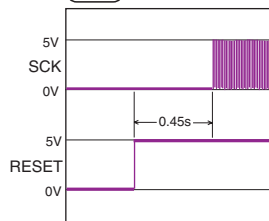
SCK/CS waveform

(WF62) SD-12:E3



SCK/RESET waveform

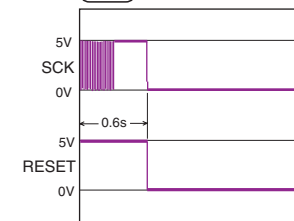
(WF63) SD-12:E3



When power on

SCK/RESET waveform

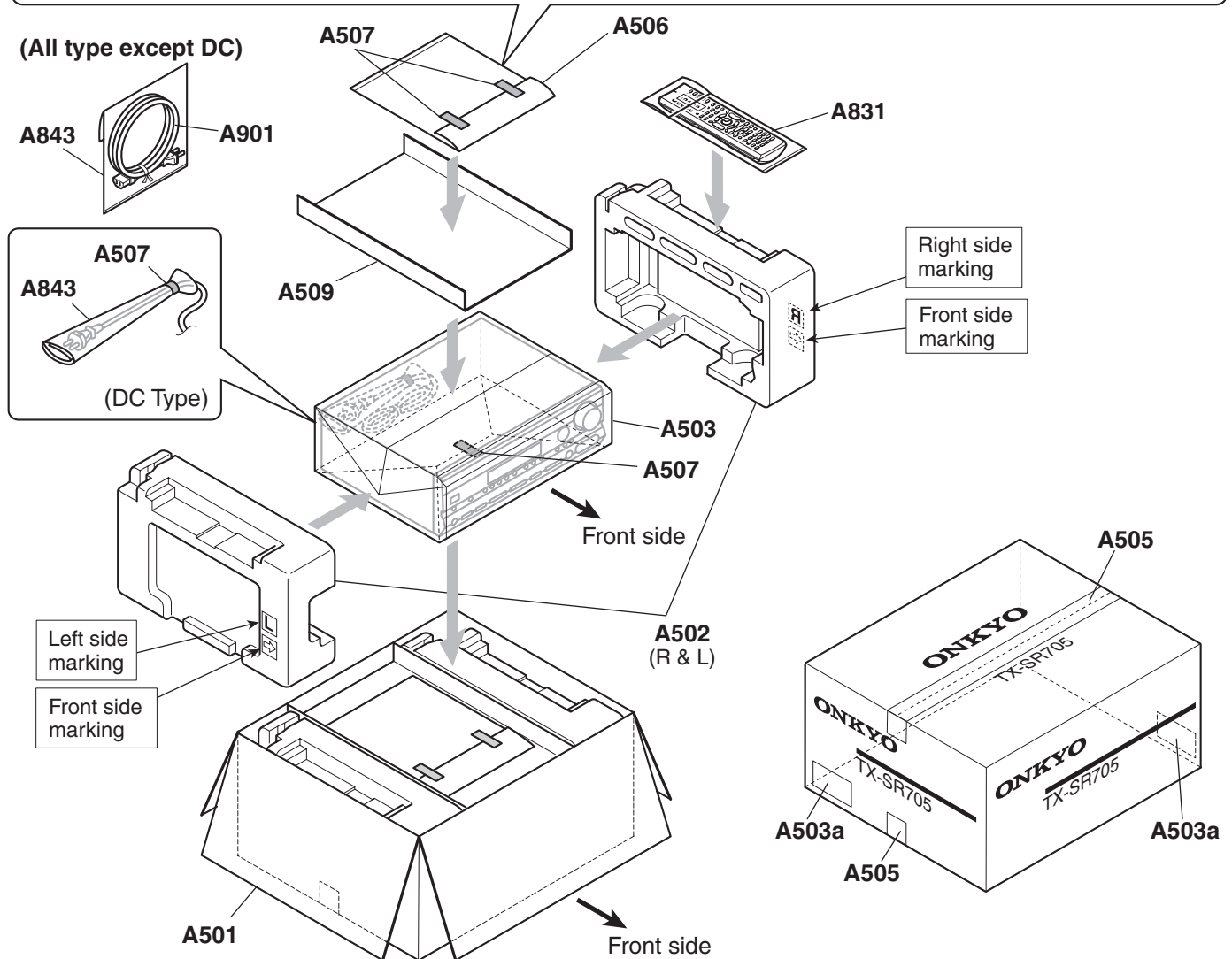
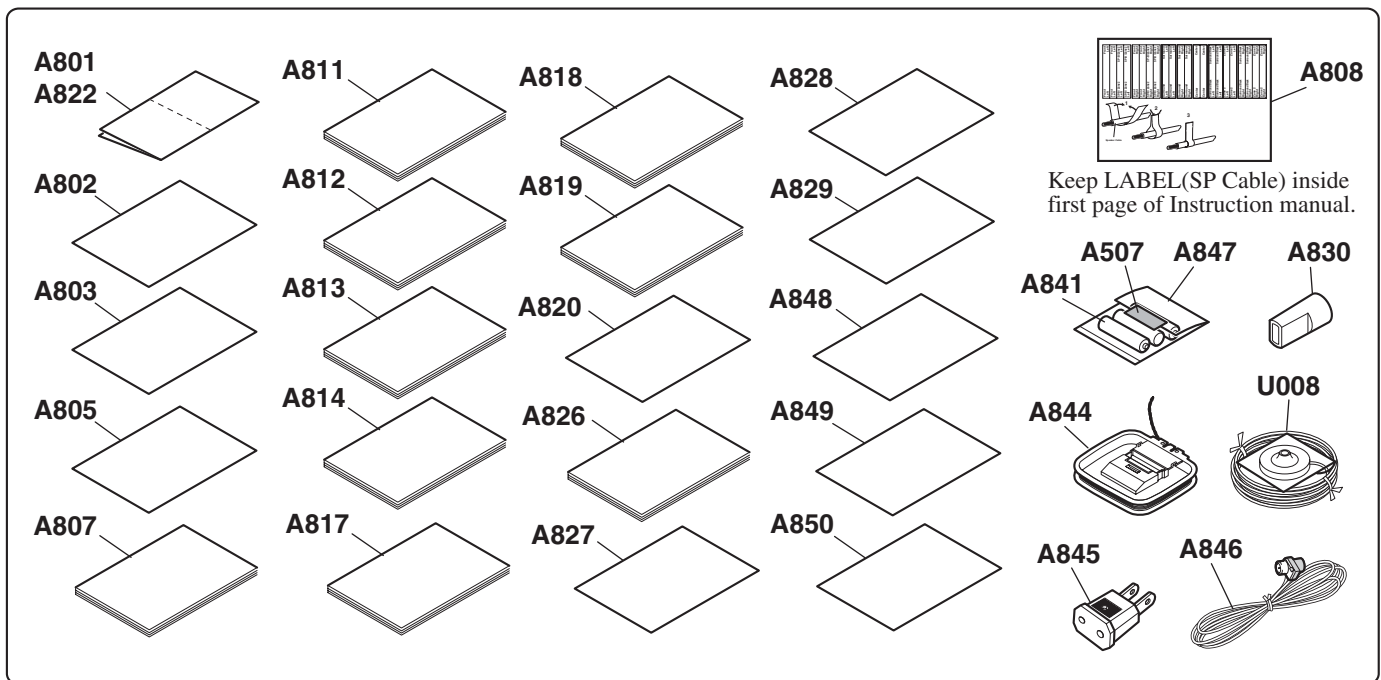
(WF63) SD-12:E3



When power off

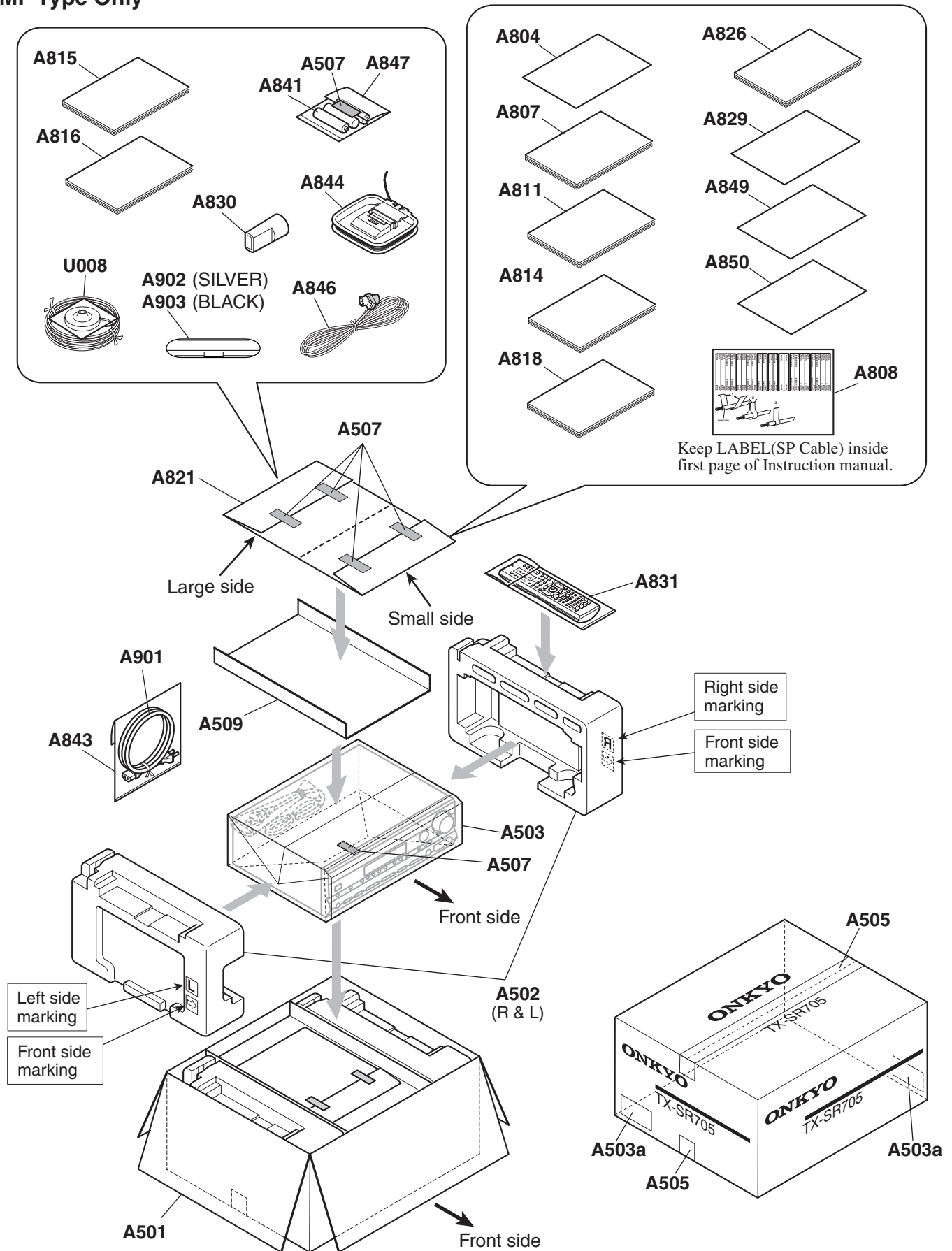
PACKING PROCEDURE-1

All Type Except MP



PACKING PROCEDURE-2

MP Type Only

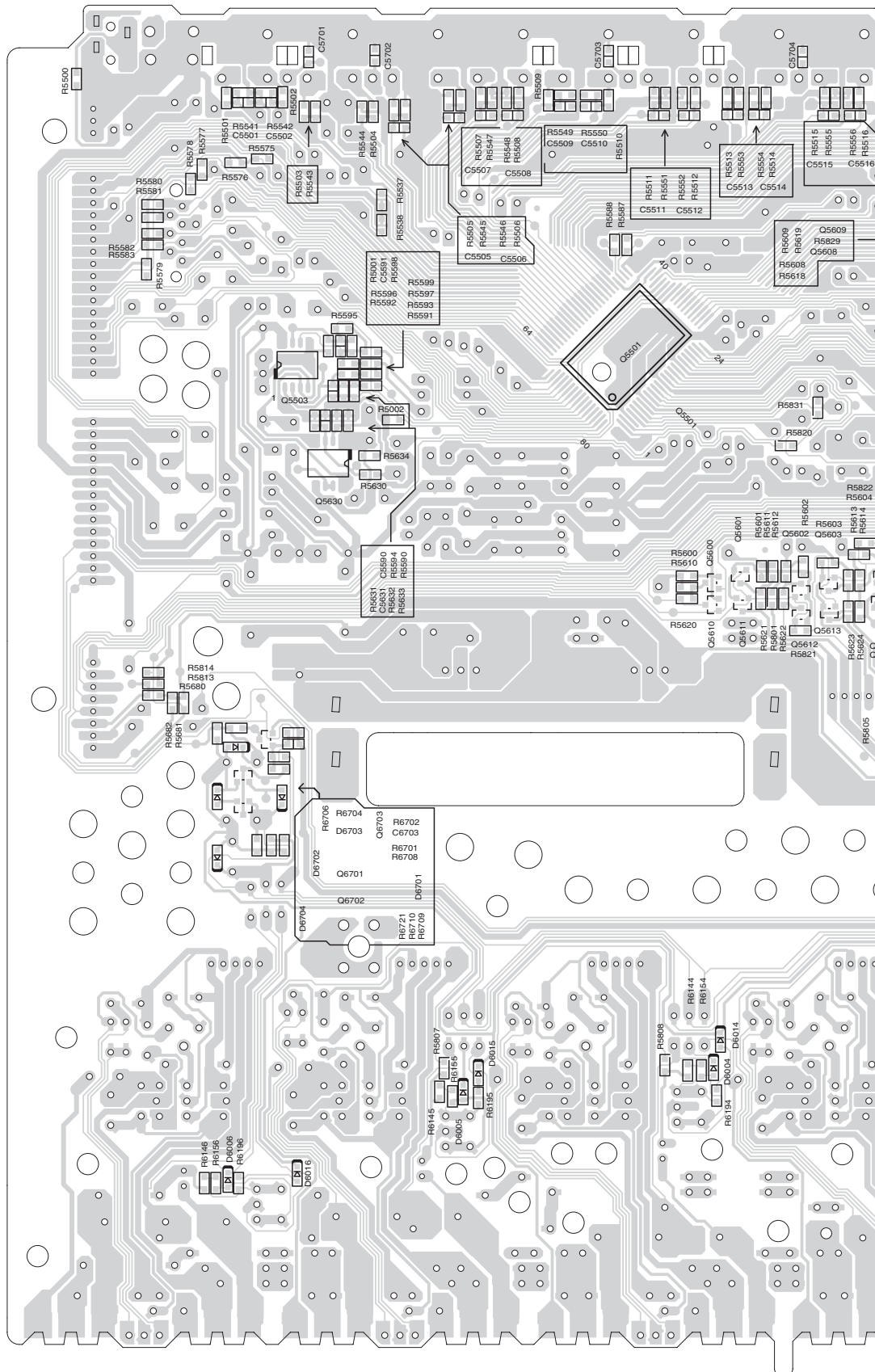


D

PRINTED CIRCUIT BOARD VIEWS-2

U01 AMPLIFIER PC BOARD (NAAF-9142)

Soldering side

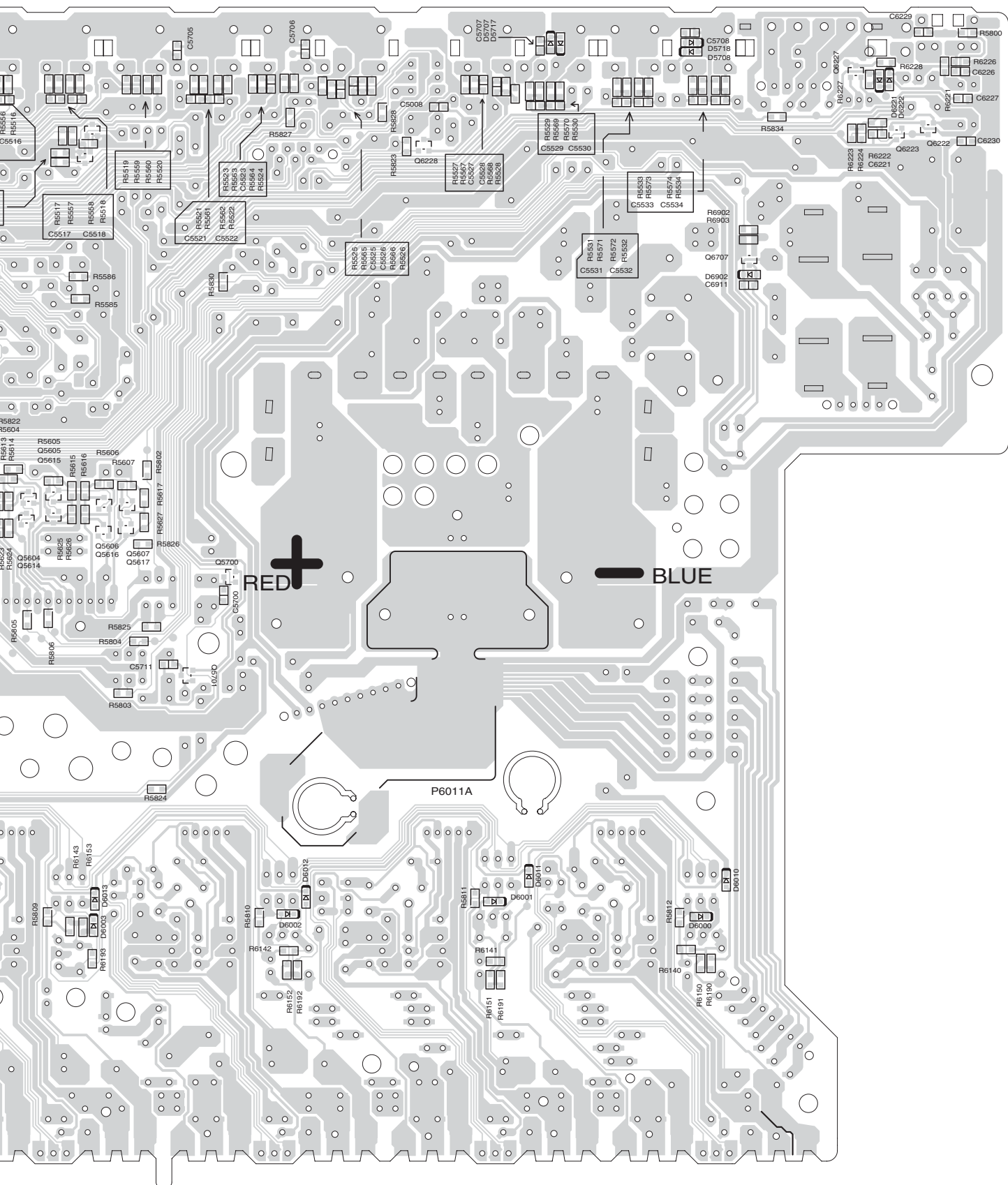


E

F

G

H



A

B

C

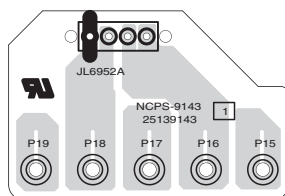
D

PRINTED CIRCUIT BOARD VIEWS-3

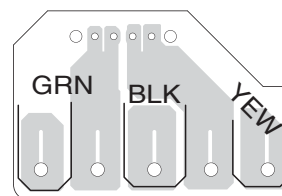
1

U02 POWER SUPPLY PC BOARD (NAPS-9143)

Component side



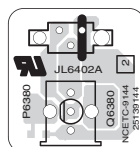
Soldering side



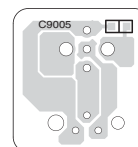
2

U03 THERMAL SENSOR PC BOARD (NAETC-9144)

Component side



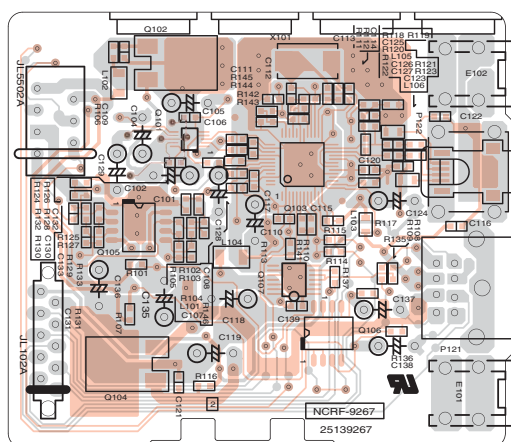
Soldering side



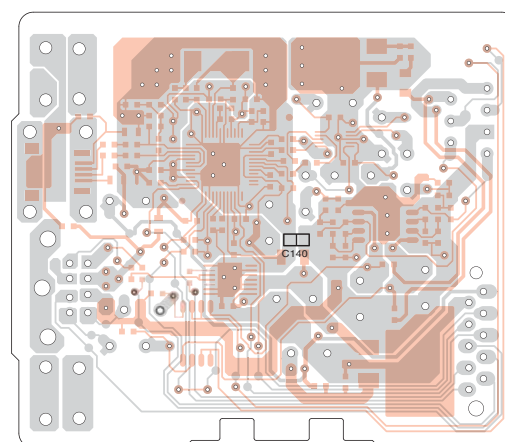
3

U20 XM PC BOARD (NARF-9267)

Component side



Soldering side



4

5

A

B

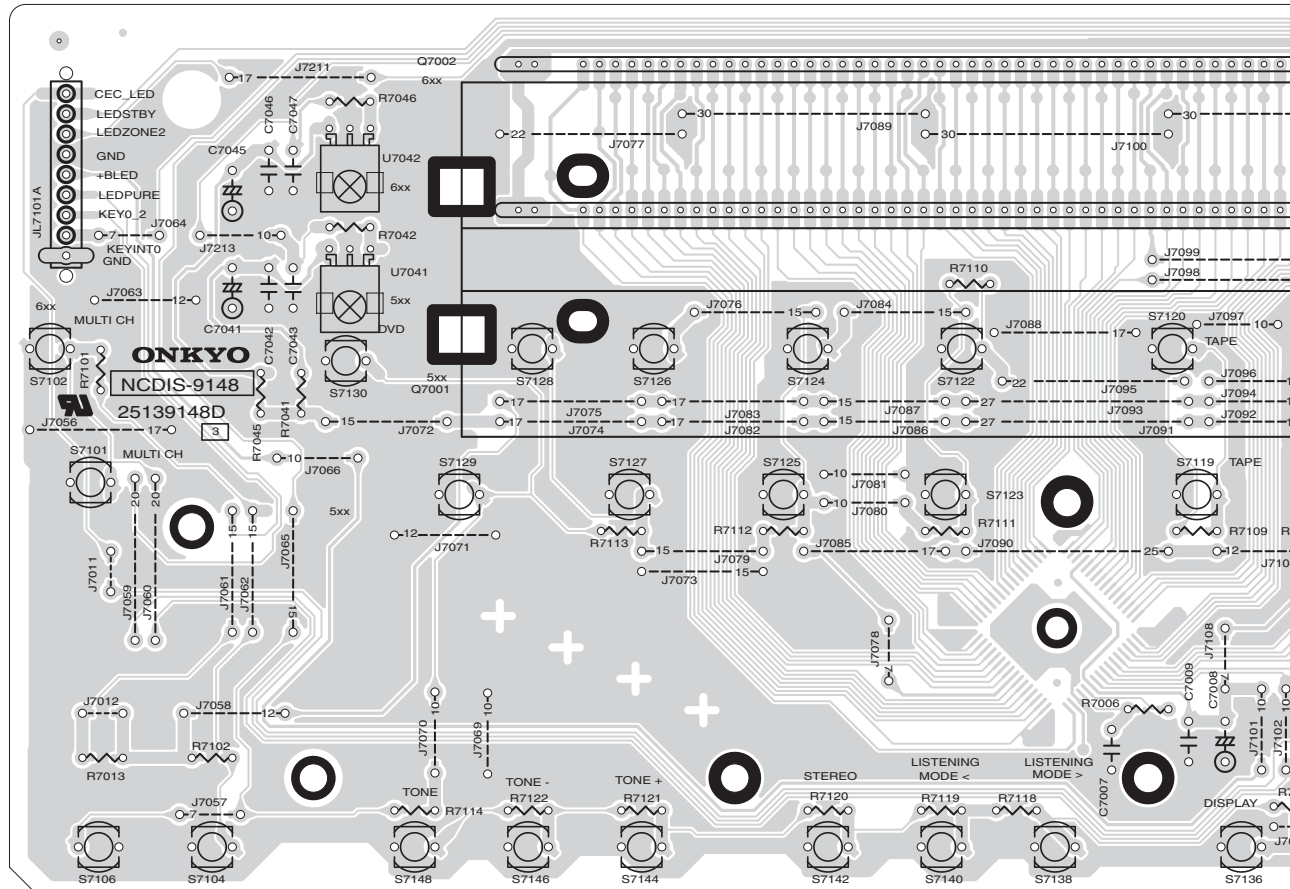
C

D

PRINTED CIRCUIT BOARD VIEWS-4

U06 DISPLAY PC BOARD (NADIS-9148)

Component side



A

B

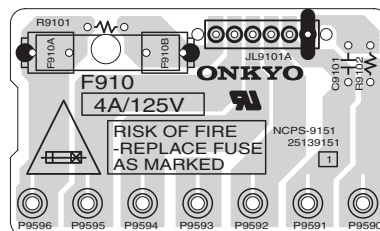
C

D

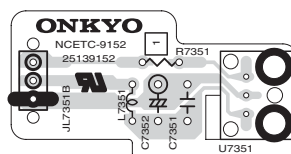
PRINTED CIRCUIT BOARD VIEWS-6

U09 POWER SUPPLY PC BOARD (NAPS-9151)

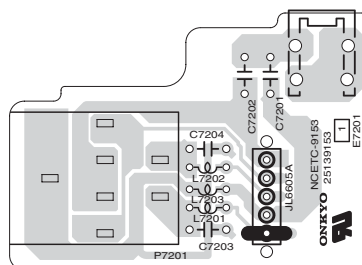
Component side

**U10** FRONT OPT PC BOARD (NAETC-9152)

Component side

**U11** HEADPHONE JACK PC BOARD (NAETC-9153)

Component side

**U15** HOLDER PC BOARD (NAETC-9160)

Component side



A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-8

U17 DAC AND MICROPROCESSOR PC BOARD (NADG-9269)

Side-B

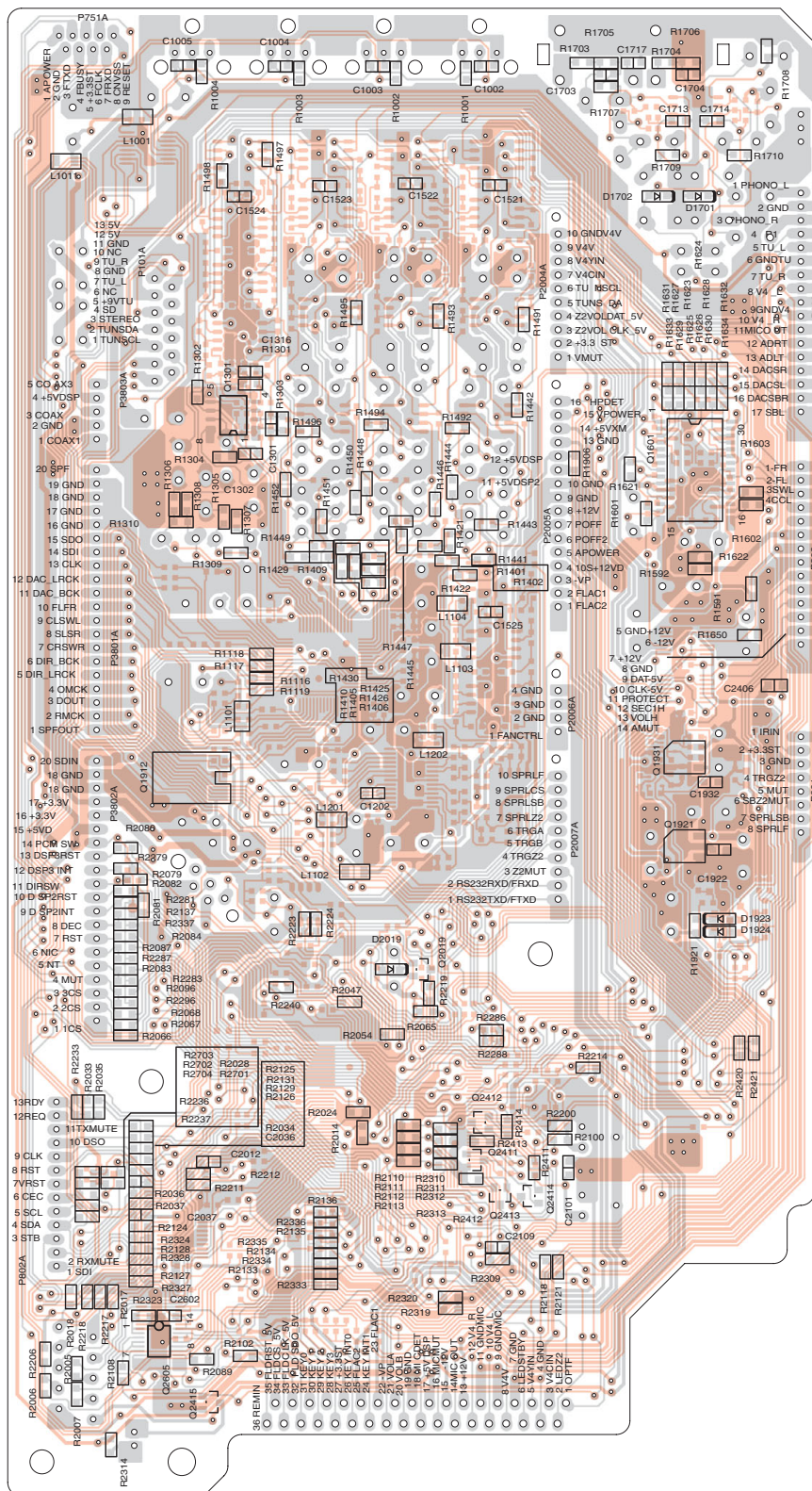
1

2

3

4

5

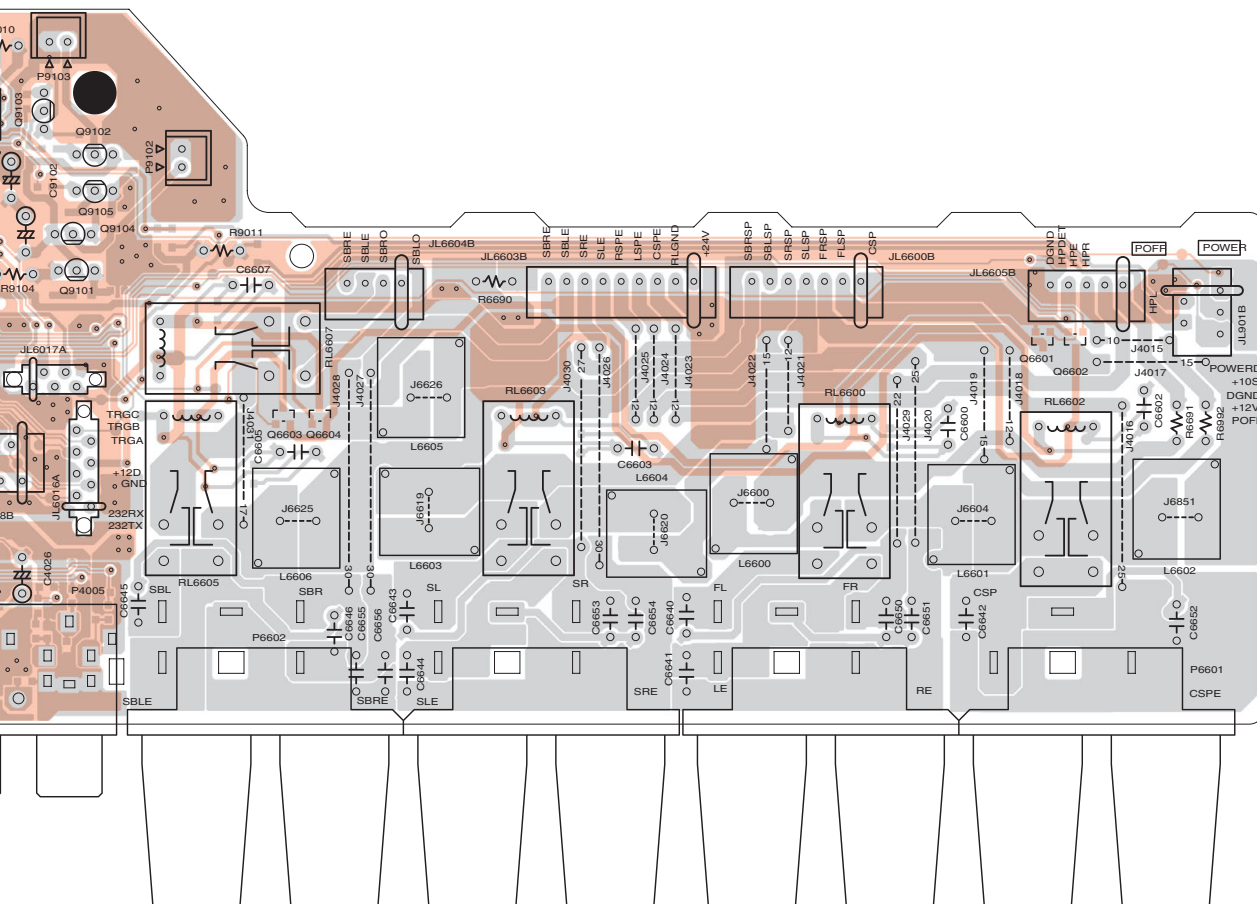


E

F

G

H



Side-B

5

A

B

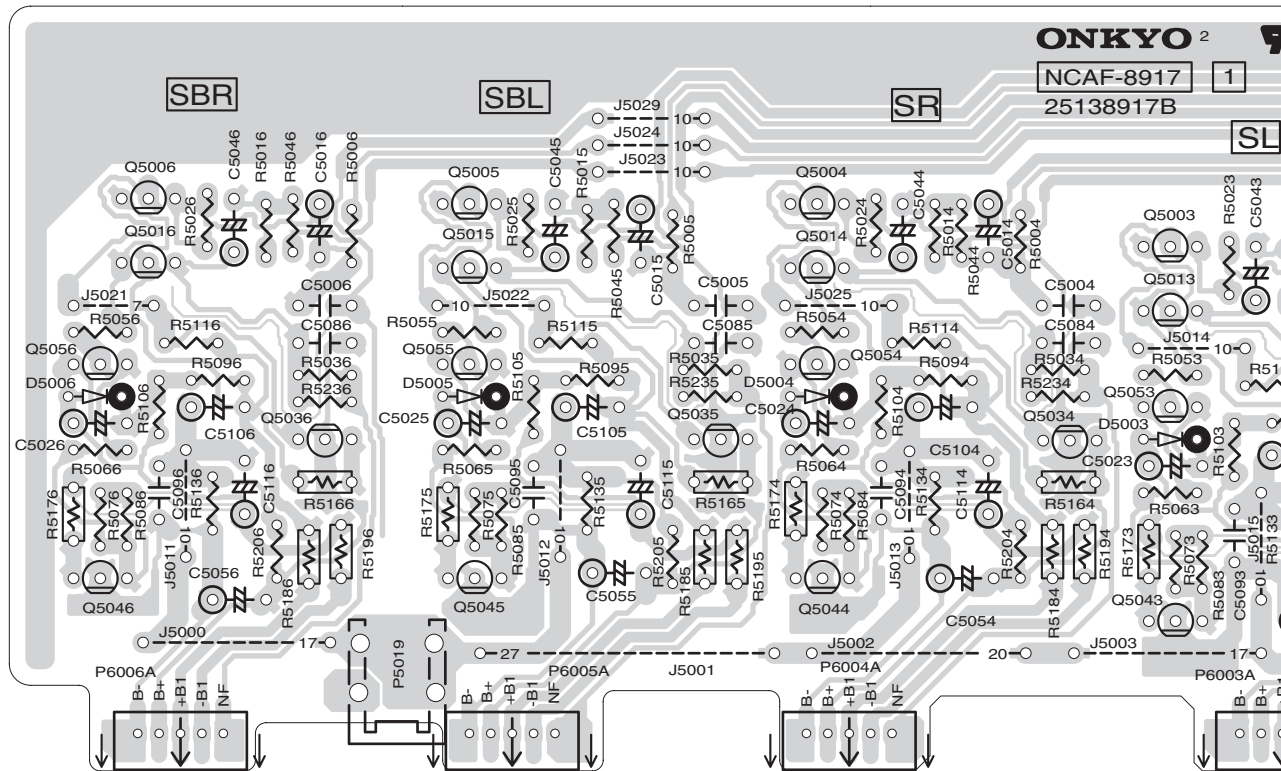
C

D

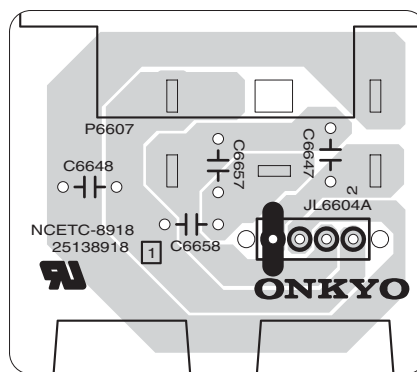
PRINTED CIRCUIT BOARD VIEWS-11

U22 DRIVER AMPLIFIER PC BOARD (NAAF-8917)

Component side

**U23 SPEAKER TERMINAL PC BOARD (NAETC-8918)**

Component side



A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-12

U24 DSP AND HDMI PC BOARD (NAHDM-9265)

Side-A

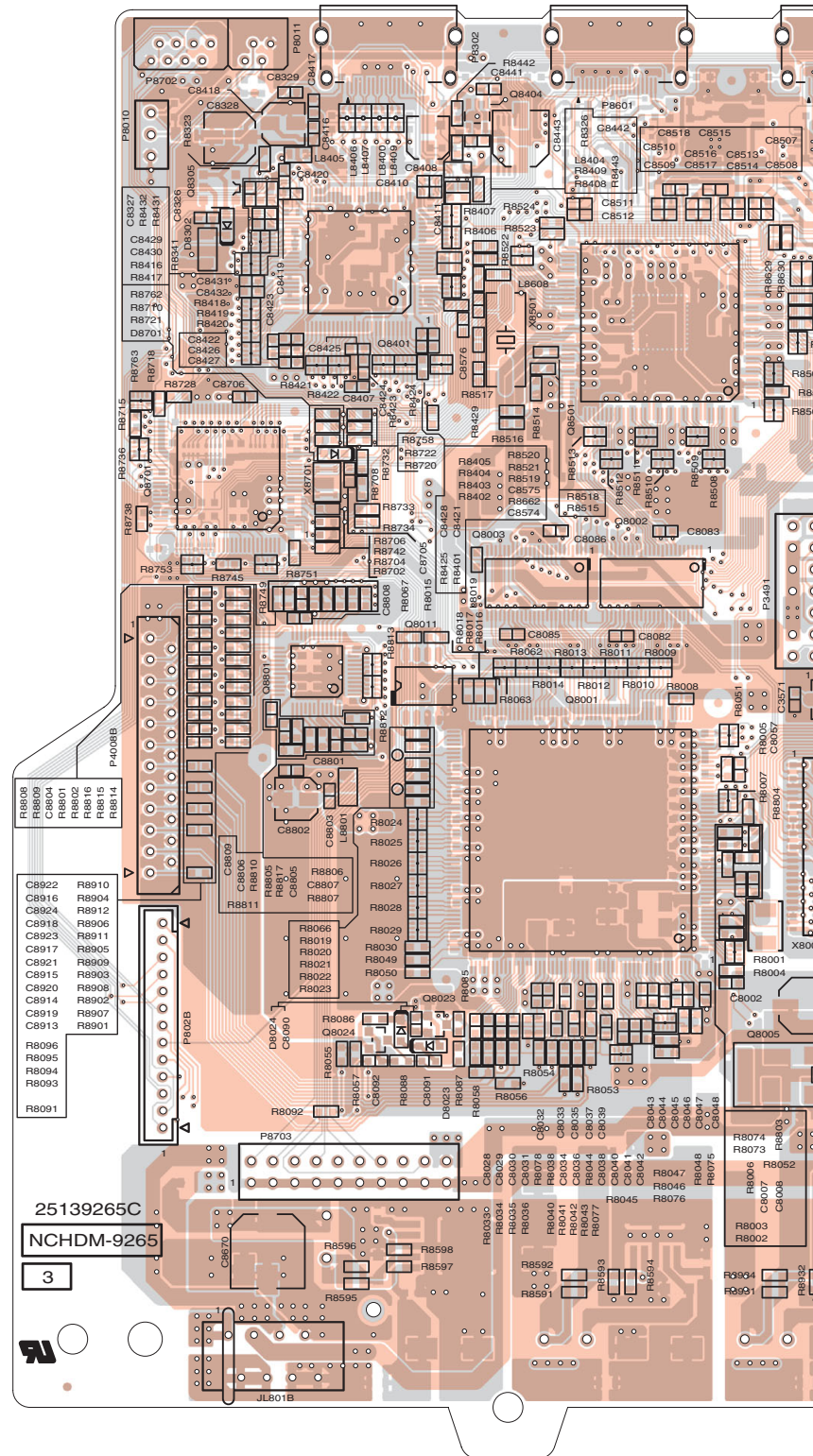
1

2

3

4

5



A

B

C

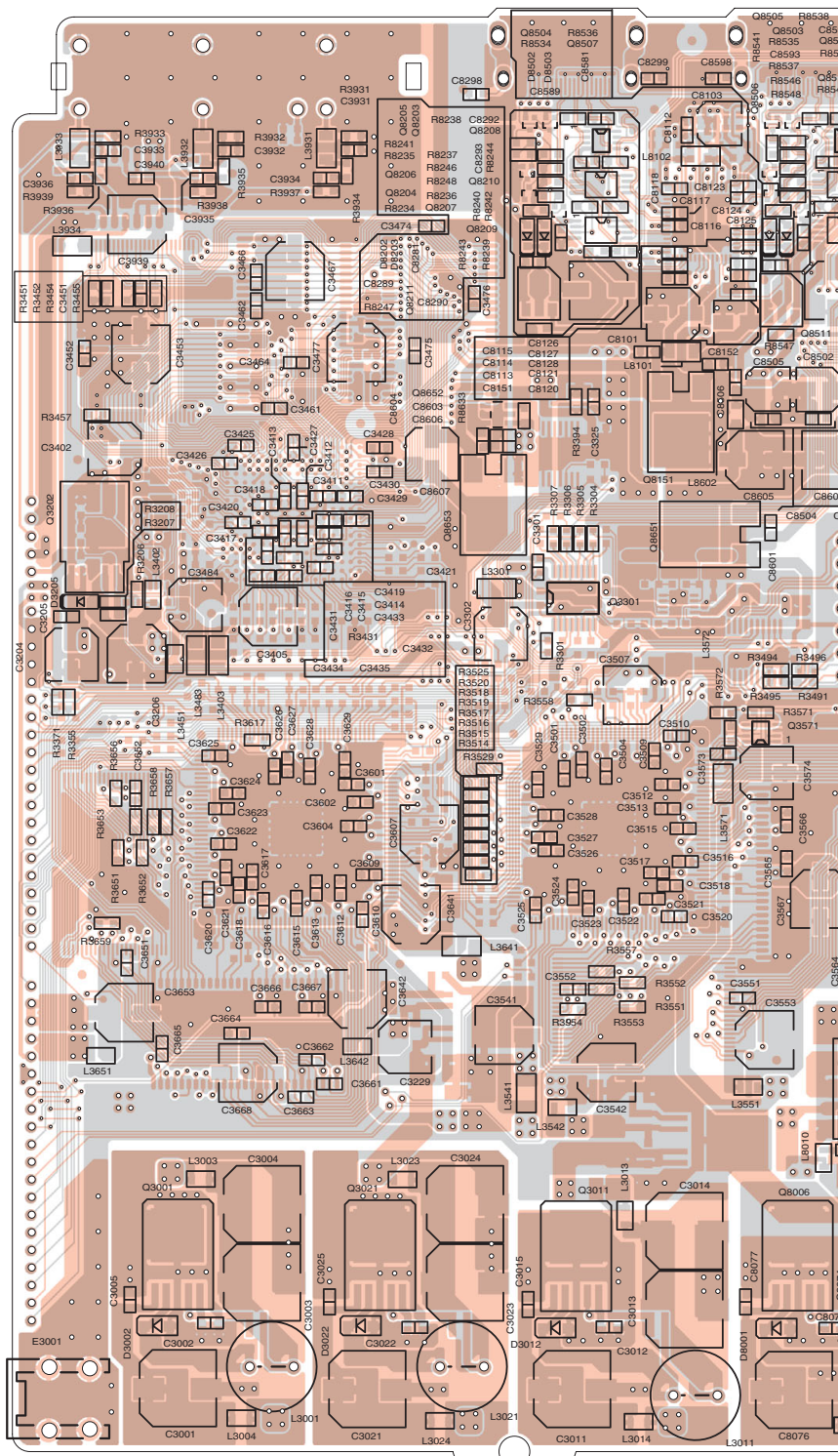
D

PRINTED CIRCUIT BOARD VIEWS-13

U24 DSP AND HDMI PC BOARD (NAHDM-9265)

Side-B

1
2
3
4
5

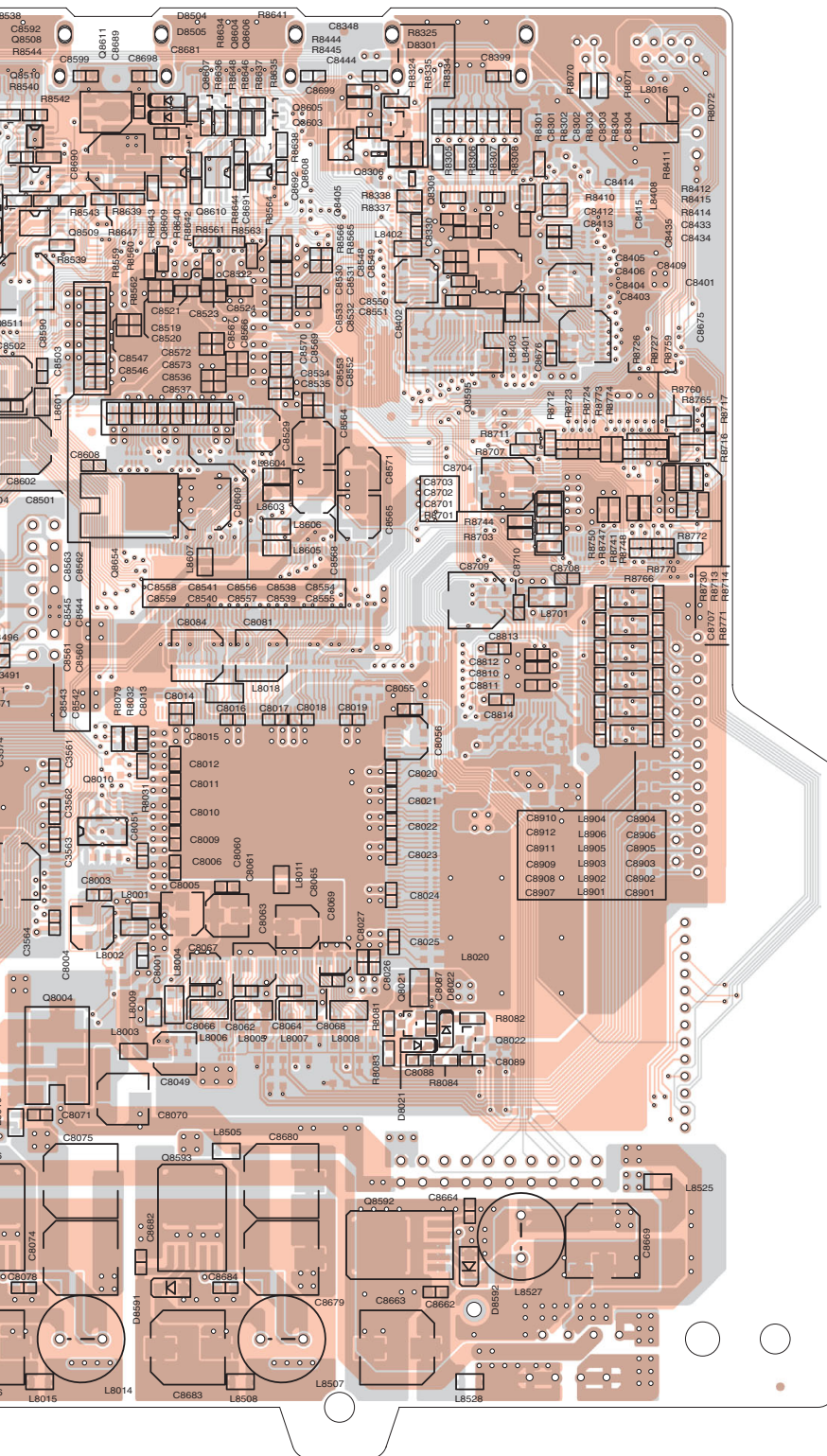


E

F

G

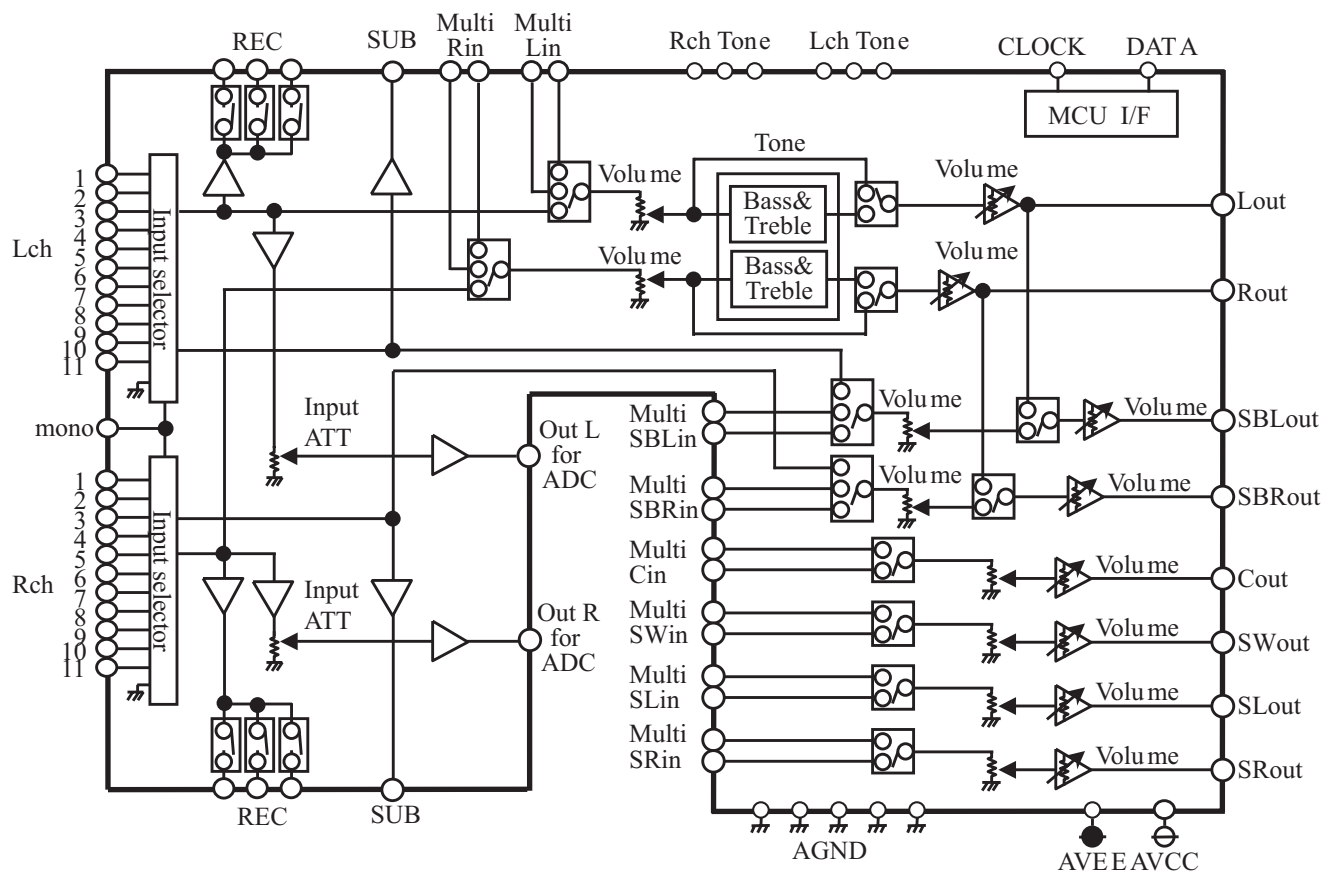
H



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -1

Q5501: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)

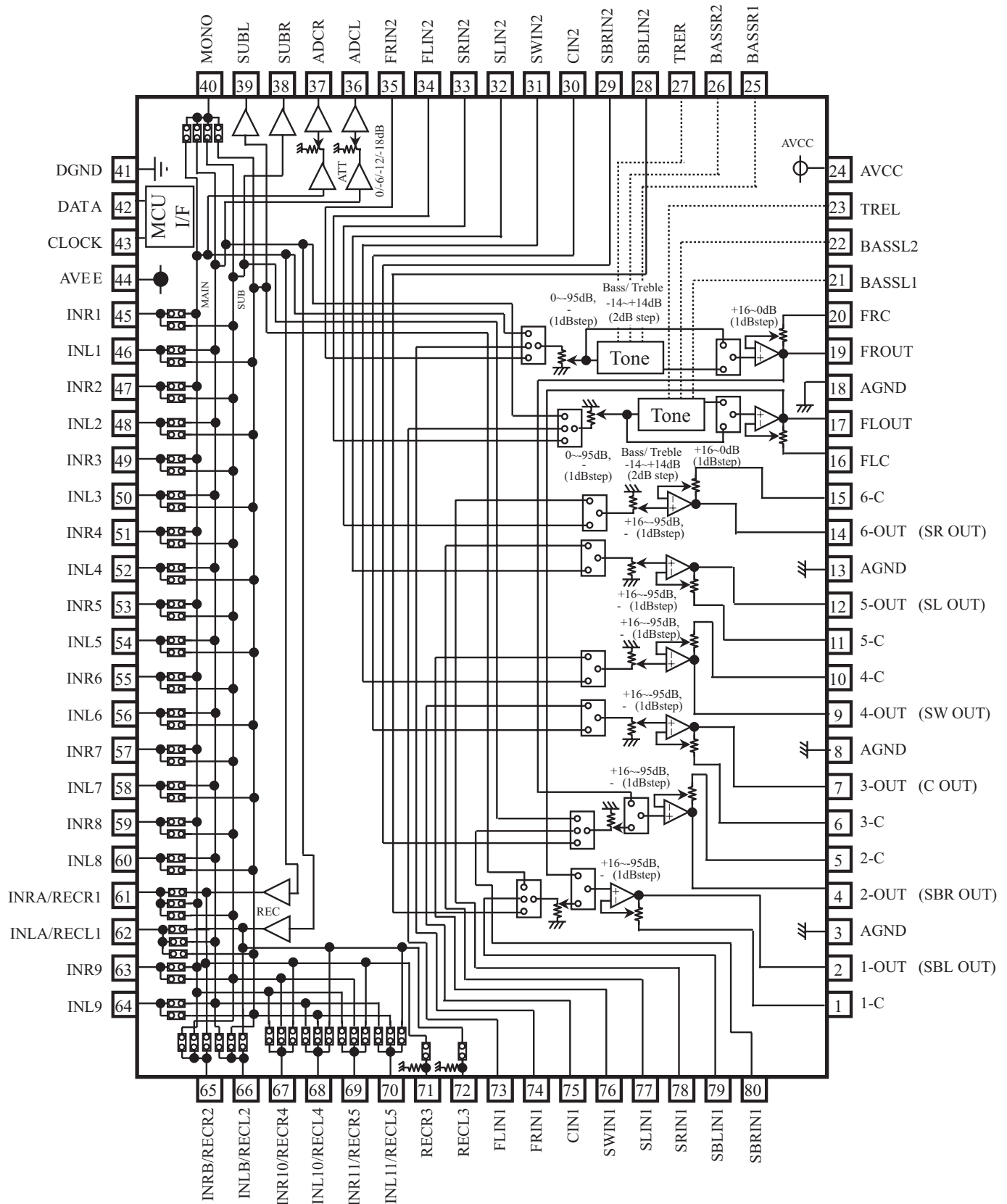
SYSTEM BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -2

Q5501: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)

BLOCK DIAGRAM AND PIN CONFIGURATION

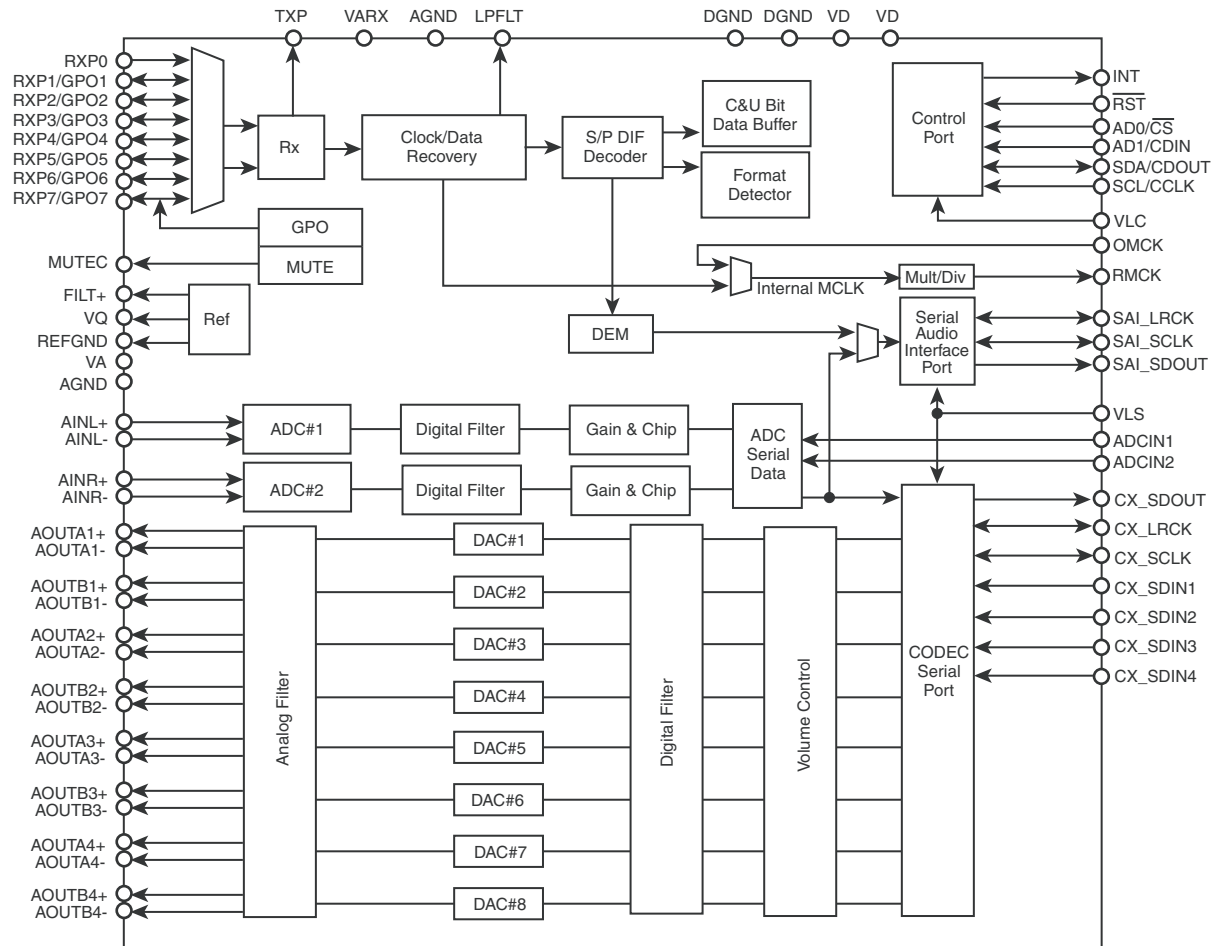


IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -3**Q5501: R2S15211FP (8 ch Electronic Volume, 11 Input Selector and Tone Control)****TERMINAL DESCRIPTION**

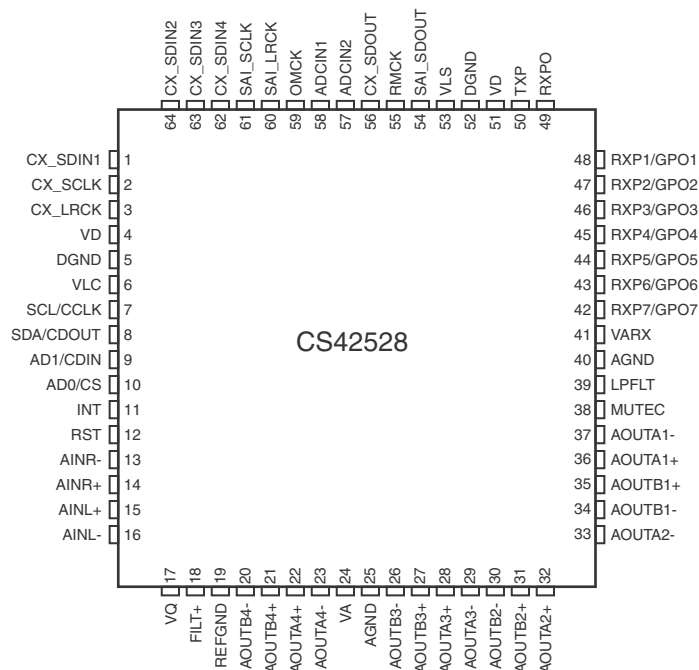
PIN No.	Name	Function
19,17, 14,12, 9,7, 4,2	FROUT,FLOUT, 6-OUT,5-OUT, 4-OUT, 3-OUT, 2-OUT,1-OUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
20,16, 15,11, 10,6, 5,1	FRC,FLC, 6-C,5-C, 4-C,3-C, 2-C,1-C	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
3,8, 13,18	AGND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

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -4

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -5

Q1101: CS42528(8 ch CODEC with S/PDIF Receiver)

TERMINAL DESCRIPTION (1/2)

Pin Name	#	Pin Description
CX_SDIN1	1	Codec Serial Audio Data Input (Input) - Input for two's complement serial audio data.
CX_SDIN2	64	
CX_SDIN3	63	
CX_SDIN4	62	
CX_SCLK	2	CODEC Serial Clock (Input/Output) - Serial clock for the CODEC serial audio interface
CX_LRCK	3	CODEC Left Right Clock (Input/ Output) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	Digital Power (Input) - Positive power supply for the digital section.
DGND	5 52	Digital Ground (Input) - Ground reference. Connects to digital ground.
VLC	6	Control Port Power (Input) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock (Input) - Serial clock for the serial control port.
SDA/CDOUT	8	Serial Control Data (Input/Output) - SDA is a data I/O line in IC mode and requires an external pull-up resistor to the logic interface voltage. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I ² C)/Serial Control Data (SPI) (Input) - AD1 a chip address pin in I ² C mode; CDIN is the input data line for control port interface in SPI mode.
AD0/ $\overline{\text{CS}}$	10	Address Bit 0 (I ² C)/Control Port Chip Select (SPI) (Input) - AD0 is a chip address pin in I ² C mode; CS is the chip select signal in SPI mode.
INT	11	Interrupt (Output) - The CS42528 will generate an interrupt condition as per the Interrupt Mask register.
$\overline{\text{RST}}$	12	Reset (Input) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL- AINL+	15 16	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
VQ	17	Quiescent Voltage (Output) - Filter connection for internal quiescent reference voltage.
FILT+	18	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
REFGND	19	Reference Ground (Input) - Ground reference for the internal sampling circuits.
AOUTA1 +, - AOUTB1 +, - AOUTA2 +, - AOUTB2 +, - AOUTA3 +, - AOUTB3 +, - AOUTA4 +, - AOUTB4 +, -	36, 37 35, 34 32, 33 31, 30 28, 29 27, 26 22, 23 21, 20	Differential Analog Output (Output) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	Analog Power (Input) - Positive power supply for the analog section.
AGND	25 40	Analog Ground (Input) - Ground reference. Connectes to analog ground.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -6

Q1101: CS42528(8 ch CODEC with S/PDIF Receiver)

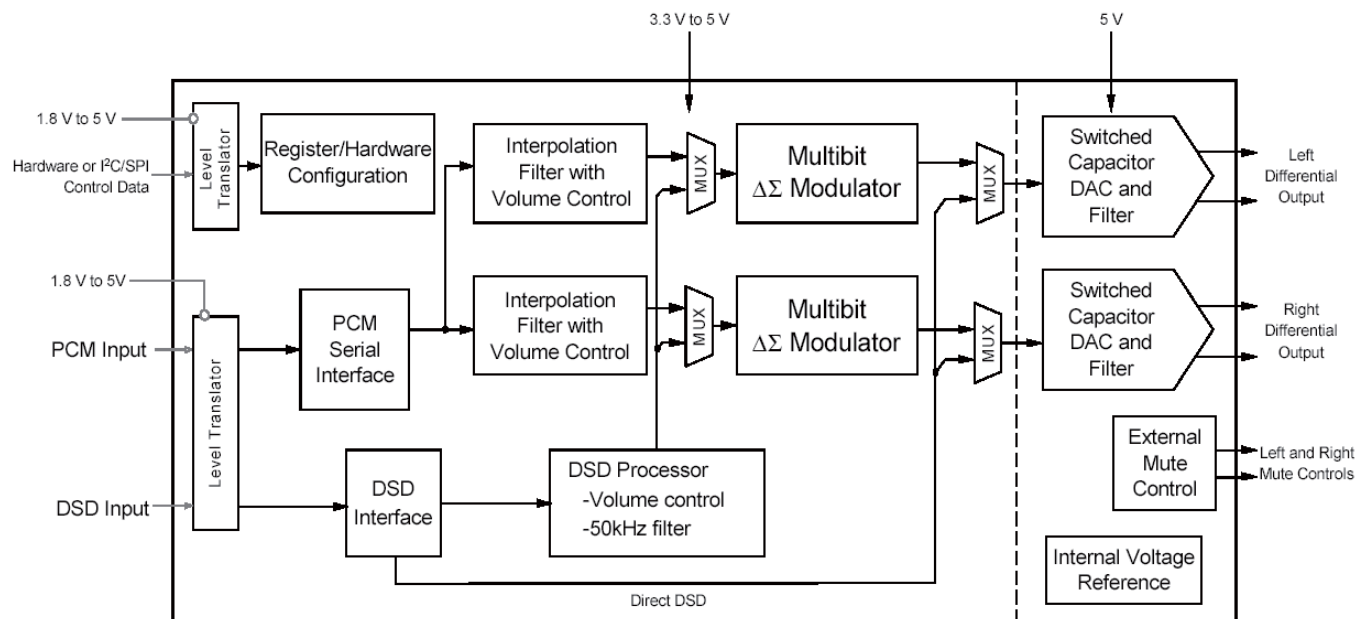
TERMINAL DESCRIPTION (2/2)

Pin Name	#	Pin Description
VA	24	Analog Power (Input) - Positive power supply for the analog section.
VARX	41	
AGND	25 40	Analog Ground (Input) - Ground reference. Connects to analog ground.
MUTEC	38	Mute Control (Output) - The Mute Control pin outputs high impedance following an initial power -on condition or whenever the PDN bit is set to a "1", forcing the codec into power -down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatory but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	PLL Loop Filter (Output) - An RC network should be connected between this pin and ground.
RXP7/GPO7	42	S/PDIF Receiver Input/ General Purpose Output (Input/ Output) - Receiver inputs for S/PDIF encoded data. The CS42528 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 register. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control registers.
RXP6/GPO6	43	
RXP5/GPO5	44	
RXP4/GPO4	45	
RXP3/GPO3	46	
RXP2/GPO2	47	
RXP1/GPO1	48	
RXP0	49	S/PDIF Receiver Input (Input) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	S/PDIF Transmitter Output (Output) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 register.
VLP	53	Serial Port Interface Power (Input) - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	Serial Audio Interface Serial Data Output (Output) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	Recovered Master Clock (Output) - Recovered master clock output from the External Clock Reference
CX_SDOUT	56	CODEC Serial Data Output (Output) - Output for two's complement serial audio data the internal and external ADCs.
ADCIN1	58	External ADC Serial Input (Input) - The CS42528 provides for up to two external stereo analog to digital converter inputs to provide a maximum of six channels on serial data output line when the CS42528 is placed in One Line mode.
ADCIN2	57	
OMCK	59	External Reference Clock (Input) - External clock reference that must be within the ranges specified in currently active on the serial audio data line.
SAI_LRCK	60	Serial Audio Interface Left/Right Clock (Input/Output) - Determines which channel, Left or Right, is currently active on the serial audio data line.
SAI_SCLK	61	Serial Audio Interface Serial Clock (Input/Output) - Serial clock for the Serial Audio Interface

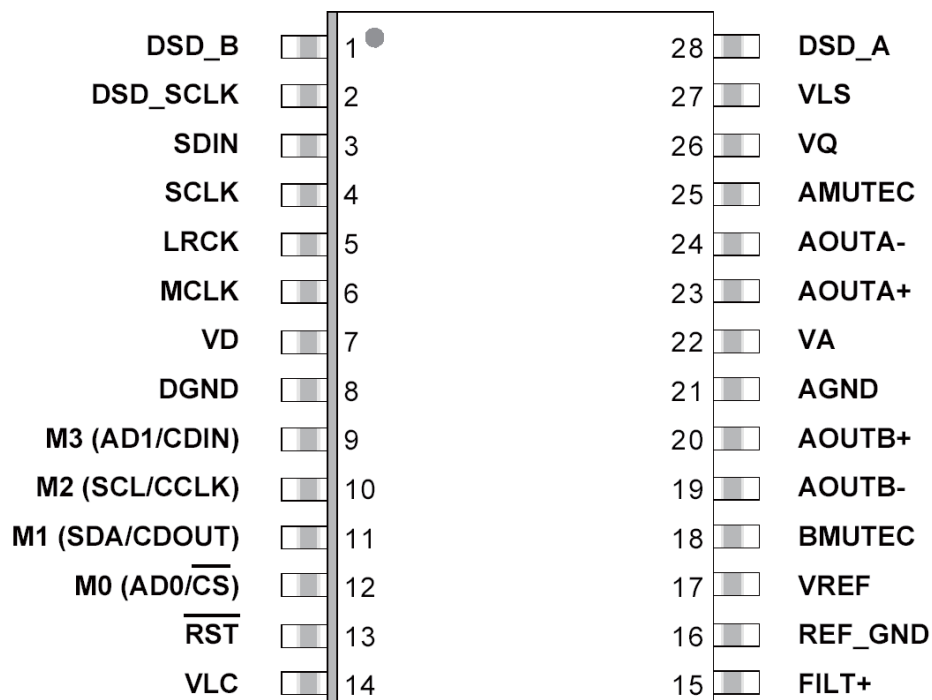
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -7

Q1201: CS4398-CZZ(Multi-bit DAC with Volume Control)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -8

Q1201: CS4398-CZZ(Multi-bit DAC with Volume Control)

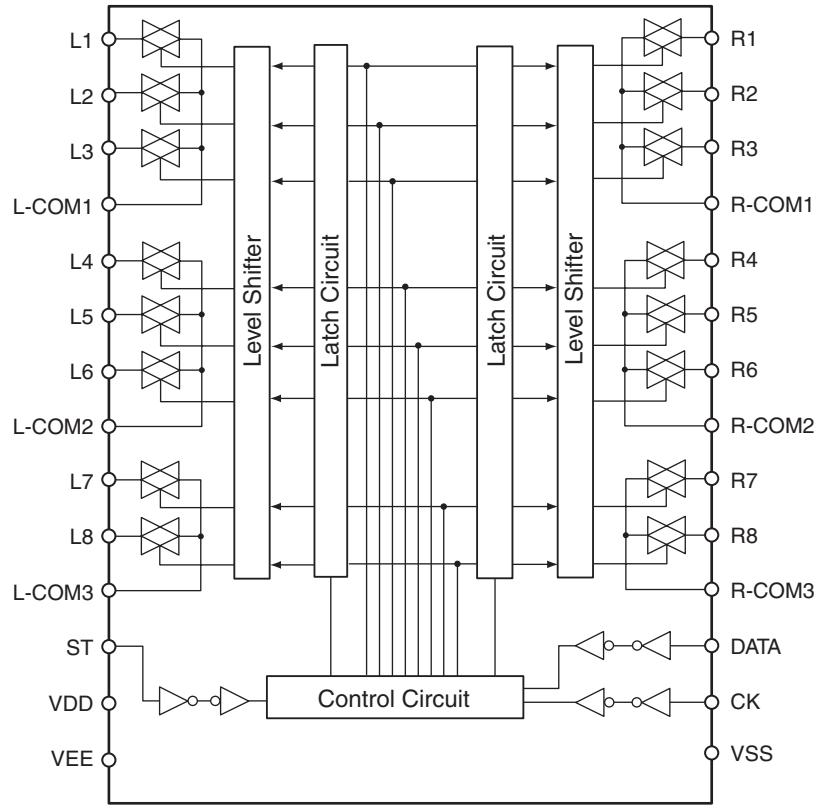
TERMINAL DESCRIPTION

Pin Name	Pin #	Pin Description
DSD_A	28	Direct Stream Digital Input (<i>Input</i>) - Input for Direct Stream Digital serial audio data.
DSD_B	1	
DSD_SCLK	2	DSD Serial Clock (<i>Input</i>) - Serial clock for the Direct Stream Digital audio interface.
SDIN	3	Serial Audio Data Input (<i>Input</i>) - Input for two's complement serial audio data.
SCLK	4	Serial Clock (<i>Input</i>) - Serial clock for the serial audio interface.
LRCK	5	Left Right Clock (<i>Input</i>) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	Master Clock (<i>Input</i>) - Clock source for the delta-sigma modulator and digital filters.
VD	7	Digital Power (<i>Input</i>) - Positive power for the digital section.
DGND	8	Digital Ground (<i>Input</i>) - Ground reference for the digital section.
RST	13	Reset (<i>Input</i>) - The device enters system reset when enabled.
VLC	14	Control Port Power (<i>Input</i>) - Positive power for Control Port I/O.
FILT+	15	Positive Voltage Reference (<i>Output</i>) - Positive reference voltage for the internal sampling circuits.
REF_GND	16	Reference Ground (<i>Input</i>) - Ground reference for the internal sampling circuits.
VREF	17	Voltage Reference (<i>Input</i>) - Positive voltage reference for the internal sampling circuits.
BMUTEC	18	Mute Control (<i>Output</i>) - The Mute Control pin is active during power-up initialization, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect. During reset, these outputs are set to a high impedance.
AMUTEC	25	
AOUTB+	20	Differential Right Channel Analog Output (<i>Output</i>) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTB-	19	
AGND	21	Analog Ground (<i>Input</i>) - Ground reference for the analog section.
VA	22	Analog Power (<i>Input</i>) - Positive power for the analog section.
AOUTA+	23	Differential Left Channel Analog Output (<i>Output</i>) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTA-	24	
VQ	26	Quiescent Voltage (<i>Output</i>) - Filter connection for internal quiescent voltage.
VLS	27	Serial Audio Interface Power (<i>Input</i>) - Positive power for serial audio interface I/O.
Stand-Alone Mode Definitions		
M3	9	Mode Selection (<i>Input</i>) - Determines the operational mode of the device.
M2	10	
M1	11	
M0	12	
Control Port Mode Definitions		
AD1/CDIN	9	Address Bit 1 (I²C) / Control Data Input (SPI) (<i>Input</i>) - AD1 is a chip address pin in I ² C mode; CDIN is the input data line for the Control Port interface in SPI mode.
SCL/CCLK	10	Serial Control Port Clock (<i>Input</i>) - Serial clock for the serial Control Port.
SDA/CDOUT	11	Serial Control Data (I²C) / Control Data Output (SPI) (<i>Input/Output</i>) - SDA is a data I/O line in I ² C mode. CDOUT is the output data line for the Control Port interface in SPI mode.
AD0/ $\overline{\text{CS}}$	12	Address Bit 0 (I²C) / Control Port Chip Select (SPI) (<i>Input</i>) - AD0 is a chip address pin in I ² C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -9

Q1601: NJU7312AM(Analog Function Switch)

BLOCK DIAGRAM



TERMINAL DESCRIPTION

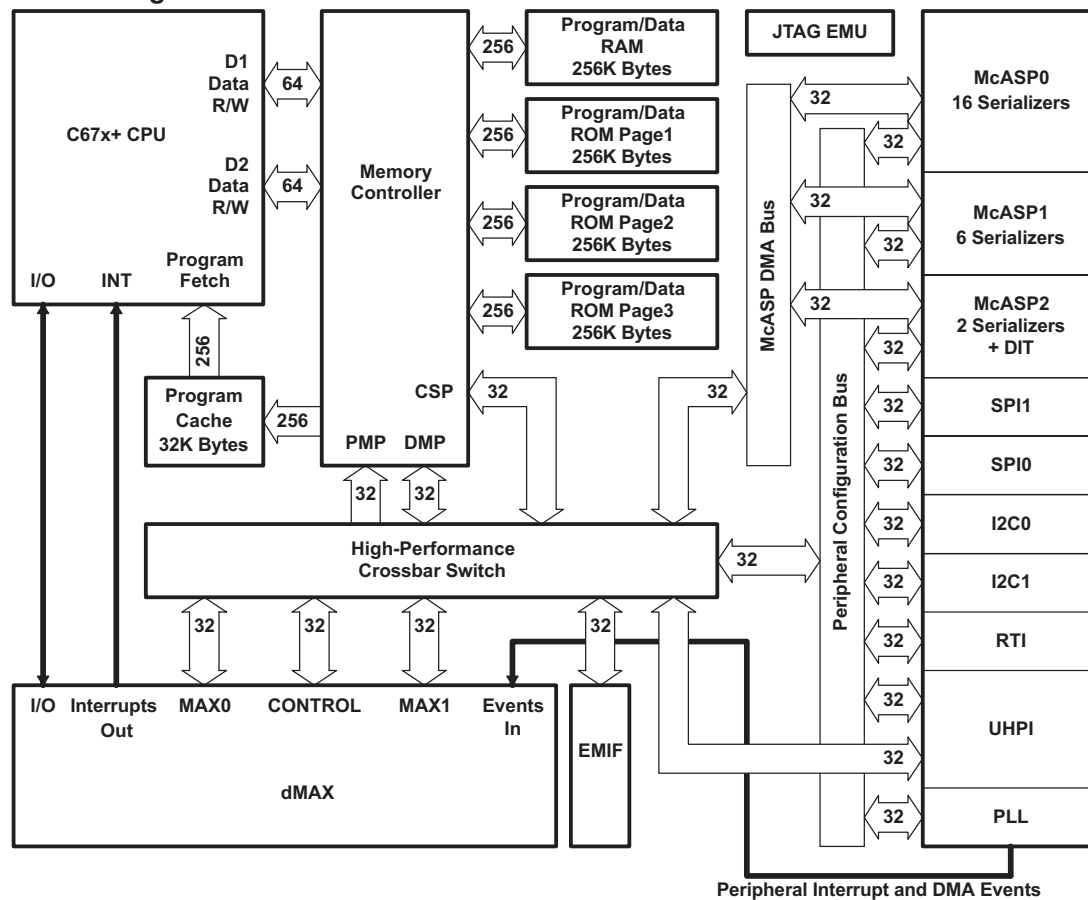
Pin No.	Pin Name	Description	Pin No.	Pin Name	Description
1	VEE	Negative Voltage Supply	16	CK	Clock input/output
2	L1	Analog switch input/output	17	DATA	Data input
3	L2	Analog switch input/output	19	R-COM3	R7, R8 Common
4	L3	Analog switch input/output	20	R8	Analog switch input/output
5	L-COM1	L1, L2, 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 -10

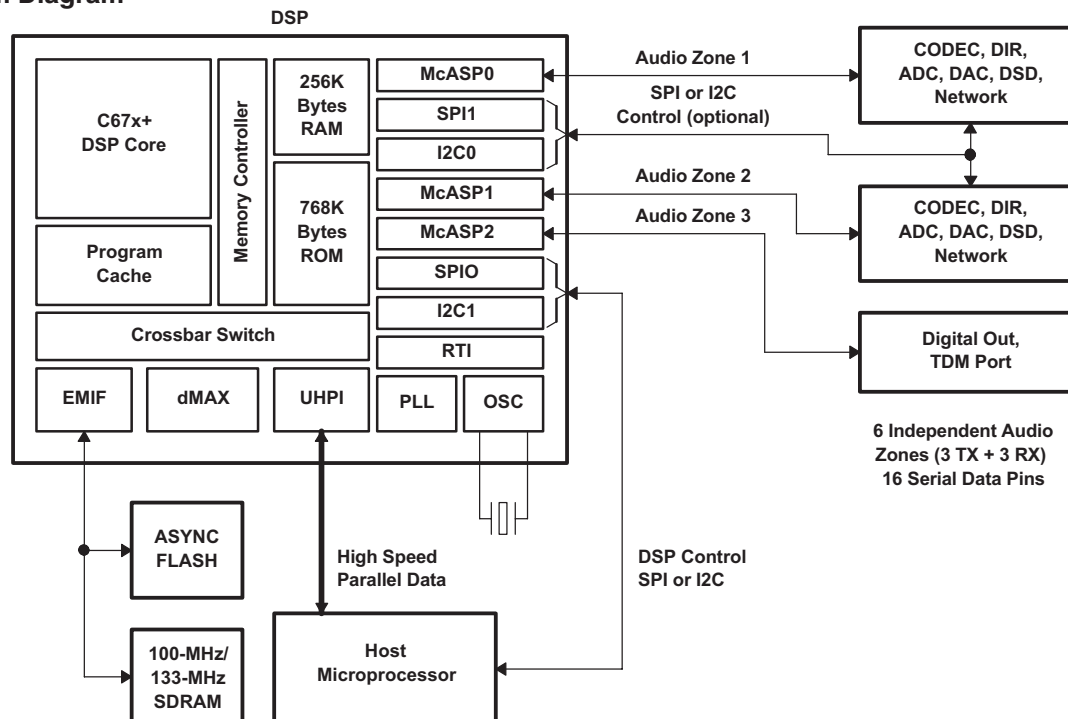
Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

BLOCK DIAGRAM

Device Block Diagram



System Diagram



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -11

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

PIN CONFIGURATION(1/2)

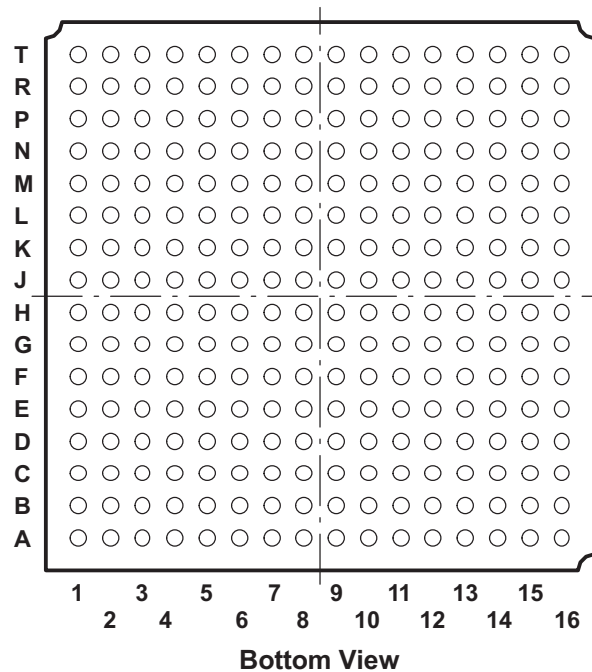
PIN MAP

T	V _{SS}	DV _{DD}	$\overline{\text{EM_WE}}$	EM_D[7]	EM_D[5]	EM_D[3]	V _{SS}	EM_D[0]	EM_D[14]	V _{SS}	EM_D[11]	EM_D[9]	EM $\overline{\text{WE}}$ DQM[1]	EM_CKE	DV _{DD}	V _{SS}
R	DV _{DD}	EM_D[23] /UHPI_ 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 _{DD}
P	TCK	UHPI_ HD[24]	EM_D[21] /UHPI_ HA[5]	EM_D[20] /UHPI_ HA[4]	EM_D[19] /UHPI_ HA[3]	EM_D[17] /UHPI_ HA[1]	EM_D[31] /UHPI_ HA[15]	DV _{DD}	EM_D[28] /UHPI_ HA[12]	EM_D[26] /UHPI_ HA[10]	EM_D[24] /UHPI_ HA[8]	EM_A[12]	EM $\overline{\text{WE}}$ DQM[2]	UHPI_ HD[7]	EM_A[11]	EM_A[9]
N	$\overline{\text{EMU}}[1]$	UHPI_ HD[25]	UHPI_ HD[26]	EM_D[22] /UHPI_ HA[6]	DV _{DD}	EM_D[18] /UHPI_ HA[2]	EM_D[16] /UHPI_ HA[0]	EM_D[30] /UHPI_ HA[14]	EM_D[29] /UHPI_ HA[13]	EM_D[27] /UHPI_ HA[11]	EM_D[25] /UHPI_ HA[9]	DV _{DD}	UHPI_ HD[5]	UHPI_ HD[6]	EM_A[8]	EM_A[7]
M	$\overline{\text{EMU}}[0]$	TDO	UHPI_ HD[27]	DV _{DD}	V _{SS}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	V _{SS}	DV _{DD}	UHPI_ HD[2]	EM_A[6]	EM_A[5]
L	TDI	UHPI_ HD[30]	UHPI_ HD[28]	UHPI_ HD[29]	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	UHPI_ HD[3]	UHPI_ HD[4]	EM_A[4]	EM_A[3]
K	V _{SS}	PLLHV	TMS	$\overline{\text{TRST}}$	CV _{DD}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	CV _{DD}	UHPI_ HD[0]	UHPI_ HD[1]	EM_A[2]	V _{SS}
J	OSCV _{SS}	OSCIN	OSCOU _T	OSCV _{DD}	CV _{DD}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	CV _{DD}	UHPI_ HD[15]	DV _{DD}	EM_A[1]	EM_A[0]
H	UHPI_ HD[16] /HHWIL	CLKIN	V _{SS}	UHPI_ HD[31]	CV _{DD}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	CV _{DD}	UHPI_ HD[14]	UHPI_ HD[13]	EM_A[10]	EM_BA[1]
G	V _{SS}	$\overline{\text{RESET}}$	UHPI_ HD[17]	UHPI_ HD[18]	CV _{DD}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	CV _{DD}	UHPI_ HD[12]	UHPI_ HD[11]	EM_BA[0]	V _{SS}
F	AFSR1	AFSX1	UHPI_ HD[19]	UHPI_ HD[20]	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	V _{SS}	UHPI_ HD[10]	UHPI_ HD[9]	$\overline{\text{EM_CS}}[0]$	$\overline{\text{EM_RAS}}$
E	ACLKR1	ACLKX1	UHPI_ HD[21]	DV _{DD}	V _{SS}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	CV _{DD}	V _{SS}	DV _{DD}	UHPI_ HD[8]	$\overline{\text{EM_CS}}[2]$	EM_R $\overline{\text{W}}$
D	AHCLKX1	AMUTE1	UHPI_ HD[22]	DV _{DD}	DV _{DD}	$\overline{\text{UHPI_HRDY}}$	$\overline{\text{UHPI_HDS}}[1]$	UHPI_ HR $\overline{\text{W}}$	UHPI_ HCNTL[0]	AMUTE2/ HINT	ACLKX2	DV _{DD}	DV _{DD}	EM_WAIT	$\overline{\text{EM_OE}}$	SPI0_ENA /I2C1_ SDA
C	AMUTE0	AHCLKX0 /AHCLKX2	UHPI_ 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_ HCNTL[1]	AFSX2	AFSR2	ACLKR2	AHCLKR2	SPI0_SCS /I2C1_ SCL	SPI0_CLK /I2C0_ SCL
B	DV _{DD}	$\overline{\text{UHPI_HBE}}[3]$	AHCLKR0 /AHCLKR1	AFSR0	AXR0[15] /AXR2[0]	AXR0[13] /AXR1[0]	AXR0[12] /AXR1[1]	AXR0[10] /AXR1[3]	AXR0[8] /AXR1[5] /SPI1 SOMI	AXR0[7] /SPI1 CLK	AXR0[5] /SPI1 SCS	AXR0[3]	AXR0[1]	SPI0_ SOMI /I2C0_ SDA	SPI0_ SIMO	DV _{DD}
A	V _{SS}	DV _{DD}	AFSX0	ACLKX0	ACLKR0	AXR0[14] /AXR2[1]	V _{SS}	AXR0[11] /AXR1[2]	AXR0[9] /AXR1[4] /SPI1 SIMO	V _{SS}	AXR0[6] /SPI1 ENA	AXR0[4]	AXR0[2]	AXR0[0]	DV _{DD}	V _{SS}
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -12

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

PIN CONFIGURATION(2/2)



TERMINAL DESCRIPTION(1/5)

SIGNAL NAME	BALL NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
Clocks					
OSCIN	J2	I	-	N	1.2-V Oscillator Input
OSCOUT	J3	O	-	N	1.2-V Oscillator Output
OSCV _{DD}	J4	PWR	-	N	Oscillator 1.2-V V _{DD} tap point (for filter only)
OSCV _{SS}	J1	PWR	-	N	Oscillator V _{SS} 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)
Device Reset					
RESET	G2	I	-	N	Device reset pin
Emulation/JTAG Port					
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
Power Pins					
Core Supply (CV _{DD})	E6, E7, E8, E9, E10, E11, G5, G12, H5, H12, J5, J12, K5, K12, M6, M7, M8, M9, M10, M11				
IO Supply (DV _{DD})	A2, A15, B1, B16, D4, D5, D12, D13, E4, E13, J14, M4, M13, N5, N12, P8, R1, R16, T2, T15				
Ground (V _{SS})	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 -13

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

TERMINAL DESCRIPTION(2/5)

SIGNAL NAME	BALL NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Address and Control					
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 (<i>Programmable Polarity</i>) or Interrupt (<i>NAND</i>)

- (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 -14

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

TERMINAL DESCRIPTION(3/5)

SIGNAL NAME	BALL NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Data Bus / Universal Host-Port Interface (UHPI) Address Bus Option					
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 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 -15

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

TERMINAL DESCRIPTION(4/5)

SIGNAL NAME	BALL NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	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: • Fullword Multiplexed Address and Data • Fullword Non-Multiplexed UHPI_HHWIL (I) on pin UHPI_HD[16]/HHWIL and GPIO on other pins in the following mode: • Half-word Multiplexed Address and Data 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 -16

Q3401: D790E001BZDH275/D710E001BZDH275 (Audio DSP)

TERMINAL DESCRIPTION(5/5)

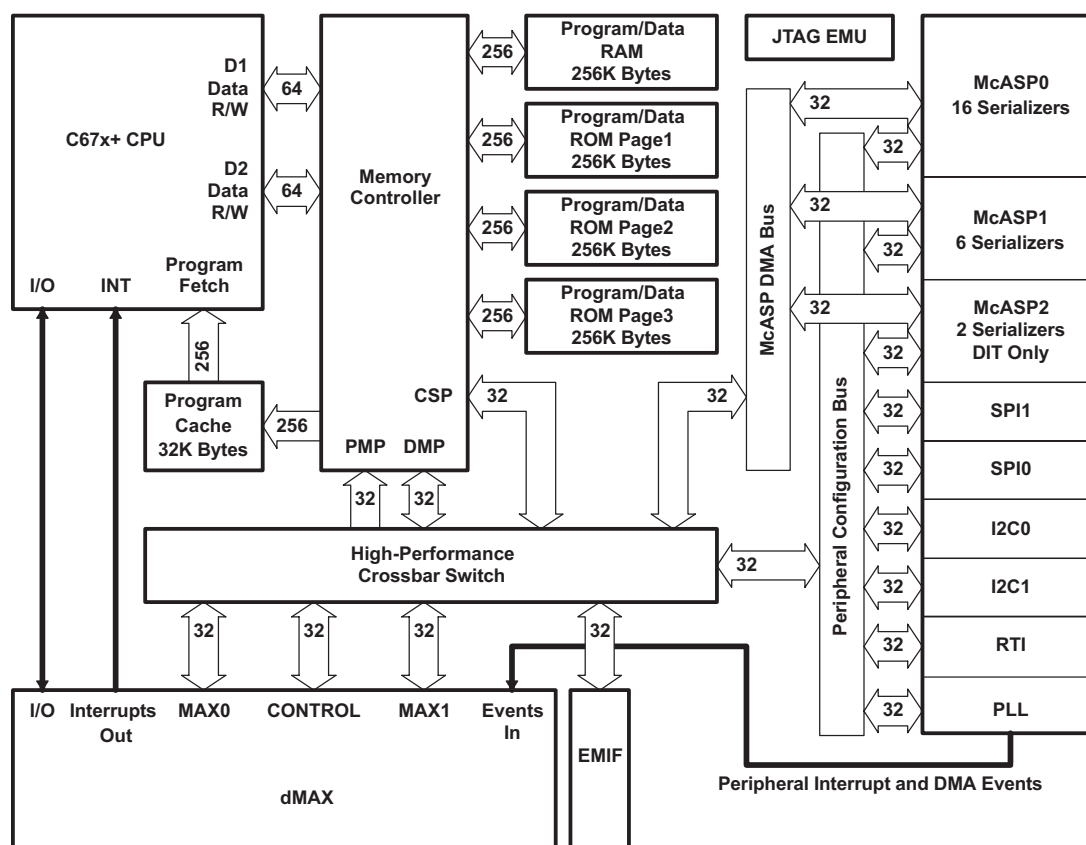
SIGNAL NAME	BALL NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports					
AHCLKR0/AHCLKR1	B3	IO	-	Y	McASP0 and McASP1 Receive Master Clock
ACLKR0	A5	IO	-	Y	McASP0 Receive Bit Clock
AFSR0	B4	IO	-	Y	McASP0 Receive Frame Sync (L/R Clock)
AHCLKX0/AHCLKX2	C2	IO	-	Y	McASP0 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_SC $\overline{\text{S}}$	B11	IO	-	Y	McASP0 Serial Data 5 or SPI1 Slave Chip Select
AXR0[6]/SPI1_EN $\overline{\text{A}}$	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
SPI0, I2C0, and I2C1 Serial Port Pins					
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_SC $\overline{\text{S}}$ /I2C1_SCL	C15	IO	-	Y	SPI0 Slave Chip Select or I2C1 Serial Clock
SPI0_EN $\overline{\text{A}}$ /I2C1_SDA	D16	IO	-	Y	SPI0 Enable (Ready) or I2C1 Serial Data

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -17

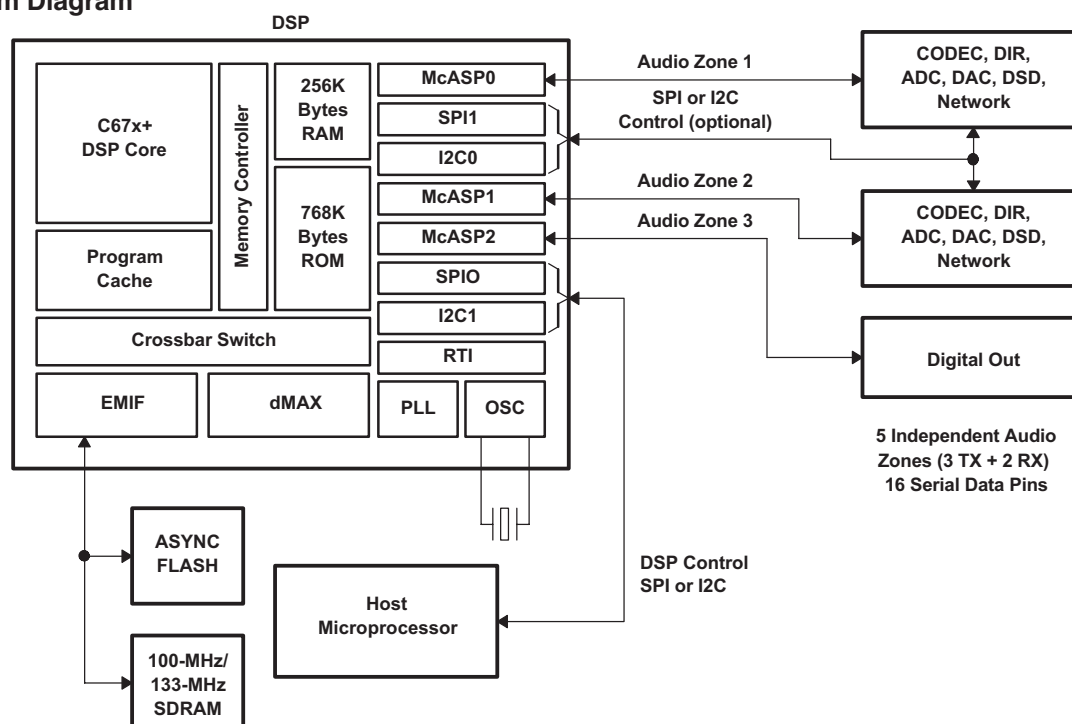
Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

BLOCK DIAGRAM

Device Block Diagram



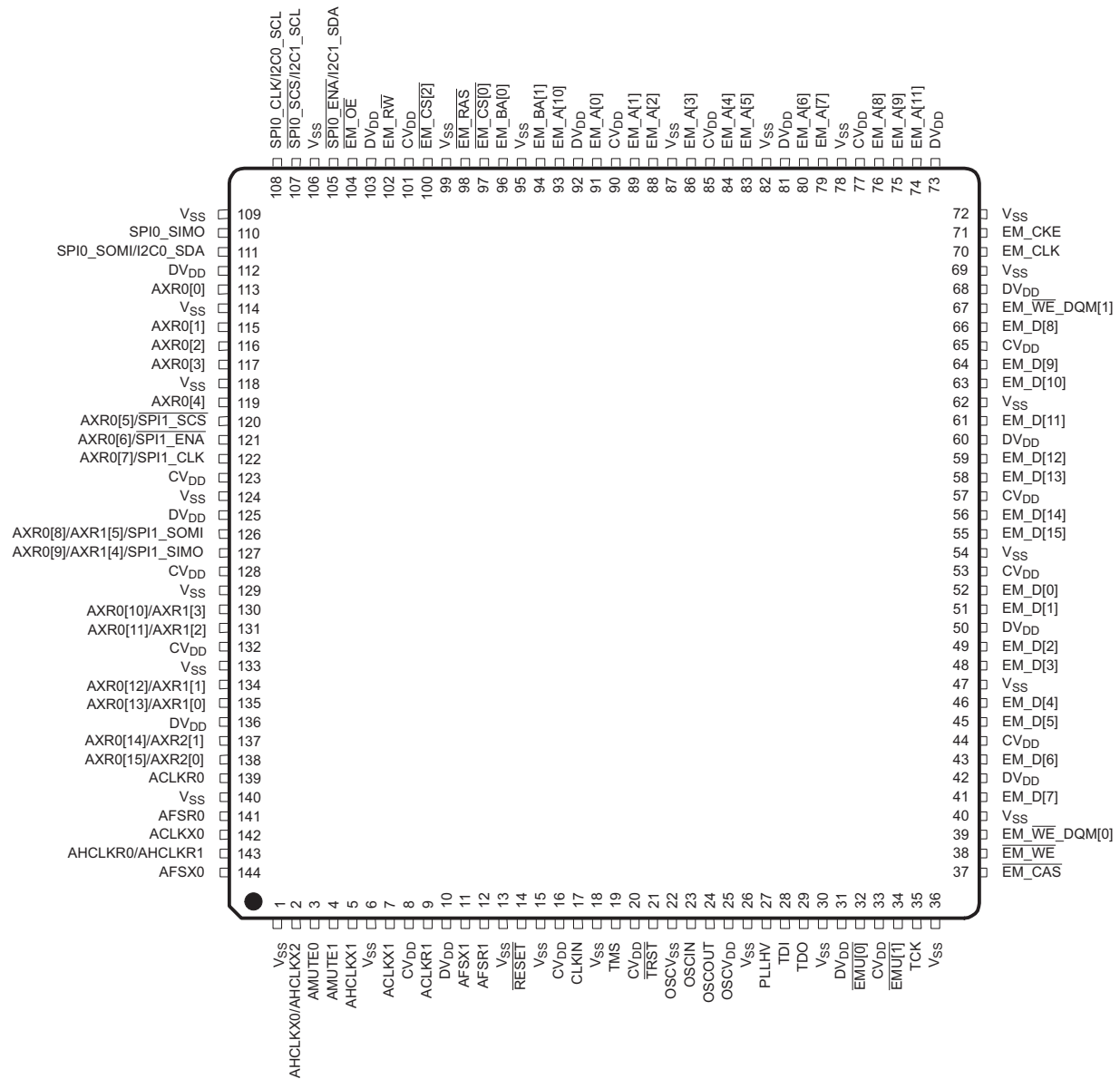
System Diagram



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -18

Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -19

Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

TERMINAL DESCRIPTION(1/3)

SIGNAL NAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Address and Control					
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 -20

Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

TERMINAL DESCRIPTION(2/3)

SIGNAL NAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports					
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
SPI0, I2C0, and I2C1 Serial Port Pins					
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 -21

Q3501: D788E001BRFP266/D708E001BRFP266 (Audio DSP)

TERMINAL DESCRIPTION(3/3)

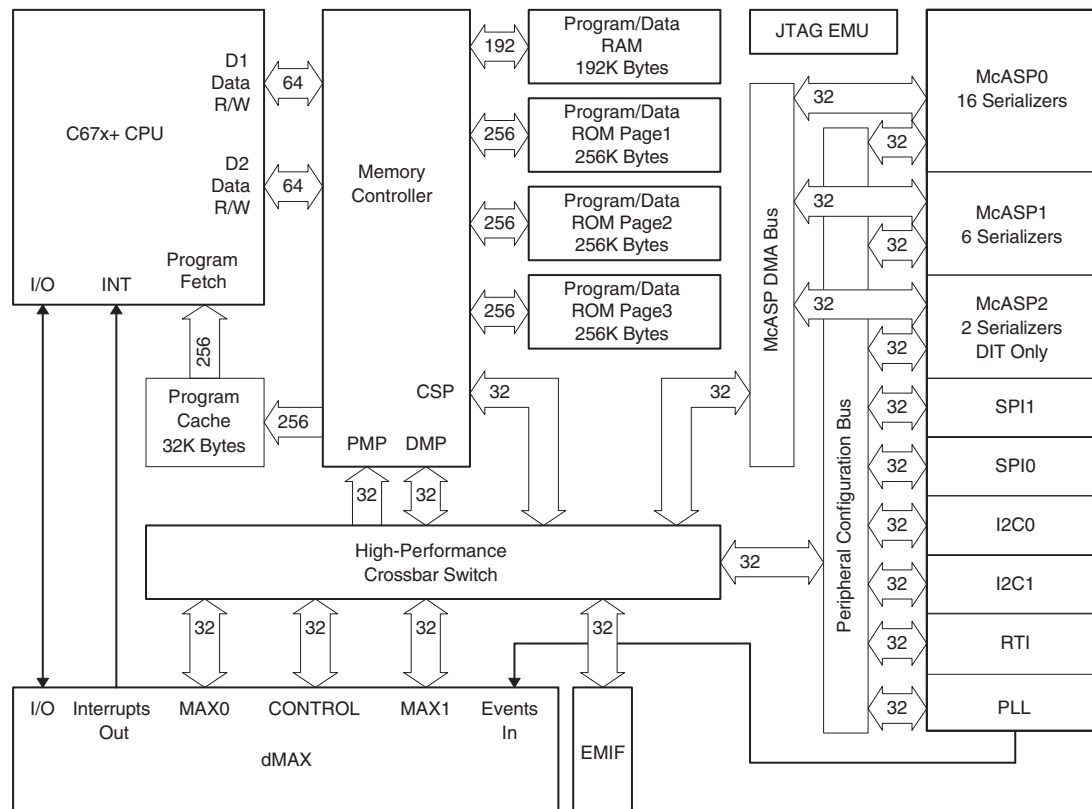
SIGNAL NAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Data Bus					
EM_D[0]	52	IO	-	N	EMIF Data Bus [Lower 16 Bits]
EM_D[1]	51	IO	-	N	
EM_D[2]	49	IO	-	N	
EM_D[3]	48	IO	-	N	
EM_D[4]	46	IO	-	N	
EM_D[5]	45	IO	-	N	
EM_D[6]	43	IO	-	N	
EM_D[7]	41	IO	-	N	
EM_D[8]	66	IO	-	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 ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
Clocks					
OSCIN	23	I	-	N	1.2-V Oscillator Input
OSCOUT	24	O	-	N	1.2-V Oscillator Output
OSCV _{DD}	25	PWR	-	N	Oscillator 1.2-V V _{DD} tap point (for filter only)
OSCV _{SS}	22	PWR	-	N	Oscillator V _{SS} 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)
Device Reset					
RESET	14	I	-	N	Device reset pin
Emulation/JTAG Port					
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
Power Pins					
Core Supply (CV _{DD})	8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132				
IO Supply (DV _{DD})	10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136				
Ground (V _{SS})	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				

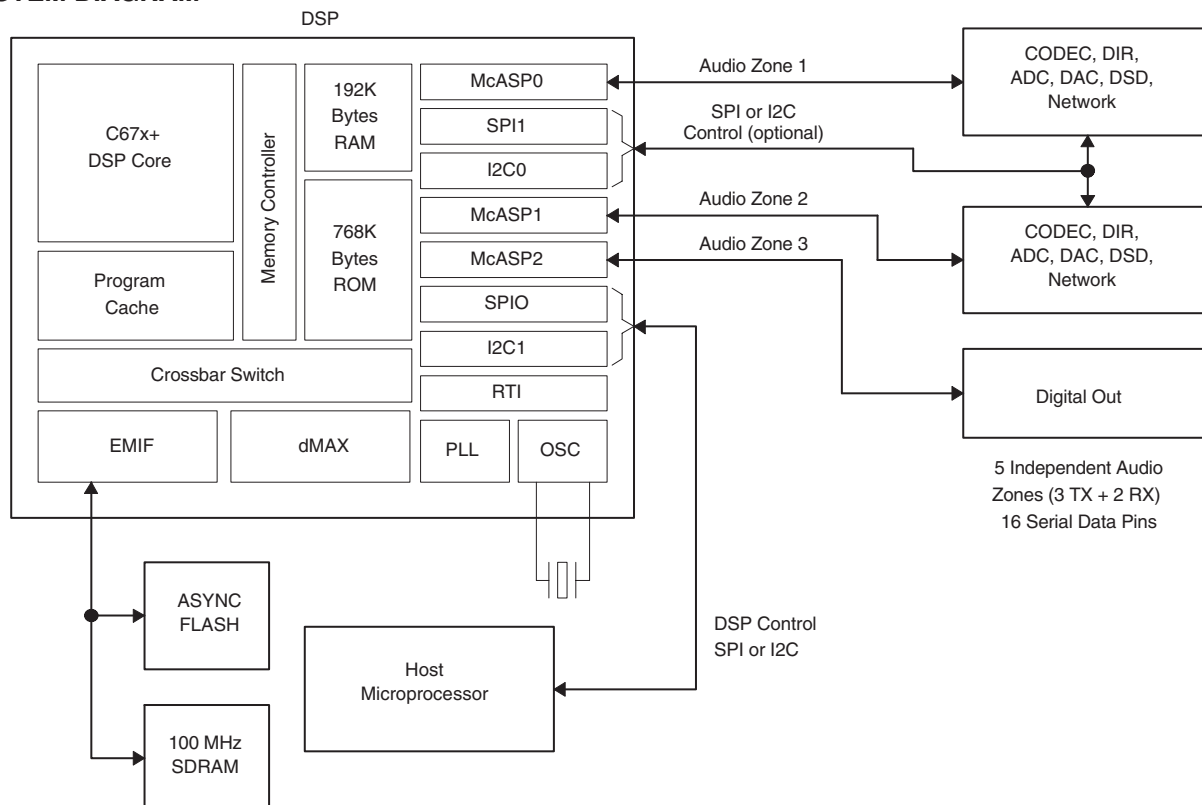
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -22

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

BLOCK DIAGRAM



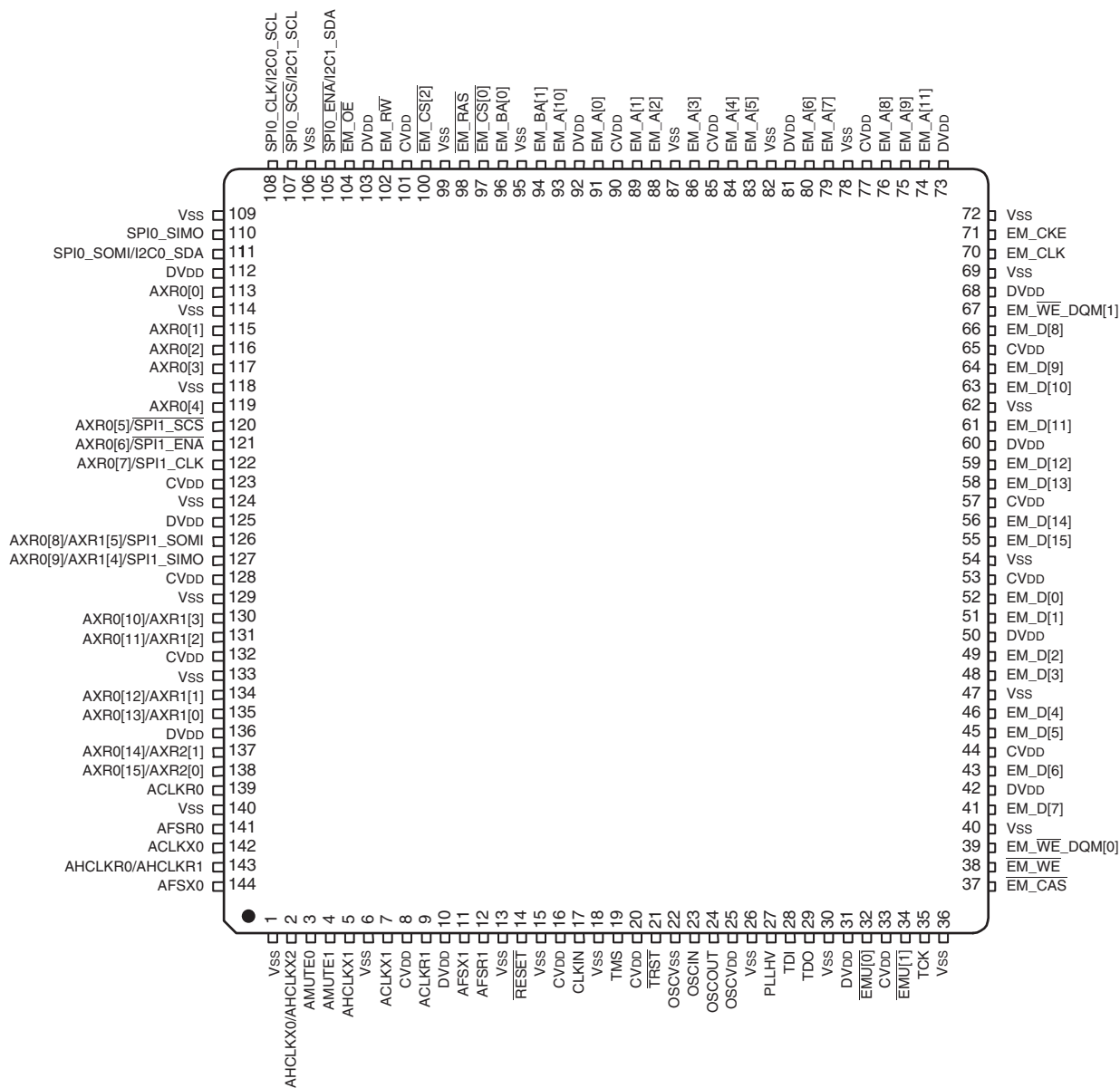
SYSTEM DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -23

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

PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -24

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

TERMINAL DESCRIPTION(1/3)

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
External Memory Interface (EMIF) Address and Control			
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
External Memory Interface (EMIF) Data Bus			
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 -25

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

TERMINAL DESCRIPTION(2/3)

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports			
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
SPI0, I2C0, and I2C1 Serial Port Pins			
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 -26

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

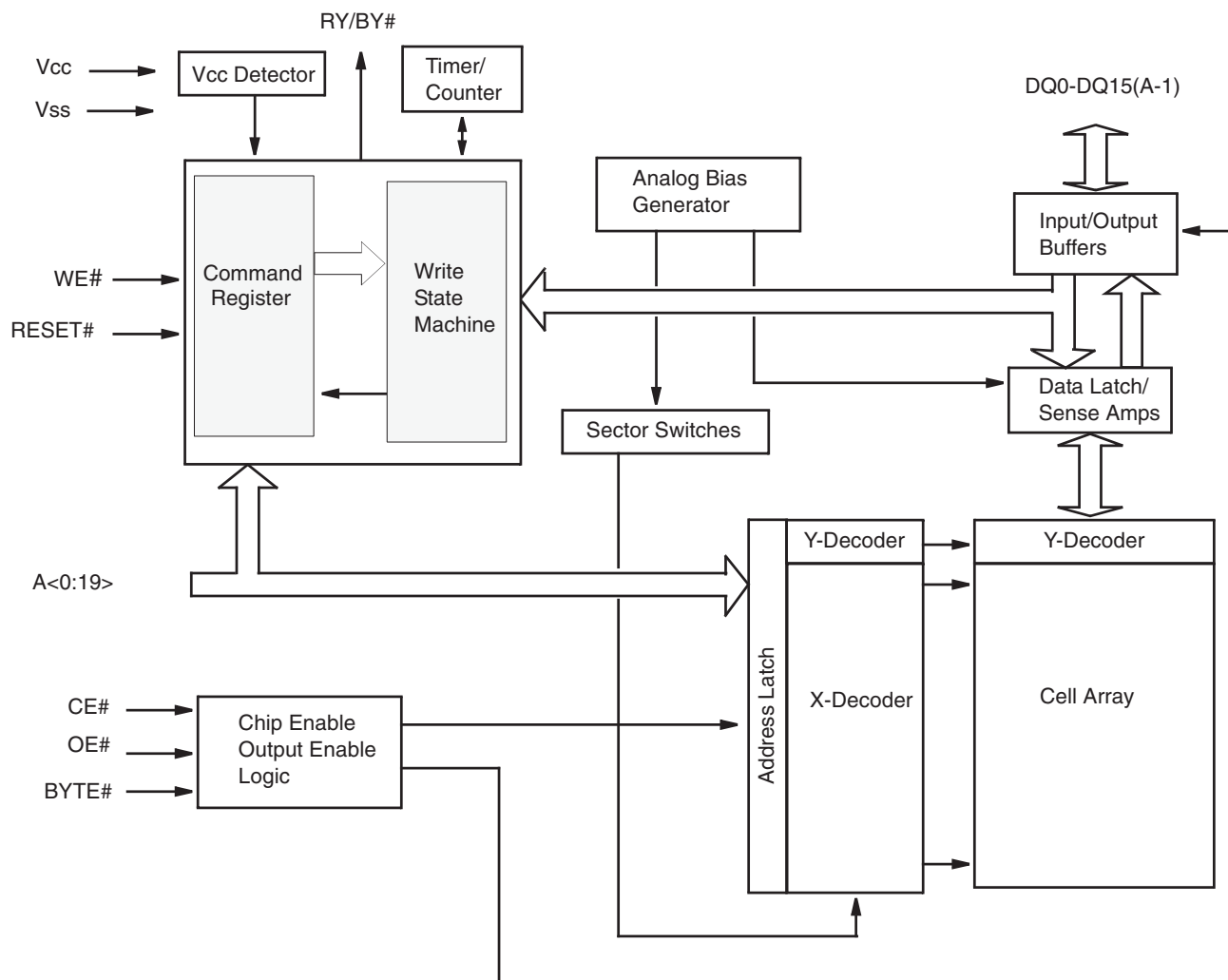
TERMINAL DESCRIPTION(3/3)

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
Clocks			
OSCIN	23	I	1.2-V OscillatorInput
OSCOU	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)
Device Reset			
RESET	14	I	Device reset pin
Emulation/JTAG Port			
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
Power Pins			
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		

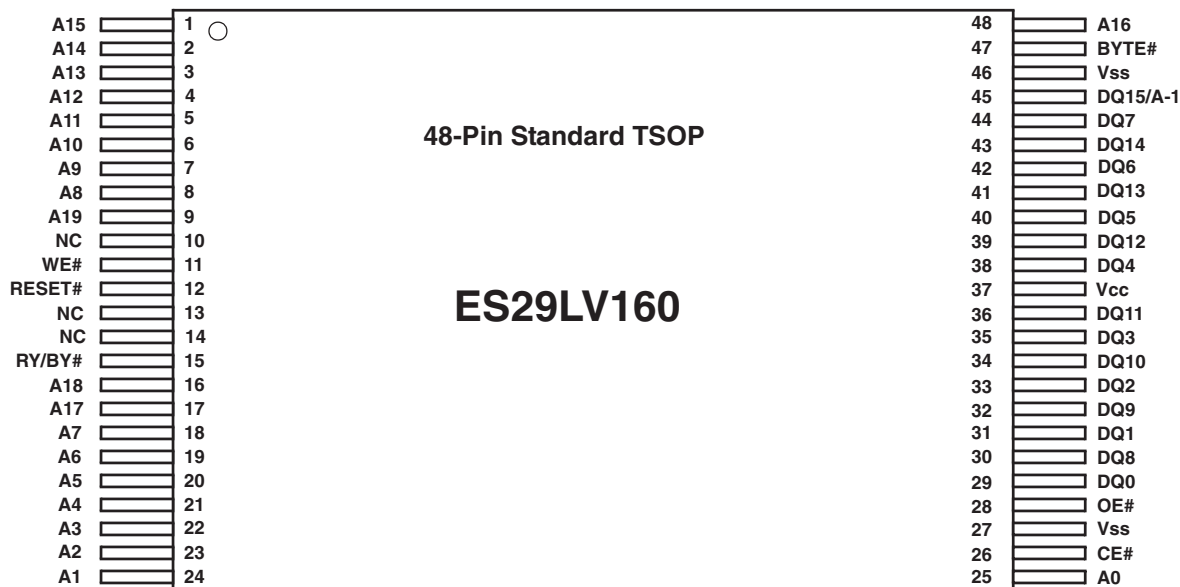
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -27

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

BLOCK DIAGRAM



PIN CONFIGURATION



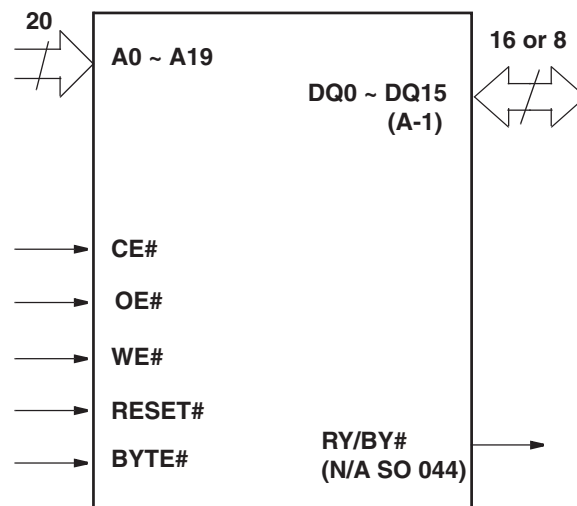
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -28

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) 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 (see Product Selector Guide for speed options and voltage supply tolerances)
Vss	Device Ground
NC	Pin Not Connected Internally

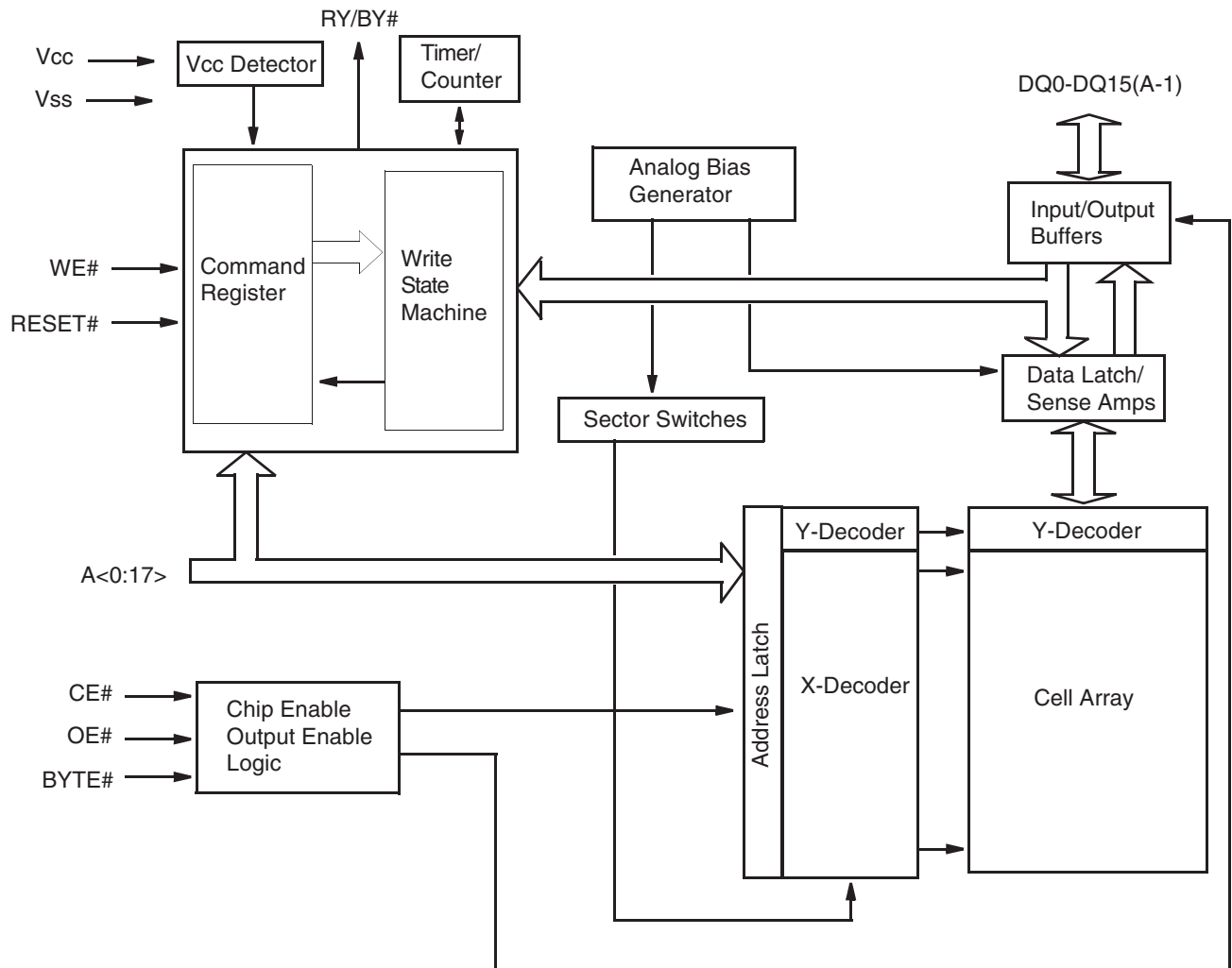
LOGIC SYMBOL



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -29

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

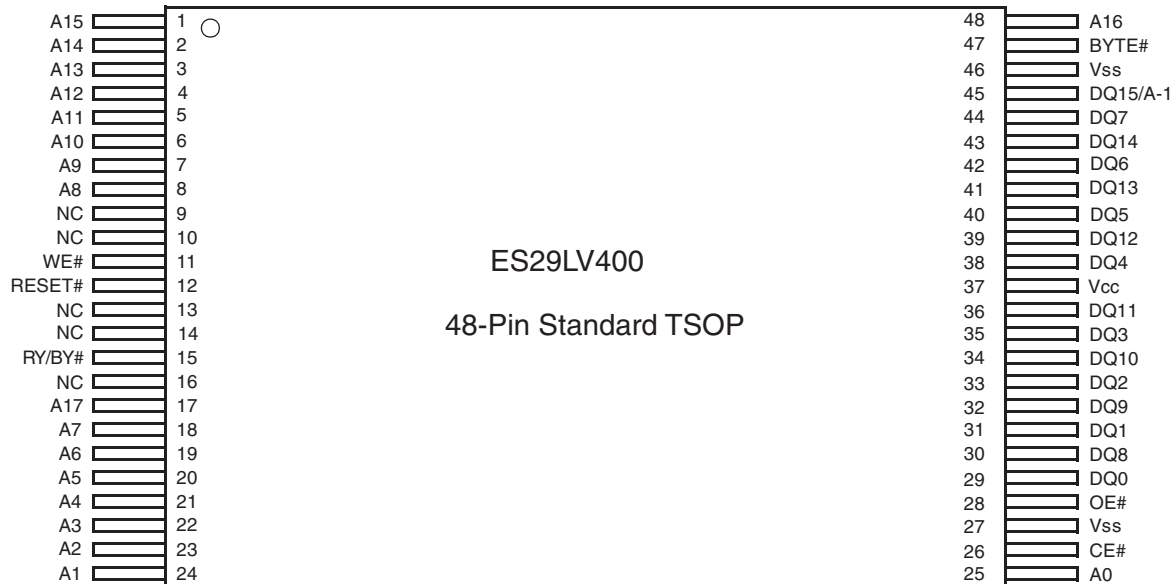
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -30

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

PIN CONFIGURATION



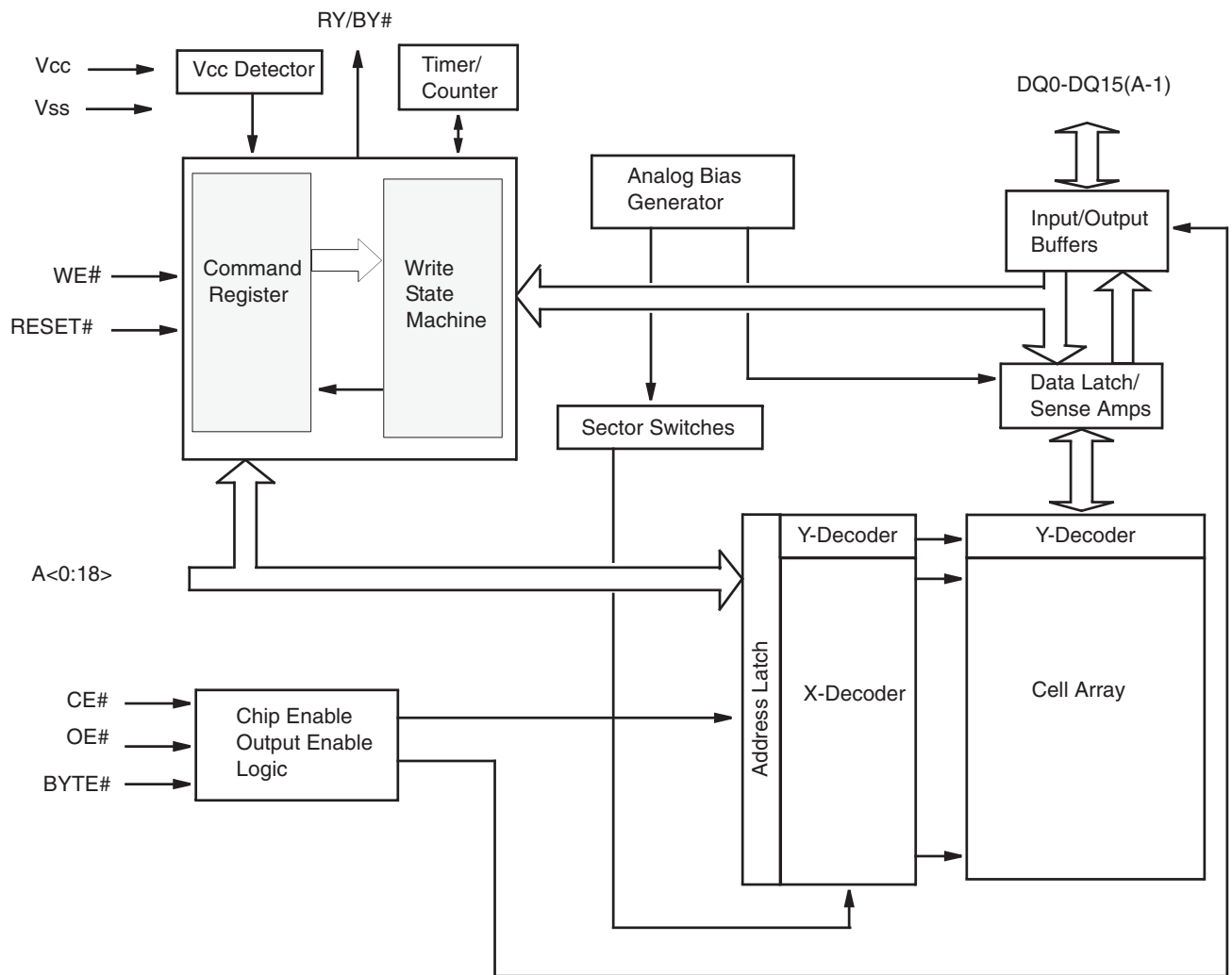
TERMINAL DESCRIPTION

Terminal	Description
A0-A17	18 Addresses
DQ0-DQ14	15 Data Inputs/Outputs
DQ15/A-1	DQ15 (Data Input/Output, Word Mode) 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 (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 -31

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

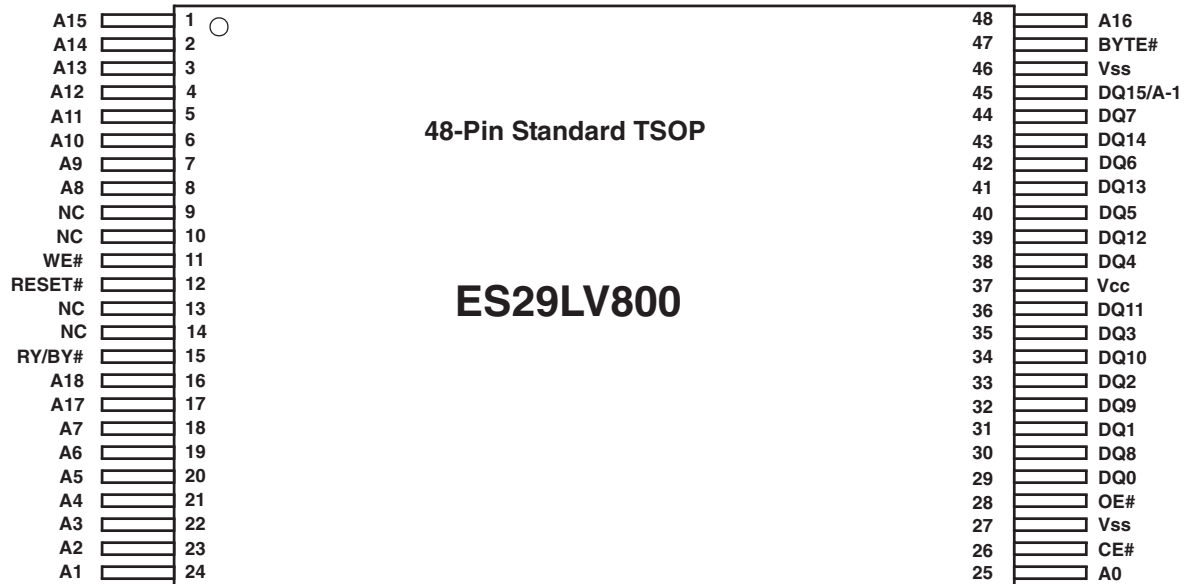
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -32

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

PIN CONFIGURATION



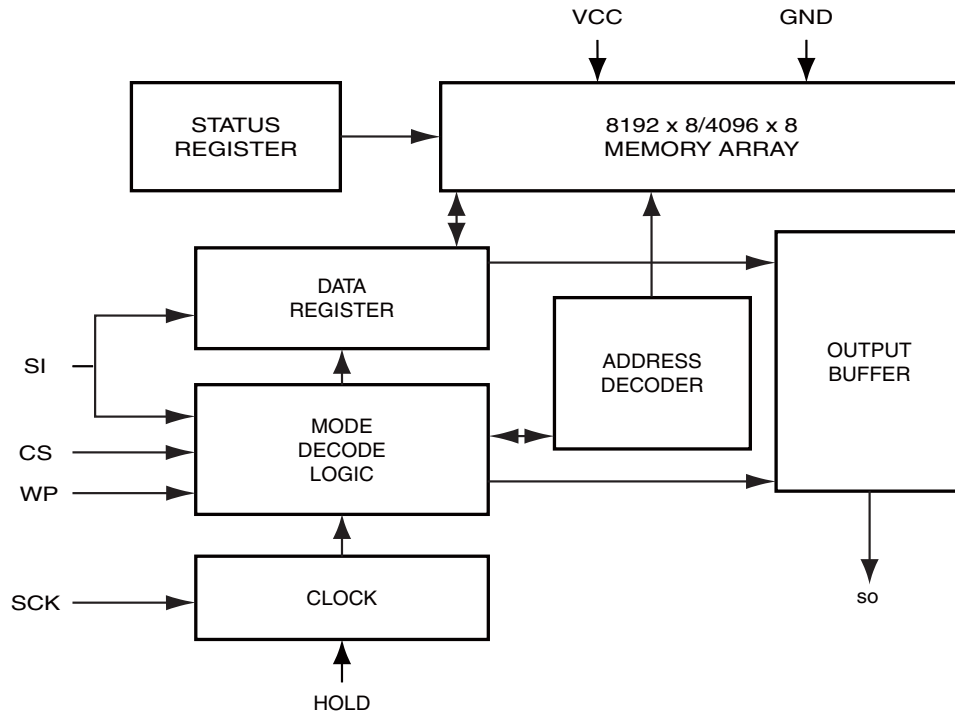
TERMINAL DESCRIPTION

Pin	Description
A0-A18	19 Addresses
DQ0-DQ14	15 Data Inputs/Outputs
DQ15/A-1	DQ15 (Data Input/Output, Word Mode) 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 (see Product Selector Guide for speed options and voltage supply tolerances)
Vss	Device Ground
NC	Pin Not Connected Internally

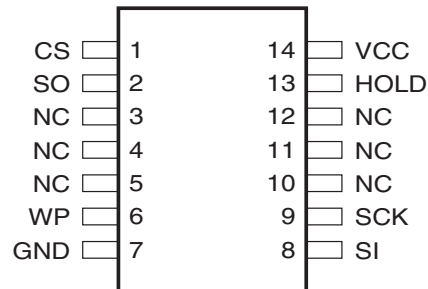
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -33

Q7391: IS25C64A(64kbit EEPROM)

BLOCK DIAGRAM



PIN CONFIGURATION



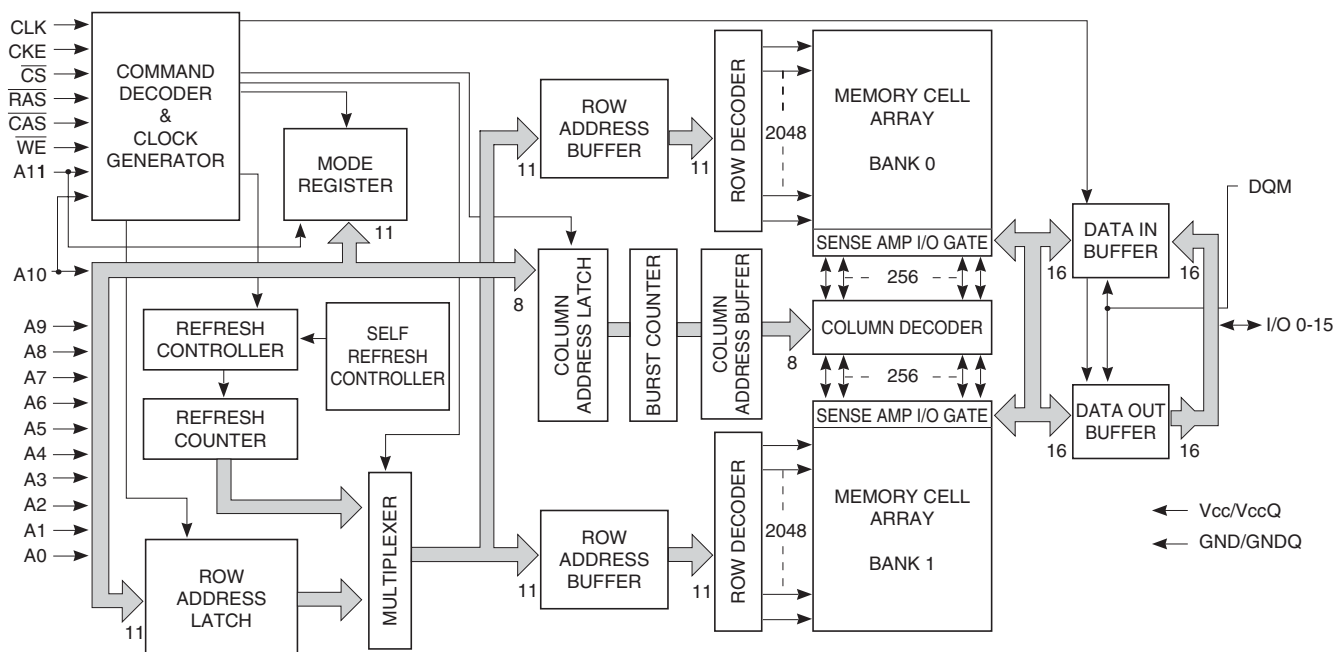
TERMINAL DESCRIPTION

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

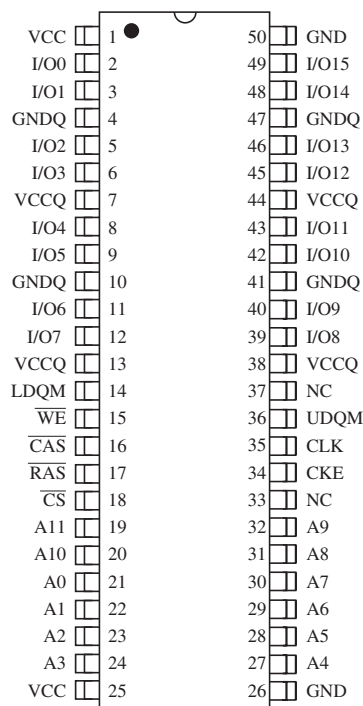
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -34

Q3461, Q3471, Q3561: IC42S16100 (16-Mbit Synchronous Dynamic RAM)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -35

Q3461, Q3471, Q3561: IC42S16100 (16-Mbit Synchronous Dynamic RAM)

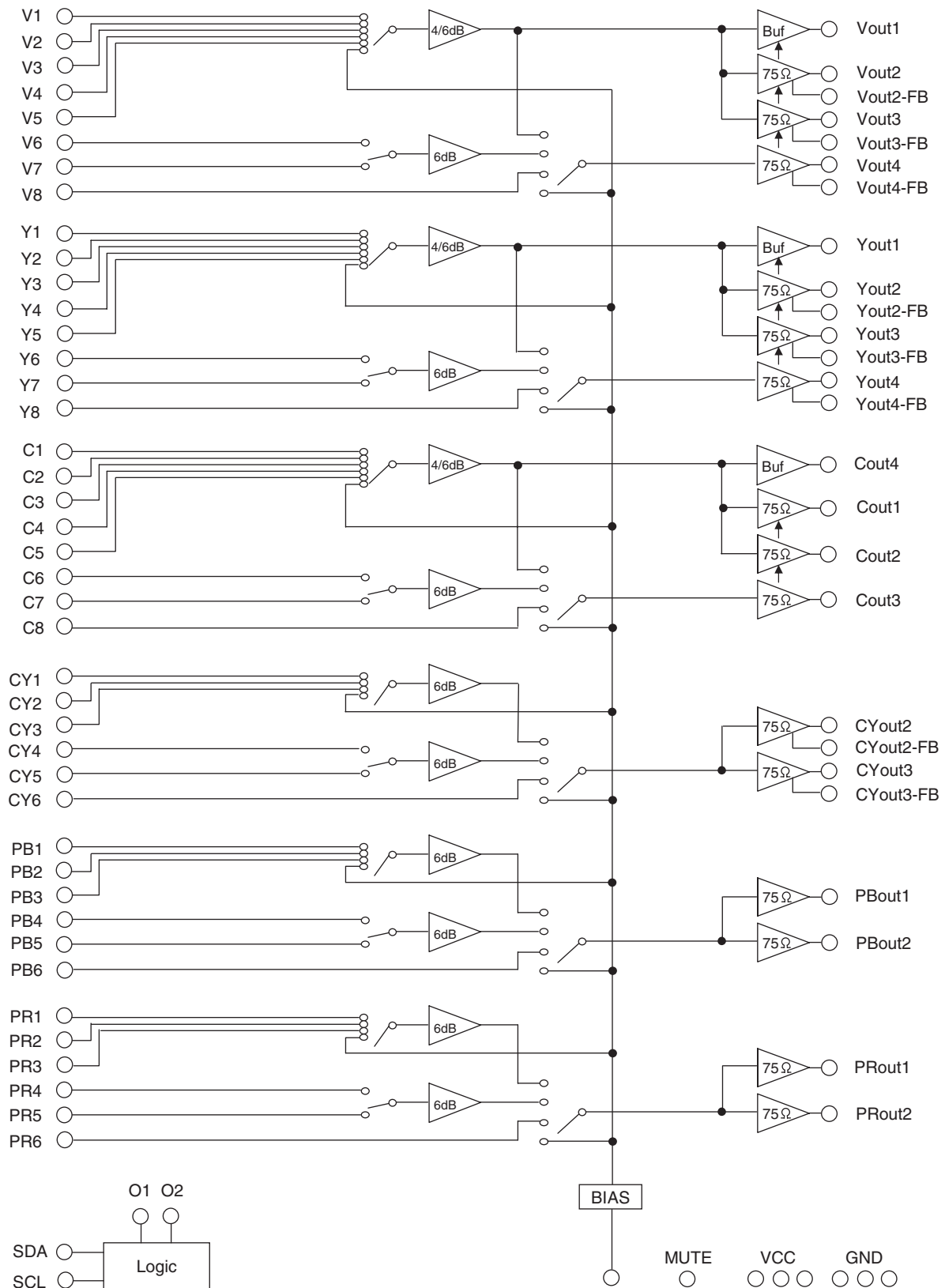
TERMINAL DESCRIPTION

Pin No.	Pin name	Function (In Detail)
20 to 24 27 to 32	A0-A10	A0 to A10 are address inputs. A0-A10 are used as row address inputs during active command input and A0-A7 as column address inputs during read or write command input. A10 is also used to determine the precharge mode during other commands. If A10 is LOW during precharge command, the bank selected by A11 is precharged, but if A10 is HIGH, both banks will be precharged. When A10 is HIGH in read or write command cycle, the precharge starts automatically after the burst access. These signals become part of the OP CODE during mode register set command input.
19	A11	A11 is the bank selection signal. When A11 is LOW, bank 0 is selected and when high, bank 1 is selected. This signal becomes part of the OP CODE during mode register set command input.
16	$\overline{\text{CAS}}$	$\overline{\text{CAS}}$, in conjunction with the $\overline{\text{RAS}}$ and $\overline{\text{WE}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
34	CKE	The CKE input determines whether the CLK input is enabled within the device. When is CKE HIGH, the next rising edge of the CLK signal will be valid, and when LOW, invalid. When CKE is LOW, the device will be in either the power-down mode, the clock suspend mode, or the self refresh mode. The CKE is an asynchronous input.
35	CLK	CLK is the master clock input for this device. Except for CKE, all inputs to this device are acquired in synchronization with the rising edge of this pin.
18	$\overline{\text{CS}}$	The $\overline{\text{CS}}$ input determines whether command input is enabled within the device. Command input is enabled when $\overline{\text{CS}}$ is LOW, and disabled with $\overline{\text{CS}}$ is HIGH. The device remains in the previous state when $\overline{\text{CS}}$ is HIGH.
2, 3, 5, 6, 8, 9, 11, 12, 39, 40, 42, 43, 45, 46, 48, 49	I/O0 to I/O15	I/O0 to I/O15 are I/O pins. I/O through these pins can be controlled in byte units using the LDQM and UDQM pins.
14, 36	LDQM, UDQM	LDQM and UDQM control the lower and upper bytes of the I/O buffers. In read mode, LDQM and UDQM control the output buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and when HIGH, disabled. The outputs go to the HIGH impedance state when LDQM/UDQM is HIGH. This function corresponds to $\overline{\text{OE}}$ in conventional DRAMs. In write mode, LDQM and UDQM control the input buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and data can be written to the device. When LDQM or UDQM is HIGH, input data is masked and cannot be written to the device.
17	$\overline{\text{RAS}}$	$\overline{\text{RAS}}$, in conjunction with $\overline{\text{CAS}}$ and $\overline{\text{WE}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
15	$\overline{\text{WE}}$	$\overline{\text{WE}}$, in conjunction with $\overline{\text{RAS}}$ and $\overline{\text{CAS}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
7, 13, 38, 44	VccQ	VccQ is the output buffer power supply.
1, 25	Vcc	Vcc is the device internal power supply.
4, 10, 41, 47	GNDQ	GNDQ is the output buffer ground.
26, 50	GND	GND is the device internal ground.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -36

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -37

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

TERMINAL DESCRIPTION (1/3)

Pin No.	Pin name	Type	Description
1	Y3	In	Luminance signal input 3
2	Y4	In	Luminance signal input 4
3	Y5	In	Luminance signal input 5
4	Y6	In	Luminance signal input 6
5	Y7	In	Luminance signal input 7
6	Y8	In	Luminance signal input 8
7	VCC1	Power supply	5.0V power supply
8	C1	In	Chrominance signal input 1
9	C2	In	Chrominance signal input 2
10	C3	In	Chrominance signal input 3
11	C4	In	Chrominance signal input 4
12	C5	In	Chrominance signal input 5
13	GND1	Ground	Ground
14	C6	In	Chrominance signal input 6
15	C7	In	Chrominance signal input 7
16	C8	In	Chrominance signal input 8
17	BIAS	Output	Bias voltage
18	CY1	In	CY1 signal input
19	CY2	In	CY2 signal input
20	CY3	In	CY3 signal input
21	CY4	In	CY4 signal input
22	CY5	In	CY5 signal input
23	CY6	In	CY6 signal input
24	PB1	In	PB1 signal input
25	PB2	In	PB2 signal input
26	PB3	In	PB3 signal input
27	PB4	In	PB4 signal input
28	PB5	In	PB5 signal input
29	PB6	In	PB6 signal input
30	PR1	In	PR1 signal input
31	PR2	In	PR2 signal input
32	PR3	In	PR3 signal input
33	PR4	In	PR4 signal input
34	PR5	In	PR5 signal input
35	PR6	In	PR6 signal input

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -38**Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)****TERMINAL DESCRIPTION (2/3)**

Pin No.	Pin name	Type	Description
36	MUTE	In	Mute control pin
37	PROUT2	Out	PROUT2 signal output
38	O1	Out	General output 1
39	PROUT1	Out	PROUT1 signal output
40	O2	Out	General output 2
41	PBOUT2	Out	PBOUT2 signal output
42	PBOUT1	Out	PBOUT1 signal output
43	GND2	Ground	Ground
44	CYOUT3-FB	In	CYOUT3 feedback input
45	CYOUT3	Out	CYOUT3 signal output
46	CYOUT2-FB	In	CYOUT2 feedback input
47	CYOUT2	Out	CYOUT2 signal output
48	COUT4	Out	COUT4 signal output
49	VCC2	Power supply	5.0V power supply
50	COUT3	Out	COUT3 signal output
51	COUT2	Out	COUT2 signal output
52	COUT1	Out	COUT1 signal output
53	GND3	Ground	Ground
54	YOUT4-FB	In	YOUT4 feedback input
55	YOUT4	Out	YOUT4 signal output
56	YOUT3-FB	In	YOUT3 feedback input
57	YOUT3	Out	YOUT3 signal output
58	YOUT2-FB	In	YOUT2 feedback input
59	YOUT2	Out	YOUT2 signal output
60	YOUT1	Out	YOUT1 signal output
61	VCC3	Power supply	5.0V power supply
62	VOOUT4-FB	In	VOOUT4 feedback input
63	VOOUT4	Out	VOOUT4 signal output
64	SDA	In	I ² C bus data input
65	VOOUT3-FB	In	VOOUT3 feedback input
66	VOOUT3	Out	VOOUT3 signal output
67	VOOUT2-FB	In	VOOUT2 feedback input
68	VOOUT2	Out	VOOUT2 signal output
69	VOOUT1	Out	VOOUT1 signal output
70	SCL	In	I ² C bus clock input

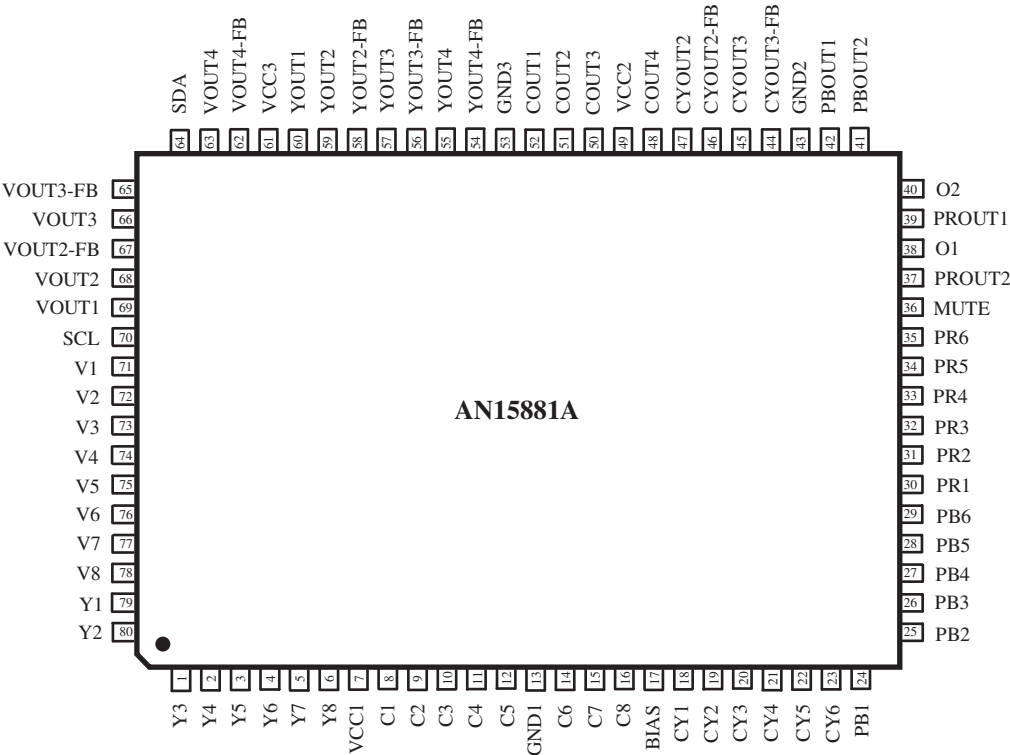
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -39

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

TERMINAL DESCRIPTION (3/3)

Pin No.	Pin name	Type	Description
71	V1	In	Video composite signal input 1
72	V2	In	Video composite signal input 2
73	V3	In	Video composite signal input 3
74	V4	In	Video composite signal input 4
75	V5	In	Video composite signal input 5
76	V6	In	Video composite signal input 6
77	V7	In	Video composite signal input 7
78	V8	In	Video composite signal input 8
79	Y1	In	Luminance signal input 1
80	Y2	In	Luminance signal input 2

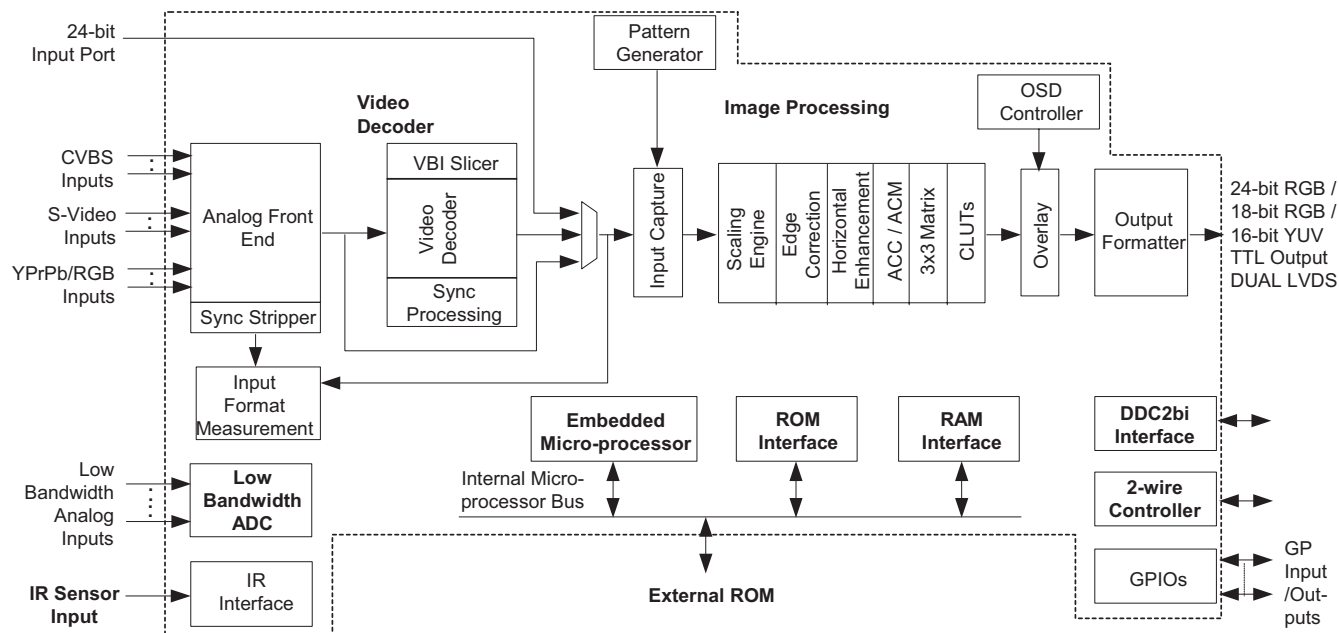
PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -40

Q8001: FLI8125-LF-BC (Video Processor)

BLOCK DIAGRAM



FEATURES

INTEGRATED TRIPLE ADC

- RGB / YPbPr support up to 135MHz
- SCART – RGB + Fast Blank support
- Interlaced and progressive scan
- External OSD support

DIGITAL INPUT PORT

- 24-bit re-configurable input port

INTEGRATED 2D VIDEO DECODER

- Worldwide NTSC/PAL/SECAM support
- Macrovision / VCR trick mode support

EMBEDDED MICROPROCESSOR

- Turbo 186 core
- Internal RAM / ROM
- Serial Flash / Parallel ROM support
- 2-wire slave controller, UART / JTAG support
- Internal RESET Controller
- GPIOs , Low Bandwidth ADC – 6 input
- Infra-red Interface

SCALING ENGINE

- Independent H & V scaling factors
- 4:2:2 YPbPr or 4:4:4 RGB scaling
- Anamorphic scaling (non-linear)

FAROUDJA DCDI – EDGE™

- Edge Correction
 - Eliminates objectionable stair casing
 - Enhances clarity and realism
- Horizontal Enhancement
- Adaptive Contrast and Color
- Active Color Management

DIGITAL OUTPUT

- 18/24-bit 85Mhz TTL output
- Dual LVDS up to SXGA
- Energy Spectrum Management for reducing EMI
- Programmable CLUT for gamma correction

OSD CONTROLLER

- Up to 4 windows: 1, 2 or 4-bits per pixel color
- Programmable Font scalar to meet Teletext requirements.

VBI SLICER

- V-Chip, Closed Captioning, XDS, CGMS, WSS decode
- Teletext 1.5 support

JTAG SUPPORT

- Boundary Scan support

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -41

PIN CONFIGURATION

GENESIS
DISPLAY PERFECTION

FLI8125

	1	156
VDDA33_LBADC	2	155
LBADC_IN1	3	154
LBADC_IN2	4	153
LBADC_IN3	5	152
LBADC_IN4	6	151
LBADC_IN5	7	150
LBADC_IN6	8	149
LBADC_RTn	9	148
VSAA33_LBADC	10	147
RESETn	11	146
GND_RPLL	12	145
VDD_RPLL_18	13	144
VBUFC_RPLL	14	143
AGND_RPLL	15	142
XTAL	16	141
TCLK	17	140
AVDD_RPLL_33	18	139
CVDD_1.8	19	138
CRVSS	20	137
TEST	21	136
GPIO15	22	135
JTAG_BS_Enn	23	134
SCART16	24	133
HOST_SCLK	25	132
HOST_SDATA	26	131
DDC_SCLK	27	130
DDC_SDATA	28	129
CVDD_1.8	29	128
CRVSS	30	127
MSTR_SCLK	31	126
MSTR_SDATA	32	125
RVDD_3.3	33	124
CRVSS	34	123
GPIO0/TCK	35	122
GPIO2/TMS	36	121
GPIO3/TRST	37	120
GPI06/IRin	38	119
CVDD_1.8	39	118
CRVSS	40	117
GPIO7/IRQin	41	116
GPI08/IRQout	42	115
GPI09/SIFC_SCLK	43	114
GPI010/SIFC_SDATA/A18	44	113
CVDD_1.8	45	112
CRVSS	46	111
GPI011/PWM0	47	110
GPI012/PWM1	48	109
RVDD_3.3	49	108
CRVSS	50	107
GPI013/PWM2	51	106
GPI014/PWM3/SCART16	52	105

53	PBIAS
54	PPWR
55	TDO
56	AVDD_LV_33
57	VCO_LV_33
58	AVSS_LV_33
59	AVDD_OUT_LV_33
60	CHP3_LV_ER0
61	CHN_LV_ER1
62	CLKP_LV_ER2
63	CLKN_LV_ER3
64	CH2P_LV_ER4
65	CH2N_LV_ER5
66	CH1P_LV_ER6
67	CH1N_LV_ER7
68	CH0N_LV_ER8
69	CH0N_LV_ER9
70	AVSS_OUT_LV_33
71	AVDD_OUT_LV_33
72	CH3P_LV_OG2
73	CH8N_LV_OG3
74	CLKP_LV_OG4
75	CLKN_LV_OG5
76	CH2P_LV_OG6
77	CH2N_LV_OG7
78	CH1P_LV_OG8
79	CH1N_LV_OG9
80	CH0P_LV_OG2
81	CH0N_LV_OG3
82	AVSS_OUT_LV_33
83	AVDD_OUT_LV_33
84	CVDD_1.8
85	CRVSS
86	PD20/B4/GPI00
87	PD21/B5/GPI01
88	PD22/B6/GPI02
89	PD23/B7/GPI03
90	DEN
91	DHS
92	DVS
93	DCLK
94	ROM_SC5N/ROM_CS
95	ROM_SCLK/AT17
96	ROM_SDOO/AT16
97	ROM_SDIR/ROM_AT15
98	RVDD_3.3
99	CRVSS
100	ADC_CLAMPA15
101	XOSD_CLK/A14/PD38
102	XOSD_HS/A13/PD37
103	XOSD_VSA12/PD36
104	XOSD_FLD/A11/PD35

HSYNC1
CRVSS
RVDD_3.3
VID_CLK_1
VID_DATA_IN_15/GPIO23
VID_DATA_IN_14/GPIO22
VID_DATA_IN_13/GPIO21
VID_DATA_IN_12/GPIO20
VID_DATA_IN_11/GPIO19
VID_DATA_IN_10/GPIO18
VID_DATA_IN_9/GPIO17
VID_DATA_IN_8/GPIO16
CRVSS
CVDD_1.8
VID_DATA_IN_7
VID_DATA_IN_6
VID_DATA_IN_5
VID_DATA_IN_4
VID_DATA_IN_3
VID_DATA_IN_2
VID_DATA_IN_1
VID_DATA_IN_0
CRVSS
CVDD_1.8
VID_DATA_IN_23/D7/PD46
VID_DATA_IN_22/D6/PD45
VID_DATA_IN_21/D5/PD44
VID_DATA_IN_20/D4/PD43
VID_DATA_IN_19/D3/PD42
CRVSS
CVDD_1.8
VID_DATA_IN_18/D2/PD41
VID_DATA_IN_17/D1/PD40
VID_DATA_IN_16/D0/PD39
GPI05/MIDIN_HS
GPI05/MIDIN_VS
CRVSS
CVDD_1.8
VID_CLK2/ROM_OEN/PD47
CRVSS
RVDD_3.3
VID_DE/FLD/A0/PD24
A1/PD25
A2/PD26
A3/PD27
A4/PD28
A5/PD29
A6/PD30
A7/PD31
A8/PD32
A9/PD33
A10/PD34

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -42

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(1/8)

Analog Input Port

Pin Name	No.	I/O	Description
VDD18_AB	158	AP	Analog Power (1.8V) for A & B Channels. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
NC	159		No Connection. Leave this pin open for normal operation.
GND18_C	160	AG	Analog Ground (1.8V Return) for C channel. Must be directly connected to the analog system ground plane on board.
VDD18_C	161	AP	Analog Power (1.8V) for C Channel. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
ADC_TEST	162	O	Analog Front End Test O/P. Leave this Pin open. Used for factory testing purpose only.
AVDD_ADC	163	AP	Analog Power (3.3V) for ADC. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
AGND	164	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
AGND	165	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
SV1P	166	AI	Positive analog sync input for channel 1. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	167	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
A1P	168	AI	Positive analog input 'A' for channel 1. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	169	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
B1P	170	AI	Positive analog input 'B' for channel 1. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	171	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
C1P	172	AI	Positive analog input 'C' for channel 1. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
AVDD_A	173	AP	Analog Power (3.3V) for ADC of Channel-A. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
AN	174	AI	Negative analog input 'A' for channels 1 through 4. This acts as the return Path for the Sources connected to Channel-A Inputs. This has to be AC coupled using a series 57.6 Ohm resistor and 0.1uF Capacitor network to Analog Ground Plane on board.
AGND	175	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
SV2P	176	AI	Positive analog sync input for channel 2. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	177	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
A2P	178	AI	Positive analog input 'A' for channel 2. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	179	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
B2P	180	AI	Positive analog input 'B' for channel 2. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	181	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
C2P	182	AI	Positive analog input 'C' for channel 2. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
AVDD_B	183	AP	Analog Power (3.3V) for ADC of Channel-B. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
BN	184	AI	Negative analog input 'B' for channels 1 through 4. This acts as the return Path for the Sources connected to Channel-B Inputs. This has to be AC coupled using a series 57.6 Ohm resistor and 0.1uF Capacitor network to Analog Ground Plane on board.
AGND	185	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -43

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(2/8)

Analog Input Port

Pin Name	No.	I/O	Description
SV3P	186	AI	Positive analog sync input for channel 3. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	187	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
A3P	188	AI	Positive analog input 'A' for channel 3. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	189	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
B3P	190	AI	Positive analog input 'B' for channel 3. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	191	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
C3P	192	AI	Positive analog input 'C' for channel 3. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
AVDD_C	193	AP	Analog Power (3.3V) for ADC of Channel-C. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
CN	194	AI	Negative analog input 'C' for channels 1 through 4. This acts as the return Path for the Sources connected to Channel-C Inputs. This has to be AC coupled using a series 57.6 Ohm resistor and 0.1uF Capacitor network to Analog Ground Plane on board.
AGND	195	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
SV4P	196	AI	Positive analog sync input for channel 4. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	197	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
A4P	198	AI	Positive analog input 'A' for channel 4. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	199	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
B4P	200	AI	Positive analog input 'B' for channel 4. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
GNDS	201	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
C4P	202	AI	Positive analog input 'C' for channel 4. The input has to be AC coupled using a series 20 Ohm resistor and 0.1uF Capacitor network.
AVDD_SC	203	AP	Analog Power (3.3V) for ADC of SYNC Channel. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
SVN	204	AI	Negative analog sync input for channels 1 through 4. This acts as the return Path for the Sources connected to SV Channel Inputs. This has to be AC coupled using a series 57.6 Ohm resistor and 0.1uF Capacitor network to Analog Ground Plane on board.
VO_GND	205	AG	Analog Ground. Must be directly connected to the analog system ground plane on board.
VOOUT2	206	AO	Analog VOUT signal This is the Analog Video Output from the Decoder in the Composite Video format. This can be amplified and be fed to any video display device.
VDD18_SC	207	AP	Analog Power (1.8V) for SYNC Channel. Must be bypassed with 0.1uF capacitor to the analog system ground plane.
GND18_SC	208	AG	Analog Ground (1.8V Return) for SYNC channel. Must be directly connected to the analog system ground plane on board.

Low Bandwidth ADC Input Port

Pin Name	No	I/O	Description
VDDA33_LBADC	1	AP	Analog Power (3.3V) for Low Bandwidth ADC Block. Must be bypassed with 0.1uF capacitor.
LBADC_IN1	2	AI	Low Bandwidth Analog Input-1. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_IN2	3	AI	Low Bandwidth Analog Input-2. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_IN3	4	AI	Low Bandwidth Analog Input-3. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_IN4	5	AI	Low Bandwidth Analog Input-4. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_IN5	6	AI	Low Bandwidth Analog Input-5. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -44

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(3/8)

Low Bandwidth ADC Input Port

Pin Name	No	I/O	Description
			a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_IN6	7	AI	Low Bandwidth Analog Input-6. The Input signal connected to this Pin, must be bypassed with a 0.1uF capacitor and could be in the range of 0V to 3.3V (peak to peak).
LBADC_RTN	8	AG	This Pin provides the Return Path for LBADC inputs. Must be directly connected to the analog system ground plane on board.
VSSA33_LBADC	9	AG	Analog Ground for Low Bandwidth ADC Block. Must be directly connected to the analog system ground plane on board.

RCLK PLL Pins

Pin Name	No	I/O	Description
GND_RPLL	11	DG	Digital GND for ADC clocking circuit. Must be directly connected to the digital system ground plane.
VDD_RPLL_18	12	DP	Digital power (1.8V) for ADC digital logic. Must be bypassed with capacitor to Ground Plane.
VBUFC_RPLL	13	O	Test Output. Leave this Pin Open. This is reserved for Factory Testing Purpose.
AGND_RPLL	14	AG	Analog ground for the Reference DDS PLL. Must be directly connected to the analog system ground plane.
XTAL	15	AO	Crystal oscillator output. Connect to external crystal.
TCLK	16	AI	Reference clock (TCLK) from the 19.6608 MHz crystal oscillator. Connect to external crystal/ oscillator.
AVDD_RPLL_33	17	AP	Analog Power (3.3V) for RCLK PLL. Must be bypassed with 0.1uF capacitor.

Digital Video Input Port

Pin Name	No	I/O	Description
VID_CLK_1	153	I	Video port data clock input meant for Video Input – 1. Up to 135Mhz [Input, 5V-tolerant]
VIDIN_HS	122	I	When Video Input – 1 is in BT656 Mode, this Pin acts as Horizontal Sync Input for Video Input – 2. OR when Video Input – 1 is in 16 Bit Mode this Pin acts as Horizontal Sync Input for Video Input – 1. OR this Pin acts as Horizontal Sync Input for 24 Bit Video Input
VIDIN_VS	121	I	When Video Input – 1 is in BT656 Mode, this Pin acts as Vertical Sync Input for Video Input – 2. OR when Video Input – 1 is in 16 Bit Mode this Pin acts as Vertical Sync Input for Video Input – 1. OR this Pin acts as Vertical Sync Input for 24 Bit Video Input
VID_DATA_IN_0 VID_DATA_IN_1 VID_DATA_IN_2 VID_DATA_IN_3 VID_DATA_IN_4 VID_DATA_IN_5 VID_DATA_IN_6 VID_DATA_IN_7	135 136 137 138 139 140 141 142	IO	Input YUV data in 8-bit BT656 of Video Input – 1 [Bi-Directional, 5V-tolerant] OR Input Y Data in case of 16 Bit Video Input (CCIR601) of Video Input – 1 OR Input Green Data in case of 24 Bit Video Input
VID_DATA_IN_8 VID_DATA_IN_9 VID_DATA_IN_10 VID_DATA_IN_11 VID_DATA_IN_12 VID_DATA_IN_13 VID_DATA_IN_14 VID_DATA_IN_15	145 146 147 148 149 150 151 152	IO	Input Pr / Pb Data in case of 16 Bit Video Input (CCIR601) of Video Input – 1 OR Input Blue/ Pb Data in case of 24 Bit Video Input
VID_DATA_IN_16 VID_DATA_IN_17 VID_DATA_IN_18 VID_DATA_IN_19 VID_DATA_IN_20 VID_DATA_IN_21 VID_DATA_IN_22	123 124 125 128 129 130 131	IO	Input Red / Pr Data in case of 24 Bit Video Input OR Video Input – 2 in 8-bit with Embedded Sync / Separate Sync

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -45

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(4/8)

Digital Video Input Port

Pin Name	No	I/O	Description
VID_DATA_IN_23	132		
VID_CLK2	118	I	Video port data clock input meant for Video Input – 2. Up to 135Mhz [Input, 5V-tolerant]
VID_DE/FLD	115	I	Video Active Signal Input or the Field Signal Input from external Digital Video Source.

System Interface

Pin Name	No	I/O	Description
RESETn	10	I	Hardware Reset (active low) [Schmitt trigger, 5v-tolerant] Connect to ground with 0.01uF capacitor.
TEST	20	I	For normal mode of operation connect this Pin to Ground. Has an internal pulldown resistor of 50 K ohm.
GPIO15	21	IO	This pin is available as a general-purpose input/output port. Also it is optionally programmable to give out the external chip select signal meant for external SRAM. Connect pullup resistor to supply if external SRAM used. It is also address line A19 when 1MB parallel flash is used.
JTAG_BS_ENn	22	I	JTAG Boundary Scan enabling pin. Has an internal pulldown resistor of 50 K ohm. If this pin is left open or pulled down, Boundary Scan Mode is enabled. If this pin is pulled high, Boundary Scan functionality is not available, and pins 34~37 are available as GPIO 0~3
SCART16	23	I	This pin can be programmed to sense the Fast Blank Input signal from a SCART I/P source
HOST_SCLK	24	IO	Host input clock or 186 UART Data In or JTAG clock signal. [Input, Schmitt trigger, 5V-tolerant]
HOST_SDATA	25	IO	Host input data or 186 UART Data Out or JTAG mode signal. [Bi-directional, Schmitt trigger, slew rate limited, 5V-tolerant]
DDC_SCLK	26	IO	DDC2Bi clock for VGA Port
DDC_SDATA	27	IO	DDC2Bi data for VGA Port
MSTR_SCLK	30	O	Clock signal from Master Serial 2 Wire Interface Controller
MSTR_SDATA	31	IO	Data signal meant for Master Serial 2 Wire interface Controller
GPIO0/TCK	34	IO	This Pin accepts the Input Clock signal in case of Boundary Scan Mode. Else, this pin is available as General Purpose Input/output Port.
GPIO1/TDI	35	IO	This Pin accepts the Input Data signal in case of Boundary Scan Mode. Else, this pin is available as General Purpose Input/output Port.
GPIO2/TMS	36	IO	This Pin accepts the Input Test Mode Select signal in case of Boundary Scan Mode. Else, this pin is available as General Purpose Input/output Port.
GPIO3/TRST	37	IO	This Pin accepts the Boundary Scan Reset signal in case of Boundary Scan Mode. Else, this pin is available as General Purpose Input/output Port.
GPIO6/IRin	38	IO	Input from Infra Red Decoder can be connected to this Pin. Else, this pin is available as General Purpose Input/output Port.
GPIO7/IRQin	41	IO	Input Interrupt Request signal can be connected to this Pin. Else, this pin is available as General Purpose Input/output Port.
GPIO8/IRQout	42	IO	This Pin will give out the Interrupt Signal to interrupt external Micro. Else, this pin is available as General Purpose Input/output Port.
GPIO9/SIPC_SCLK	43	IO	This Pin accepts the Clock signal from External Serial 2 Wire interface Bus if FLI8125 is programmed to be in Slave mode. Else, this pin is available as General Purpose Input/output Port.
GPIO10/SIPC_SDATA/ A18	44	IO	This Pin acts as the Data I/O signal when used with External Serial 2 Wire interface Bus if FLI8125 is programmed to be in Slave mode. Or this Pin is programmable to give out Address line 18 from the Internal Micro when used with 512K External Memory. Else, this pin is available as General Purpose Input/output Port.
GPIO11/PWM0	47	IO	This Pin can be programmed to give out Pulse Width Modulated Output Pulses for external use. Else, this pin is available as General Purpose Input/output Port.
GPIO12/PWM1	48	IO	This Pin can be programmed to give out Pulse Width Modulated Output Pulses for external use. Else, this pin is available as General Purpose Input/output Port.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -46

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(5/8)

System Interface

Pin Name	No	I/O	Description
GPIO13/PWM2	51	IO	This Pin can be programmed to give out Pulse Width Modulated Output Pulses for external use. Else, this pin is available as General Purpose Input/output Port.
GPIO14/PWM3/SCART16	52	IO	This Pin can be programmed to give out Pulse Width Modulated Output Pulses for external use. Or it can be programmed to sense the Fast Blank Input signal from a SCART I/P source. Else, this pin is available as General Purpose Input/output Port.
TDO	55	O	This Pin provides the Output Data in case of Boundary Scan Mode.
HSYNC1	156	I	Horizontal Sync signal Input-1. Used when Analog RGB component signal carries separate HSYNC signal. Has programmable Schmitt trigger.
VSYNC1	157	I	Vertical Sync signal Input-1. Used when Analog RGB component signal carries separate VSYNC signal. Has programmable Schmitt trigger.
XOSD_CLK	101	O	Clock Output meant for External OSD Controller
XOSD_HS	102	O	Horizontal Sync Output meant for External OSD Controller
XOSD_VS	103	O	Vertical Sync Output meant for External OSD Controller
XOSD_FLD	104	O	Field Signal Output meant for External OSD Controller
PD20/B4/GPIO0 PD21/B5/GPIO1 PD22/B6/GPIO2 PD23/B7/GPIO3	86 87 88 89	IO	These Pins provide the Panel Data as shown in the TTL Display Interface Table below. These are available as General Purpose Input / Output Pins when not used as Panel Data.

LVDS Display Interface

Pin Name	No	I/O	Description
PBIAS	53	O	Panel Bias Control (backlight enable) [Tri-state output, 5V- tolerant]
PPWR	54	O	Panel Power Control [Tri-state output, 5V- tolerant]
AVDD_LV_33	56	DP	Digital Power for LVDS Block. Connect to digital 3.3V supply.
VCO_LV	57	O	Reserved. Output for Testing Purpose only at Factory.
AVSS_LV	58	G	Ground for LVDS outputs.
AVDD_OUT_LV_33	59	DP	Digital Power for LVDS outputs. Connect to digital 3.3V supply.
CH3P_LV_E	60	O	These form the Differential Data Output for Channel – 3 (Even).
CH3N_LV_E	61	O	
CLKP_LV_E	62	O	These form the Differential Clock Output Even Channel.
CLKN_LV_E	63	O	
CH2P_LV_E	64	O	These form the Differential Data Output for Channel – 2 (Even).
CH2N_LV_E	65	O	
CH1P_LV_E	66	O	These form the Differential Data Output for Channel – 1 (Even).
CH1N_LV_E	67	O	
CH0P_LV_E	68	O	These form the Differential Data Output for Channel – 0 (Even).
CH0N_LV_E	69	O	
AVSS_OUT_LV	70	G	Ground for LVDS outputs.
AVDD_OUT_LV_33	71	DP	Digital Power for LVDS outputs. Connect to digital 3.3V supply.
CH3P_LV_O	72	O	These form the Differential Data Output for Channel – 3 (Odd).
CH3N_LV_O	73	O	
CLKP_LV_O	74	O	These form the Differential Clock Output Odd Channel.
CLKN_LV_O	75	O	
CH2P_LV_O	76	O	These form the Differential Data Output for Channel – 2 (Odd).
CH2N_LV_O	77	O	
CH1P_LV_O	78	O	These form the Differential Data Output for Channel – 1 (Odd).
CH1N_LV_O	79	O	
CH0P_LV_O	80	O	These form the Differential Data Output for Channel – 0 (Odd).
CH0N_LV_O	81	O	

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -47

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(6/8)

LVDS Display Interface

Pin Name	No	I/O	Description
AVSS_OUT_LV	82	G	Ground for LVDS outputs.
AVDD_OUT_LV_33	83	DP	Digital Power for LVDS outputs. Connect to digital 3.3V supply.

TTL Display Interface

Pin Name	No	I/O	Description For 8-bit panels	For 6-bit panels
PBIAS	53	O	Panel Bias Control (backlight enable) [Tri-state output, 5V- tolerant]	
PPWR	54	O	Panel Power Control [Tri-state output, 5V- tolerant]	
AVDD_LV_33	56	DP	Digital Power for TTL Block. Connect to digital 3.3V supply.	
VCO_LV	57	O	Reserved. Output for Testing Purpose only at Factory.	
AVSS_LV	58	G	Ground for TTL outputs.	
AVDD_OUT_LV_33	59	DP	Digital Power for TTL outputs. Connect to digital 3.3V supply.	
R0	60	O	Red channel bit 0 (Even)	Not used.
R1	61	O	Red channel bit 1 (Even)	Not used.
R2	62	O	Red channel bit 2 (Even)	Red channel bit 0 (Even)
R3	63	O	Red channel bit 3 (Even)	Red channel bit 1 (Even)
R4	64	O	Red channel bit 4 (Even)	Red channel bit 2 (Even)
R5	65	O	Red channel bit 5 (Even)	Red channel bit 3 (Even)
R6	66	O	Red channel bit 6 (Even)	Red channel bit 4 (Even)
R7	67	O	Red channel bit 7 (Even)	Red channel bit 5 (Even)
G0	68	O	Green channel bit 0 (Even)	Not used.
G1	69	O	Green channel bit 1 (Even)	Not used.
AVSS_OUT_LV	70	G	Ground for TTL outputs.	
AVDD_OUT_LV_33	71	DP	Digital Power for TTL outputs. Connect to digital 3.3V supply.	
G2	72	O	Green channel bit 2 (Even)	Green channel bit 0 (Even)
G3	73	O	Green channel bit 3 (Even)	Green channel bit 1 (Even)
G4	74	O	Green channel bit 4 (Even)	Green channel bit 2 (Even)
G5	75	O	Green channel bit 5 (Even)	Green channel bit 3 (Even)
G6	76	O	Green channel bit 6 (Even)	Green channel bit 4 (Even)
G7	77	O	Green channel bit 7 (Even)	Green channel bit 5 (Even)
B0	78	O	Blue channel bit 0 (Even)	Not used.
B1	79	O	Blue channel bit 1 (Even)	Not used.
B2	80	O	Blue channel bit 2 (Even)	Blue channel bit 0 (Even)
B3	81	O	Blue channel bit 3 (Even)	Blue channel bit 1 (Even)
AVSS_OUT_LV	82	G	Ground for TTL outputs.	
AVDD_OUT_LV_33	83	DP	Digital Power for TTL outputs. Connect to digital 3.3V supply.	
PD20/B4	86	O	Blue channel bit 4 (Even)	Blue channel bit 2 (Even)
PD21/B5	87	O	Blue channel bit 5 (Even)	Blue channel bit 3 (Even)
PD22/B6	88	O	Blue channel bit 6 (Even)	Blue channel bit 4 (Even)
PD23/B7	89	O	Blue channel bit 7 (Even)	Blue channel bit 5 (Even)
DEN	90	O	Display Data Enable	
DHS	91	O	Display Horizontal Sync.	
DVS	92	O	Display Vertical Sync.	
DCLK	93	O	Display Pixel Clock	
PD24	115	O	Red channel bit 0 (Odd)	Not used.
PD25	114	O	Red channel bit 1 (Odd)	Not used.
PD26	113	O	Red channel bit 2 (Odd)	Red channel bit 0 (Odd)
PD27	112	O	Red channel bit 3 (Odd)	Red channel bit 1 (Odd)

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -48

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(7/8)

TTL Display Interface

Pin Name	No	I/O	Description For 8-bit panels	For 6-bit panels
PD28	111	O	Red channel bit 4 (Odd)	Red channel bit 2 (Odd)
PD29	110	O	Red channel bit 5 (Odd)	Red channel bit 3 (Odd)
PD30	109	O	Red channel bit 6 (Odd)	Red channel bit 4 (Odd)
PD31	108	O	Red channel bit 7 (Odd)	Red channel bit 5 (Odd)
PD32	107	O	Green channel bit 0 (Odd)	Not used.
PD33	106	O	Green channel bit 1 (Odd)	Not used.
PD34	105	O	Green channel bit 2 (Odd)	Green channel bit 0 (Odd)
PD35	104	O	Green channel bit 3 (Odd)	Green channel bit 1 (Odd)
PD36	103	O	Green channel bit 4 (Odd)	Green channel bit 2 (Odd)
PD37	102	O	Green channel bit 5 (Odd)	Green channel bit 3 (Odd)
PD38	101	O	Green channel bit 6 (Odd)	Green channel bit 4 (Odd)
PD39	123	O	Green channel bit 7 (Odd)	Green channel bit 5 (Odd)
PD40	124	O	Blue channel bit 0 (Odd)	Not used.
PD41	125	O	Blue channel bit 1 (Odd)	Not used.
PD42	128	O	Blue channel bit 2 (Odd)	Blue channel bit 0 (Odd)
PD43	129	O	Blue channel bit 3 (Odd)	Blue channel bit 1 (Odd)
PD44	130	O	Blue channel bit 4 (Odd)	Blue channel bit 2 (Odd)
PD45	131	O	Blue channel bit 5 (Odd)	Blue channel bit 3 (Odd)
PD46	132	O	Blue channel bit 6 (Odd)	Blue channel bit 4 (Odd)
PD47	118	O	Blue channel bit 7 (Odd)	Blue channel bit 5 (Odd)

Parallel/Serial ROM/ SRAM Interface

Pin Name	No	I/O	Description
A19	21	O	Address Signal A19 for 1M X 8 PROM. This pin also acts as Chip select for external SRAM when PROM of 512KB or less is used. Else this pin acts as GPIO15.
A18	44	O	Address Signal A18 for 512K X 8 PROM / SRAM. Else this pin acts as GPIO10.
A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0	95 96 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	O	256K x8 PROM /SRAM Address. Some of these pins also have bootstrap functionality. For serial SPI ROM interface: - ROM_ADDR17 will be Serial Clock (ROM_SCLK) - ROM_ADDR16 will be Serial Data Output (ROM_SDO)
D7 D6 D5 D4 D3 D2 D1 D0	132 131 130 129 128 125 124 123	IO	External PROM / SRAM data input.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -49

Q8001: FLI8125-LF-BC (Video Processor)

TERMINAL DESCRIPTION(8/8)

Parallel/Serial ROM/ SRAM Interface

ROM_OEN	118	O	External PROM / SRAM data Output Enable.
ROM_SDI/ ROM_WEN	97	O	External PROM / SRAM data Write Enable (for In-System-Programming of FLASH) or Serial Data Input (SDI) for SPI ROM interface.
ROM_SCSN/ ROM_CSN	94	O	External PROM / SRAM data Chip Select or Serial PROM Chip Select (ROM_SCSN) for SPI ROM interface.

Digital Power and Ground

Pin Name	No	I/O	Description
RVDD_3.3	32 49 98 116 154	P	Ring VDD. Connect to digital 3.3V.
CVDD_1.8	18 28 39 45 84 119 126 133 143	P	Core VDD. Connect to digital 1.8V.
CRVSS	19 29 33 40 46 50 85 99 117 120 127 134 144 155	G	Chip ground for core and ring.

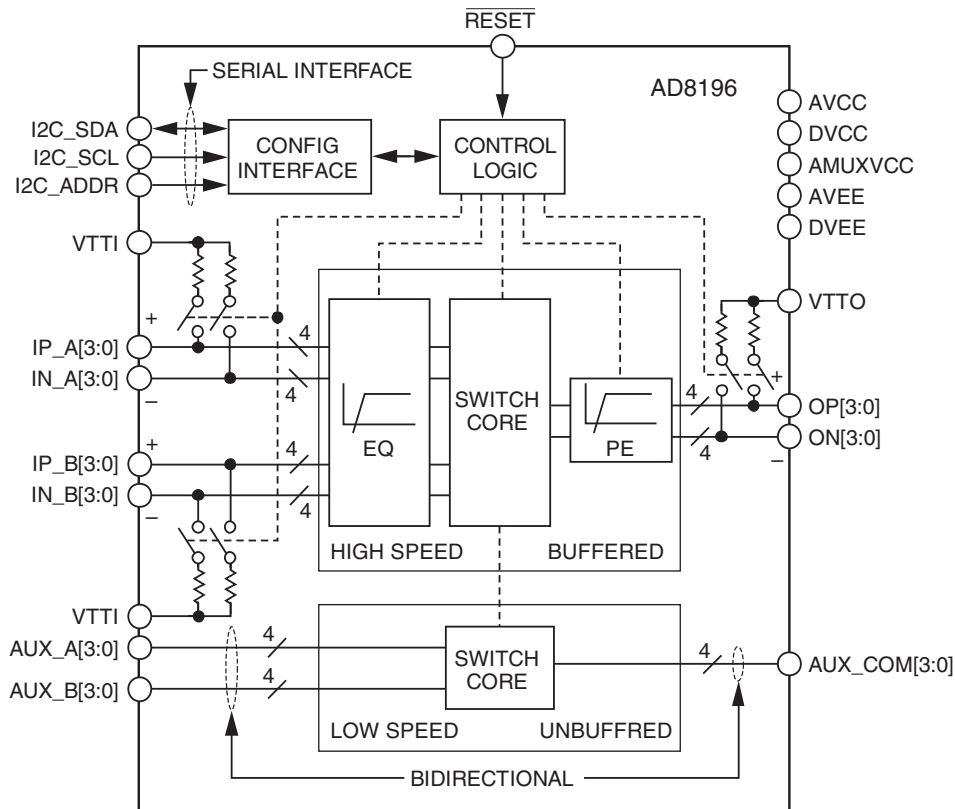
JTAG Boundary Scan

Pin Name	No	I/O	Description
TCK	34	I	JTAG Boundary Scan TCK signal
TDO	55	O	JTAG Boundary Scan TDO signal
TDI	35	I	JTAG Boundary Scan TDI signal. Pad has internal 50K pull-up resistor.
TMS	36	I	JTAG Boundary Scan TMS signal. Pad has internal 50K pull-up resistor.
TRST	37	I	JTAG Boundary Scan RST signal. Pad has internal 50K pull-up resistor.

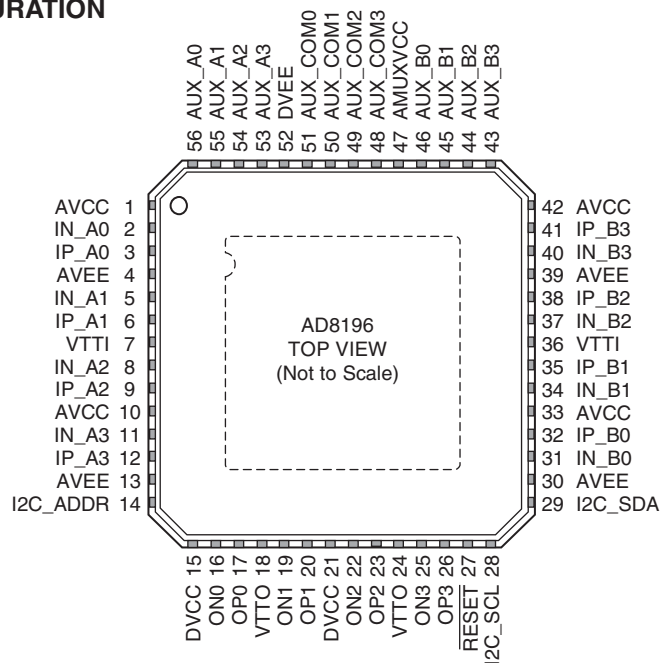
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -50

Q8101 : AD8196 (HDMI/DVI Switch with Equalization)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -51

Q8101 : AD8196 (HDMI/DVI Switch with Equalization)

TERMINAL DESCRIPTION

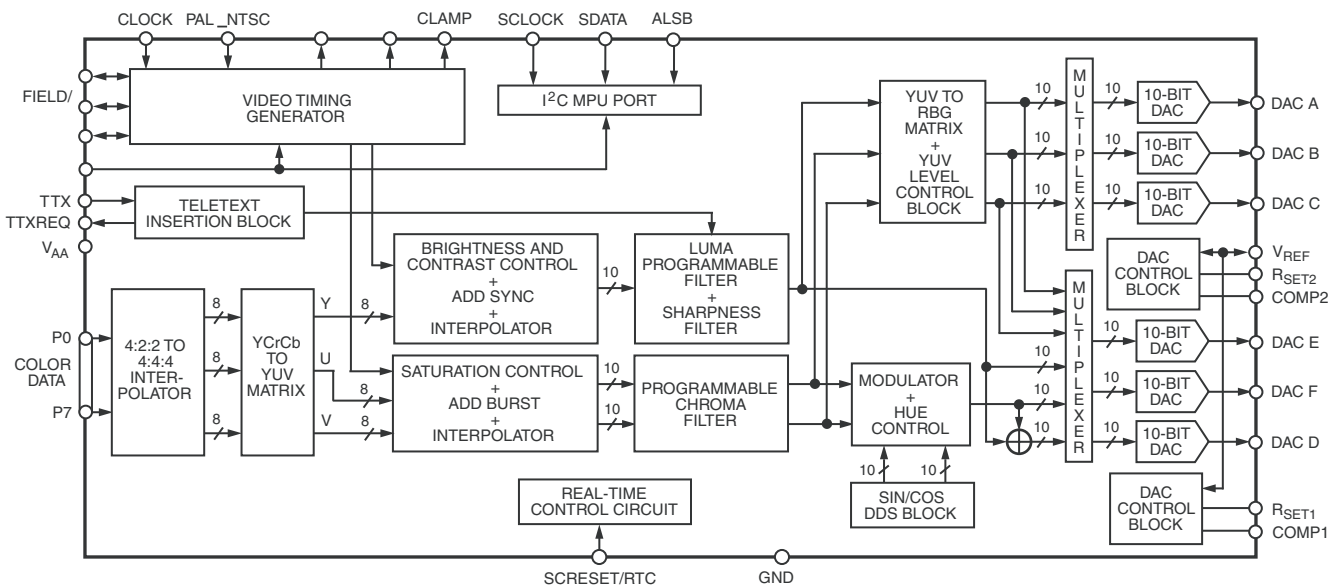
Pin No.	Mnemonic	Type	Description
1, 10, 33, 42	AVCC	Power	Positive Analog Supply. 3.3 V nominal.
2	IN_A0	HS I	High Speed Input Complement.
3	IP_A0	HS I	High Speed Input.
4, 13, 30, 39, ePAD	AVEE	Power	Negative Analog Supply. 0 V nominal.
5	IN_A1	HS I	High Speed Input Complement.
6	IP_A1	HS I	High Speed 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 ² 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 ² C Clock.
29	I2C_SDA	Control	I ² 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.

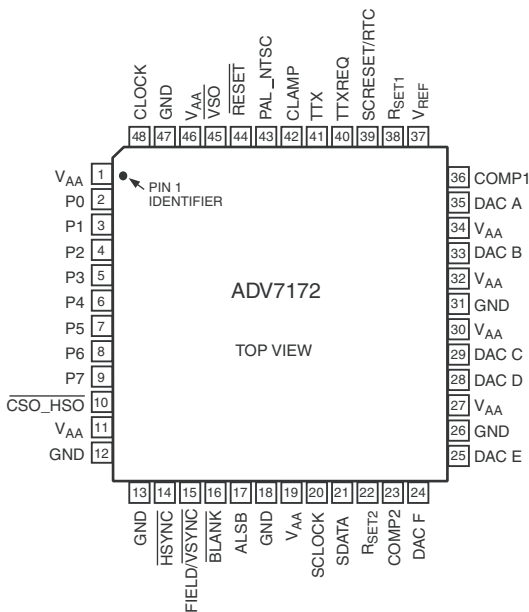
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -52

Q8801: ADV7172 (Digital PAL/NTSC Video Encoder with six DACs)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -53

Q8801: ADV7172 (Digital PAL/NTSC Video Encoder with six DACs)

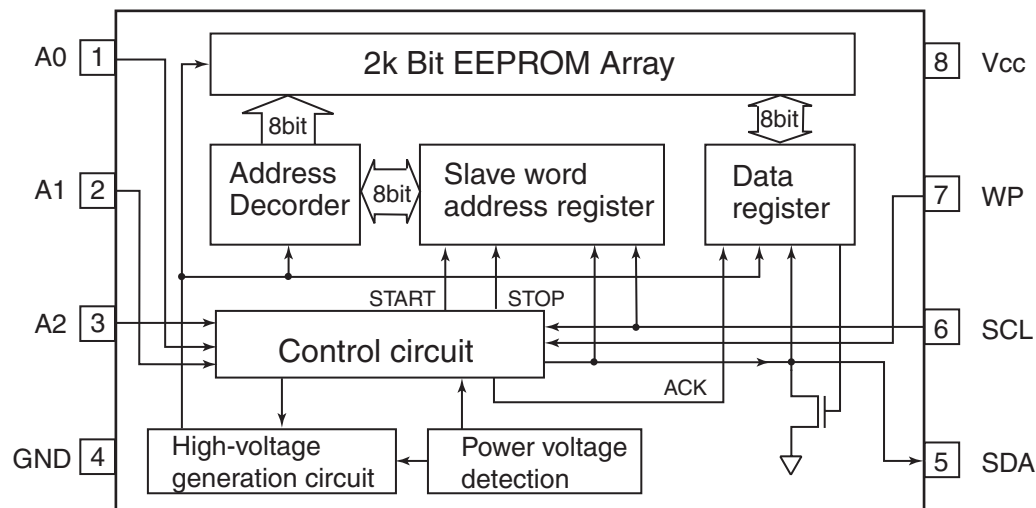
TERMINAL DESCRIPTION

Mnemonic	Input/Output	Function
P7–P0	I	8-Bit 4:2:2 Multiplexed YCrCb Pixel Port (P7ÐP0) P0 represents the LSB.
CLOCK	I	TTL Clock Input. Requires a stable 27 MHz reference clock for standard operation. Alternatively, a 24.5454 MHz (NTSC) or 29.5 MHz (PAL) can be used for square pixel operation.
HSYNC	I/O	HSYNC (Modes 1 and 2) Control Signal. This pin may be configured to output (Master Mode) or as an input and accept (Slave Mode) Sync signals.
FIELD/VSYNC	I/O	Dual Function FIELD (Mode 1) and VSYNC (Mode 2) Control Signal. This pin may be configured to output (Master Mode) or as an input (Slave Mode) and accept these control signals.
BLANK	I/O	Video Blanking Control Signal. The pixel inputs are ignored when this is Logic Level "0." This signal is optional.
SCRESET/RTC	I	This pin can be configured as an input by setting MR42 and MR41 of Mode Register 4. It can be configured as a subcarrier reset pin, in which case a low-to-high transition on this pin will reset the subcarrier phase to Field 0. Alternatively it may be configured as a Real-Time Control (RTC) Input.
V _{REF}	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
R _{SET1}	I	A 150 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs A, B, and C (the "large" DACs).
R _{SET2}	I	A 600 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs D, E, and F (the "small" DACs).
COMP1	O	Compensation Pin for DACs A, B, and C. Connect a 0.1 μ F Capacitor from COMP to V _{AA} . For Optimum Dynamic Performance in Low Power Mode, the value of the COMP1 capacitor can be lowered to as low as 2.2 nF.
COMP2	O	Compensation Pin for DACs D, E, and F. Connect a 0.1 μ F Capacitor from COMP to V _{AA} .
DAC A	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 34.66 mA output.
DAC B	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 34.66 mA output.
DAC C	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 34.66 mA output.
DAC D	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 8.66 mA output.
DAC E	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 8.66 mA output.
DAC F	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 8.66 mA output.
SCLOCK	I	MPU Port Serial Interface Clock Input.
SDATA	I/O	MPU Port Serial Data Input/Output.
CLAMP	O	TTL Output Signal to external circuitry to enable clamping of all video signals.
PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation, pin set to Logic "1" selects PAL.
VSO	O	VSO TTL Output Sync Signal.
CSO_HSO	O	Dual Function CSO or HSO TTL Output Sync Signal.
ALSB	I	TTL Address Input. This signal sets up the LSB of the MPU address.
RESET	I	The input resets the on-chip timing generator and sets the ADV7172/ADV7173 into default mode. This is NTSC operation, Timing Slave Mode 0, DACs A, B, and C powered OFF, DACs D, E, and F powered ON, Composite and S-Video out.
TTX	I	Teletext Data Input Pin.
TTXREQ	O	Teletext Data Request output signal used to control teletext data transfer.
V _{AA}	I	Power Supply (3 V to 5 V).
GND	G	Ground Pin.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -54

Q8210, Q8510, Q8610: BR24L02FV-W(256x8 bit EEPROM)

BLOCK DIAGRAM AND PIN CONFIGURATION



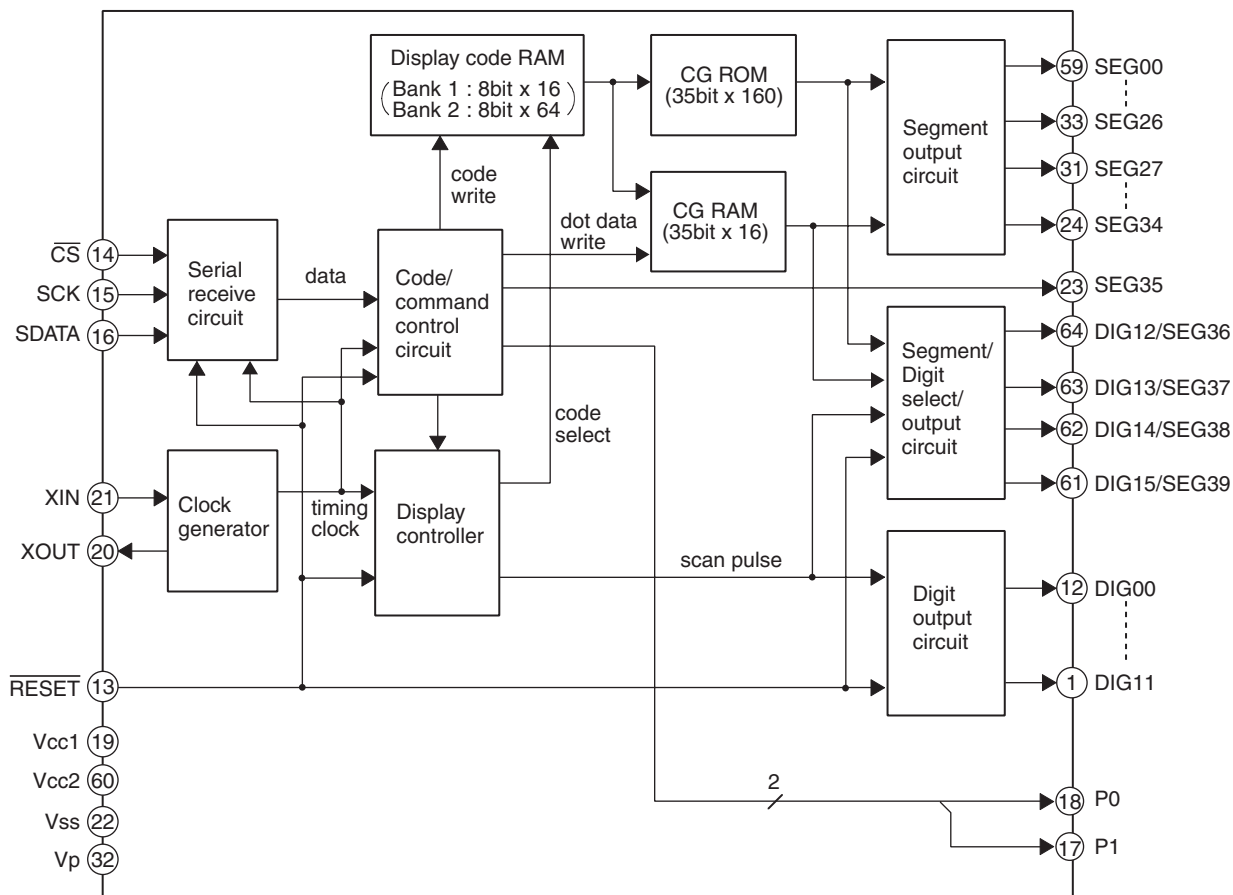
TERMINAL DESCRIPTION

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. Serial data input and output
WP	I	Write protect terminal

IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS -55

Q7003: M66005-0001AHP (FL Tube Driver)

BLOCK DIAGRAM



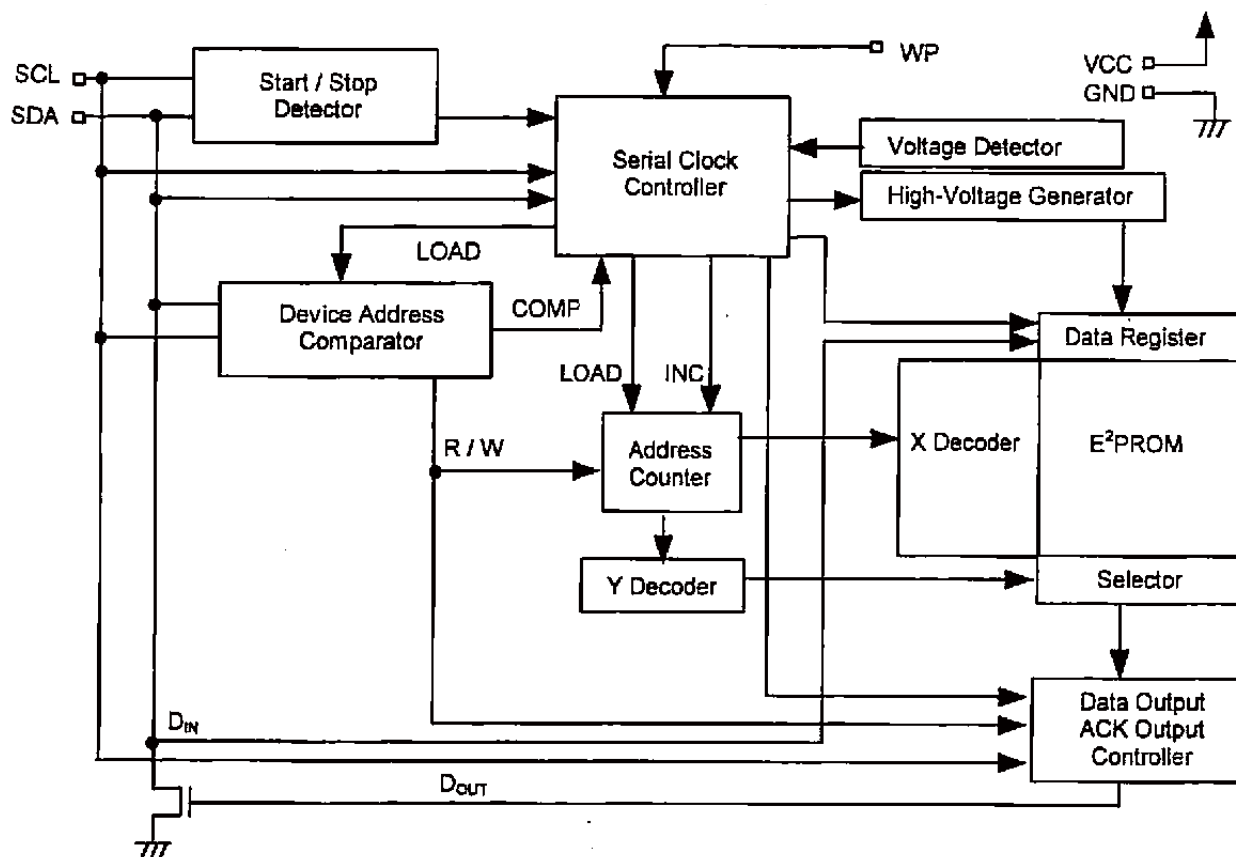
TERMINAL DESCRIPTION

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. "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 Clock output	This pin is used to connect a resister and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 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.

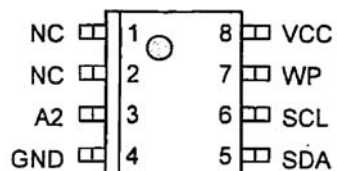
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -56

Q8010: S-24CS16A01 (16 kbit EEPROM)

BLOCK DIAGRAM



PIN CONFIGURATION



TERMINAL DESCRIPTION

Pin Number	Pin Name	Function
1	NC	No connection ^{*1}
2	NC	No connection ^{*1}
3	A2	TEST pin ^{*2}
4	GND	Ground
5	SDA	Serial data input / output
6	SCL	Serial clock input
7	WP	Write protection input Connected to V _{CC} : Protection valid Connected to GND: Protection invalid
8	VCC	Power supply

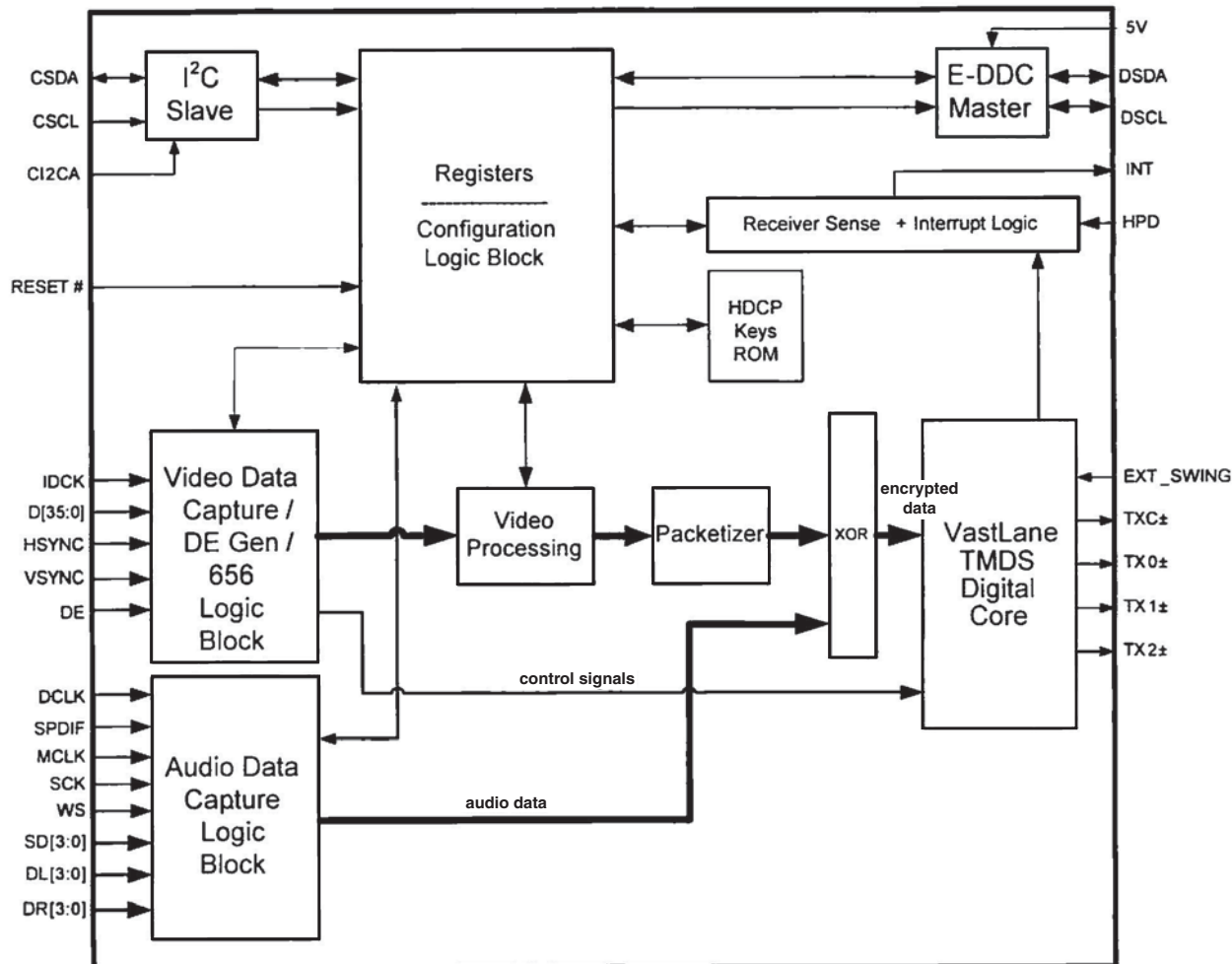
*1. Connect to GND or V_{CC}.

*2. Connect to GND.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -57

Q8401: SII9134CTU (HDMI TRANSMITTER)

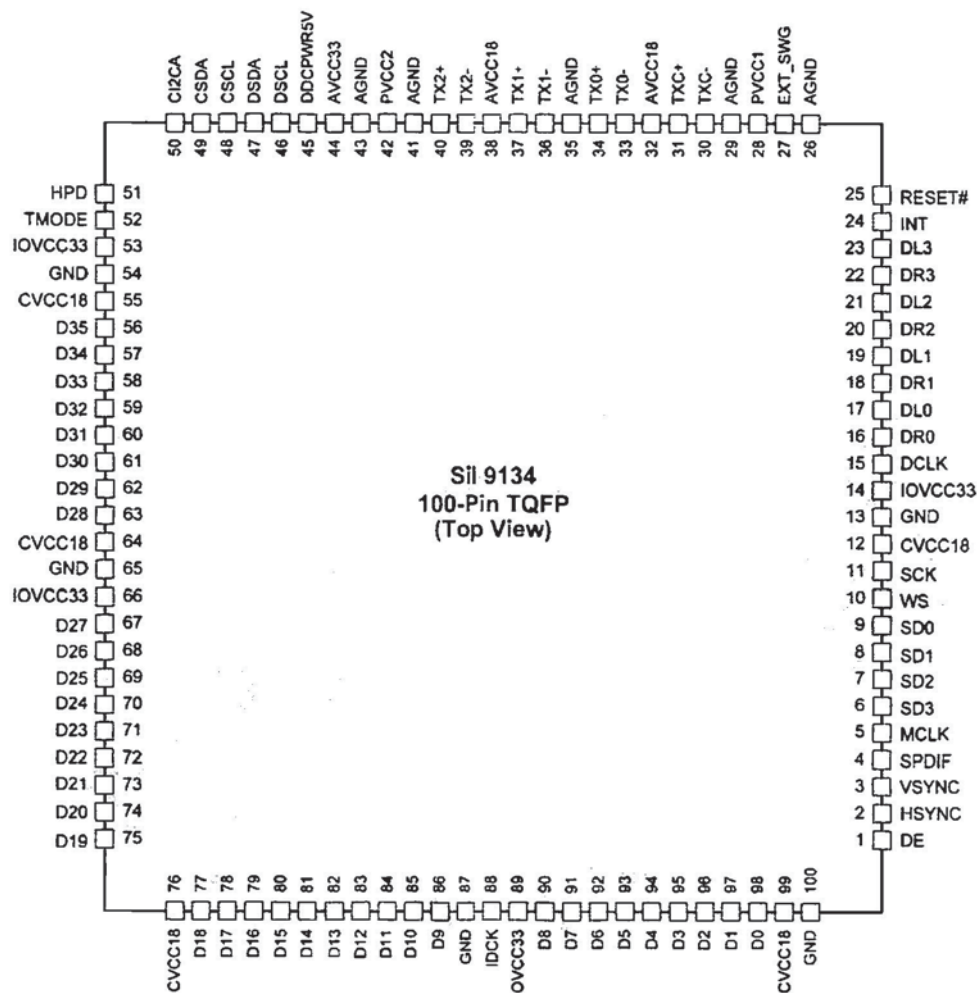
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -58

Q8401: 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 ² C device address select (see page 11)
RESET#	25	LVTTL Schmitt	Input	Reset Pin (Active LOW) 5V Tolerant
CSCL	48	Schmitt	Input	I ² C Clock
CSDA	49	Schmitt- Open Drain	Bi-Di	I ² C Data (Open drain output.)
DSDL	46	Schmitt- Open Drain	Bi-Di	DDC Clock (Open Drain Output)
DSDA	47	Schmitt- Open Drain	Bi-Di	DDC Data (Open drain output.)

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -59

Q8401: 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: 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 ² S Serial Clock
WS	10	LVTTL	Input	I ² S Word Select
SD0	9	LVTTL	Input	I ² S Serial Data
SD1	8	LVTTL	Input	I ² S Serial Data
SD2	7	LVTTL	Input	I ² S Serial Data
SD3	6	LVTTL	Input	I ² 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.

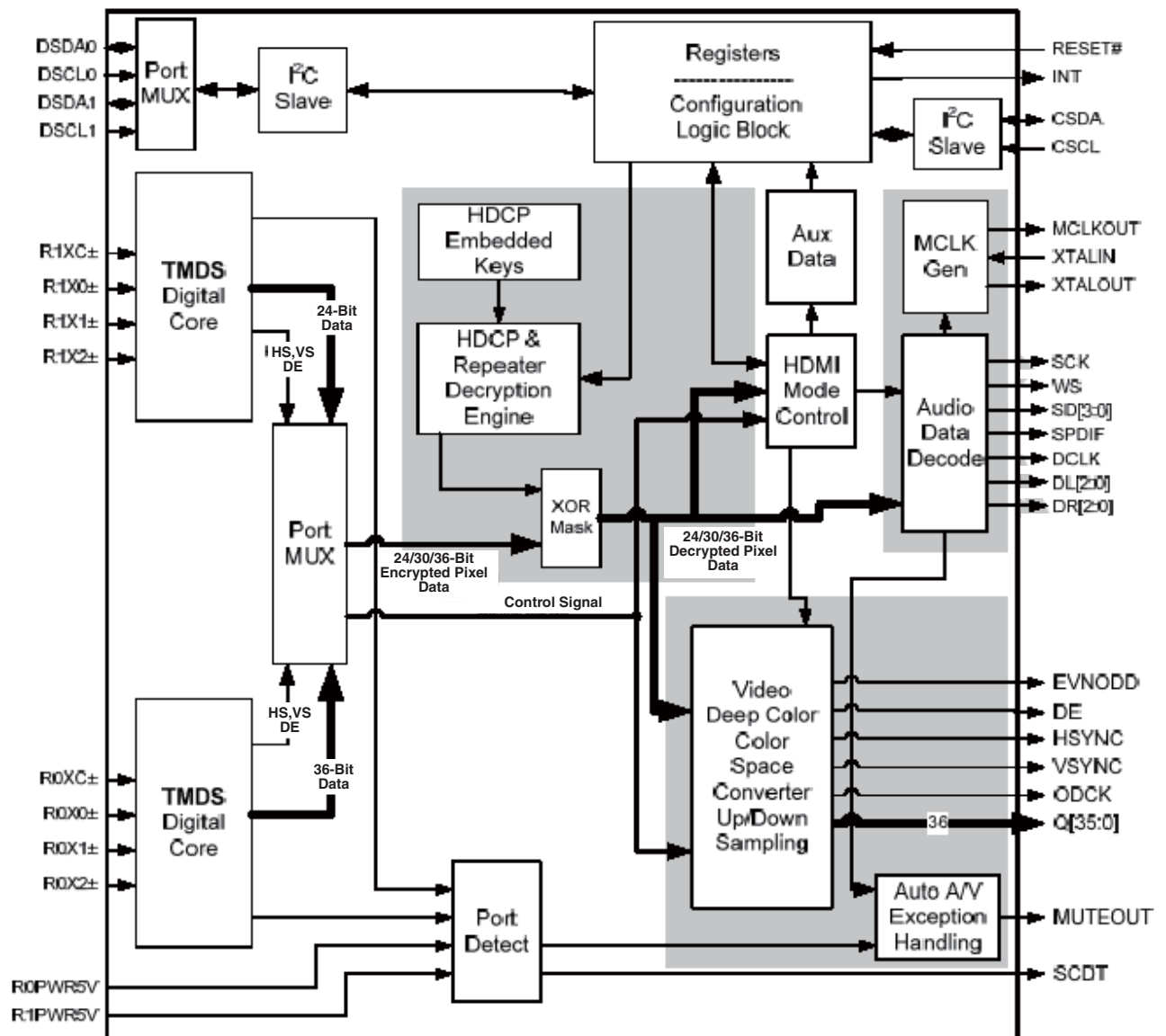
Differetial Signal Data Pins

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 Ω 1% when source termination and leakage bias is on and 845 Ω 1% when source termination and leakage bias is off.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -61

Q8501: SII9135CTU (HDMI RECEIVER)

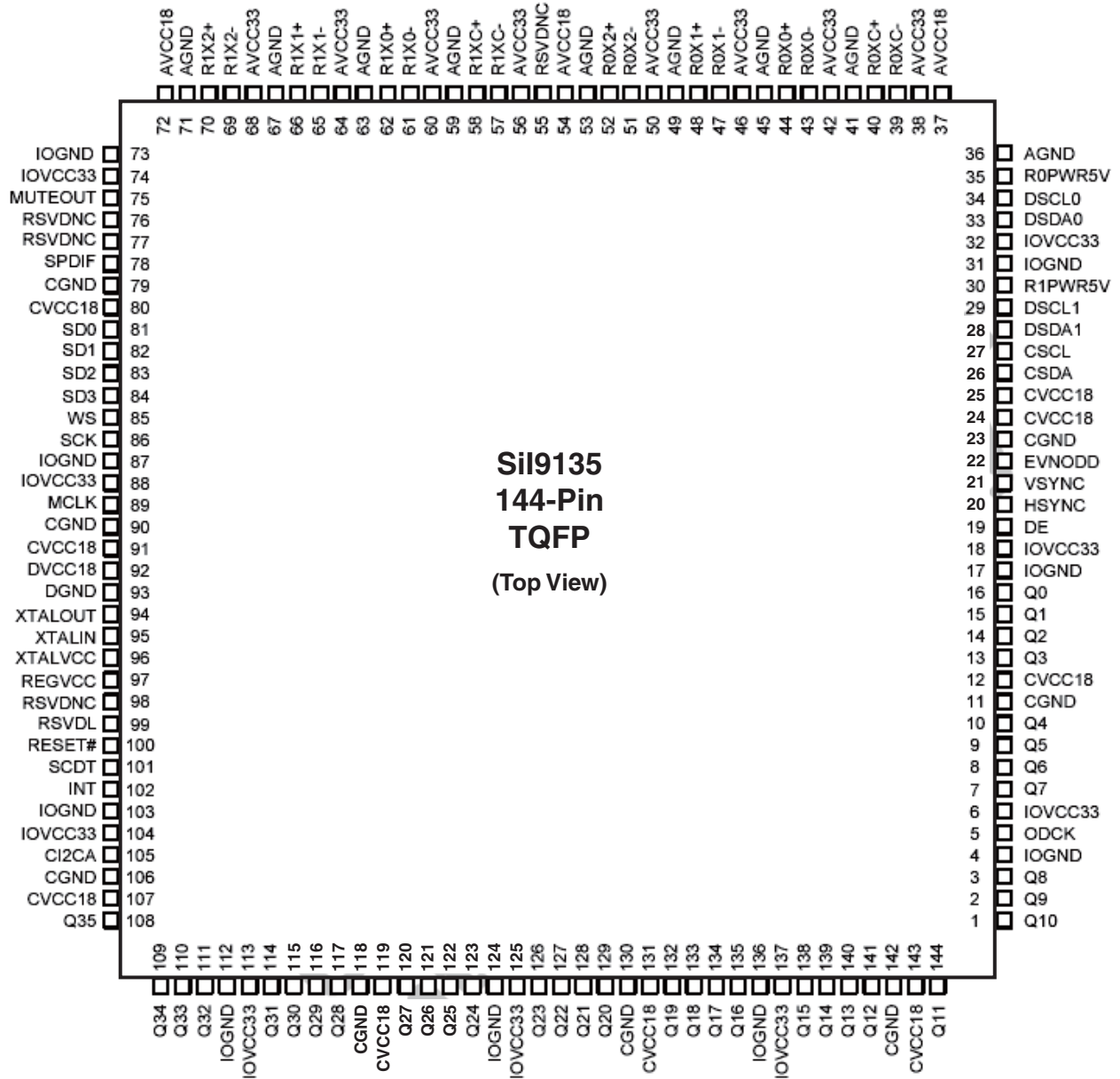
BLOCK DIAGRAM



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
VSYNC	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 Tolerant LVTTL	In	Crystal Clock Input. Also allows LVTTL input. 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. DSD Clock Out.
WS/DR0	85	4 mA	LVTTL	Out	I2S Word Select Output. DSD Serial Right Ch0 Data Output
SD0/DL0	81	4 mA	LVTTL	Out	I2S Serial Data Output / DSD Audio Output Configurable to be shared with DSD. SD0 = DSD Serial Left Ch0 Data Output SD1 = DSD Serial Right Ch1 Data Output 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 shared with DSD DSD Serial Left Ch2 Data Output
MUTEOUT	75	4 mA	LVTTL	Out	Mute Audio Output. Signal to the external downstream audio device, audio DAC, etc. to downstream audio device, audio DAC, etc. to 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 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

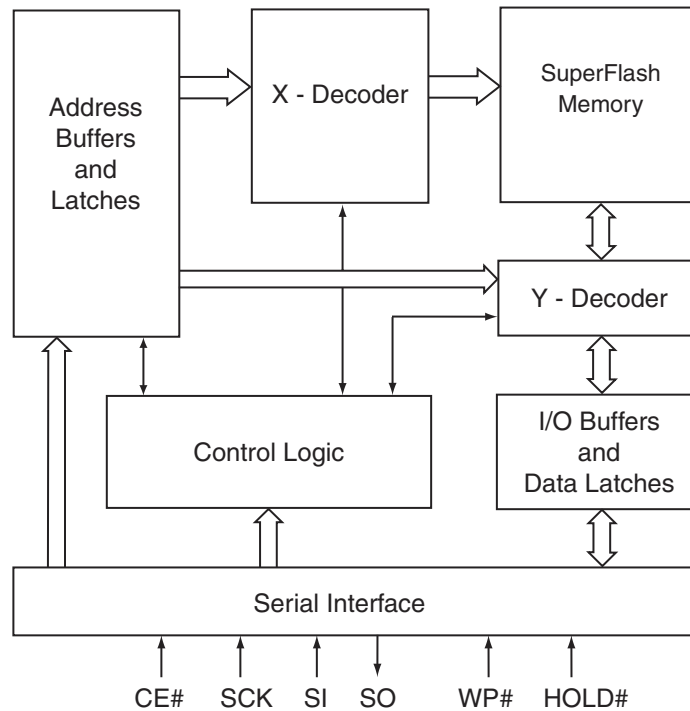
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -66**Q8501: SII9135CTU (HDMI RECEIVER)****TERMINAL DESCRIPTION(4/4)****Power and Ground Pins**

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

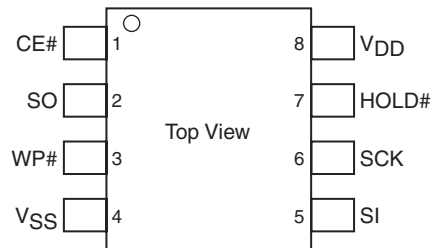
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -67

Q8011: SST25VF080B (8 Mbit Serial Flash Memory)

BLOCK DIAGRAM



PIN CONFIGURATION



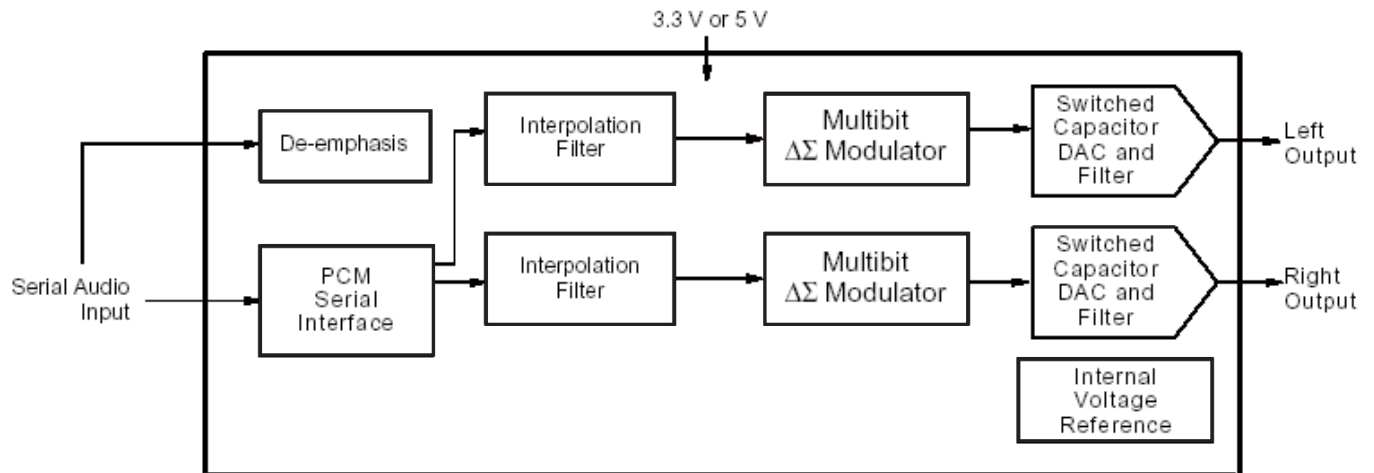
TERMINAL DESCRIPTION

Symbol	Pin Name	Functions
SCK	Serial Clock	To provide the timing of the serial interface. Commands, addresses, or input data are latched on the rising edge of the clock input, while output data is shifted out on the falling edge of the clock input.
SI	Serial Data Input	To transfer commands, addresses, or data serially into the device. Inputs are latched on the rising edge of the serial clock.
SO	Serial Data Output	To transfer data serially out of the device. Data is shifted out on the falling edge of the serial clock.
CE#	Chip Enable	The device is enabled by a high to low transition on CE#. CE# must remain low for the duration of any command sequence.
WP#	Write Protect	The Write Protect (WP#) pin is used to enable/disable BPL bit in the status register.
HOLD#	Hold	To temporarily stop serial communication with SPI flash memory without resetting the device.
VDD	Power Supply	To provide power supply voltage: 2.7-3.6V for SST25VF080
VSS	Ground	

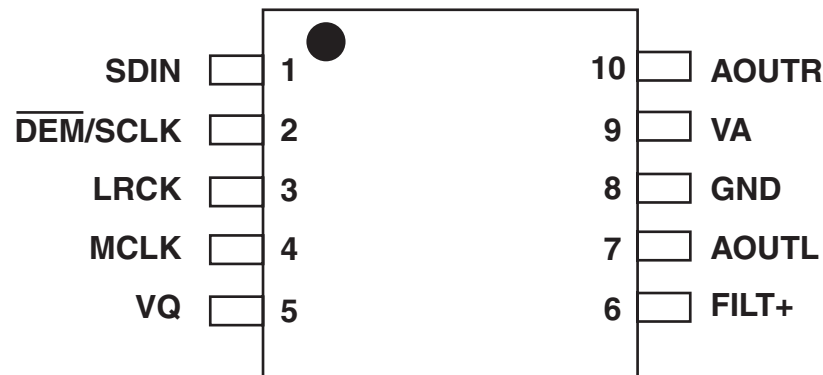
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -68

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

BLOCK DIAGRAM



PIN CONFIGURATION



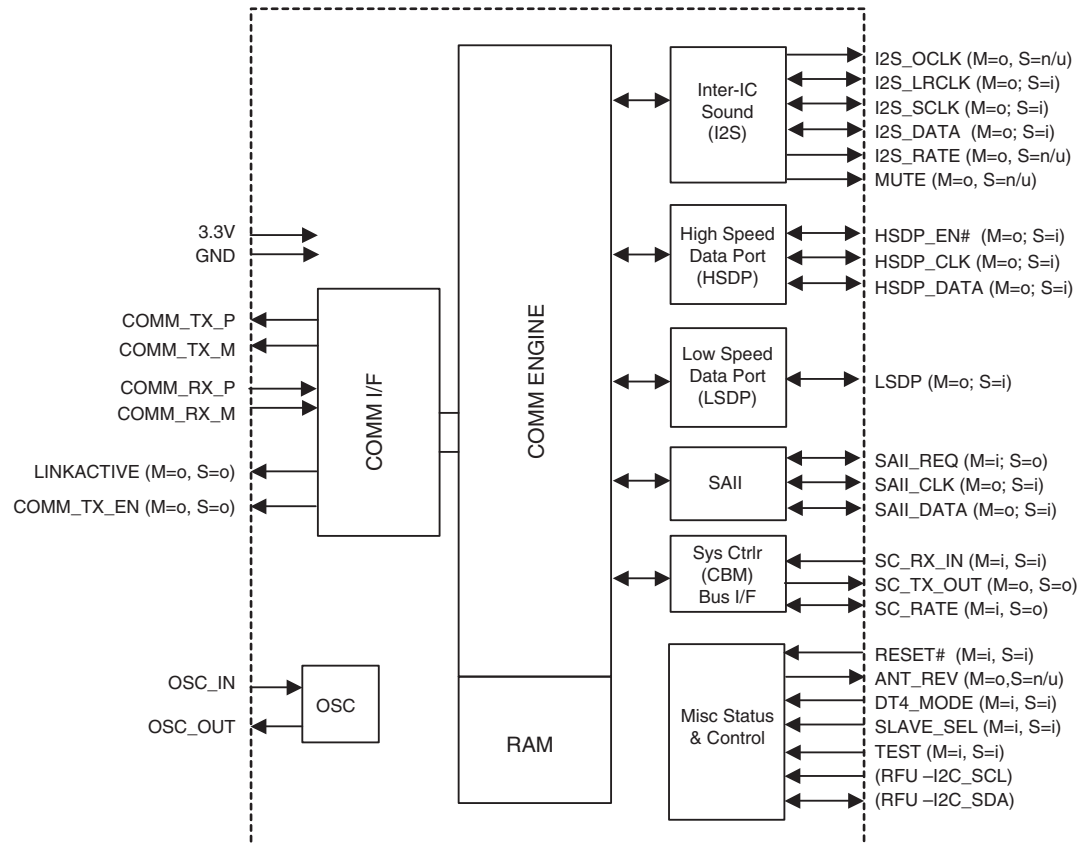
TERMINAL DESCRIPTION

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

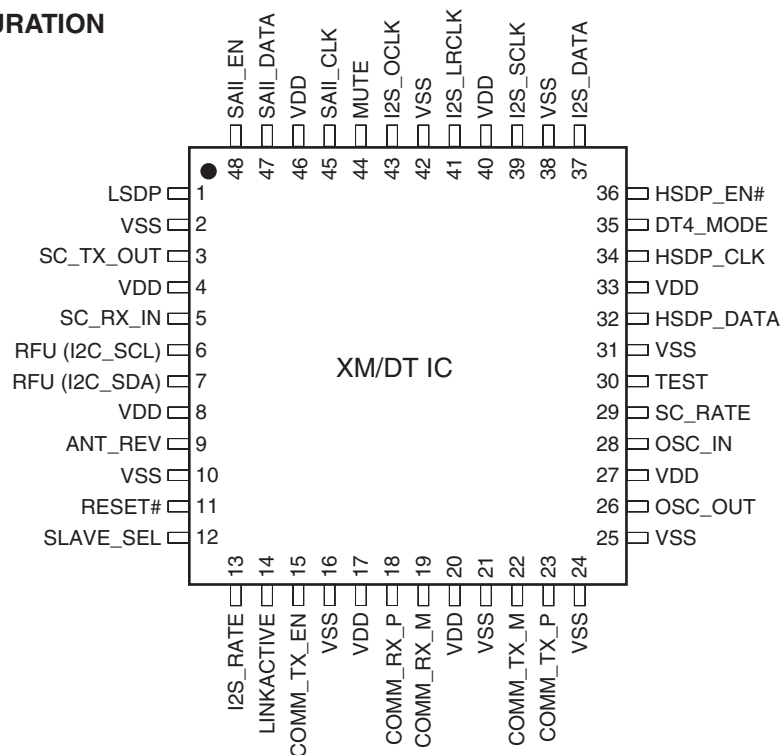
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -69

Q103 : F2628E-01 (XM Digital Transceiver)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -70

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 M=Out	Low Speed Data Port Input	Low Speed Data Port Output	Out= 4mA, SLC In=LVTTL S/T
3	SC_TX_OUT	S=Out M=Out	System Controller Bus (CBM) Transmit Data Out	System Controller Bus (CBM) Transmit Data Out	4mA, SLC
5	SC_RX_IN	S=In M=In	System Controller Bus (CBM) Receive Data In	System Controller Bus (CBM) Receive Data In	LVTTL S/T
6	RFU (I2C-SCL)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
7	RFU (I2C-SDA)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
9	ANT_REV	S=n/u M=Out	Not used in Slave mode, leave unconnected	Indication of incompatible antenna (refer to section 4.3.2 for usage)	4mA, SLC
11	RESET#	S=In M=In	Asynchronous Reset In, (Active Low)	Asynchronous Reset In, (Active Low)	LVTTL S/T
12	SLAVE_SEL	S=In M=In	Master/Slave Mode Select In (High = Slave Mode)	Master/Slave Mode Select In (Low = Master Mode)	LVTTL S/T
13	I2S_RATE	S=Out M=Out	Output driven high, leave unconnected	Indicator of incoming I2S data rate (see section 4.4.2)	4mA, SLC
14	LINKACTIVE	S=Out M=Out	Link Active indicator (High = DT bus link is active and data is flowing)	Link Active indicator (High = DT bus link is active and data is flowing)	4mA, SLC
15	COMM_TX_EN	S=Out M=Out	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	4mA, SLC
18	COMM_RX_P	S=In M=In	DT Differential Comm Bus Internal Receiver Positive In	DT Differential Comm Bus Internal Receiver Positive In	LVDS in+
19	COMM_RX_M	S=In M=In	DT Differential Comm Bus Internal Receiver Negative In	DT Differential Comm Bus Internal Receiver Negative In	LVDS in-
22	COMM_TX_M	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Negative Out	DT Differential Comm Bus Internal Transmitter Negative Out	LVDS out-
23	COMM_TX_P	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Positive Out	DT Differential Comm Bus Internal Transmitter Positive Out	LVDS out+
26	OSC_OUT	S=Out M=Out	Crystal Driver Output	Crystal Driver Output	
28	OSC_IN	S=In M=In	Crystal/ Ext. Clock Input	Crystal/ Ext. Clock Input	
29	SC_RATE (Rev 4A only, pull down for rev 3B)	S=Out M=In	SC interface baud rate Output (High = DT4_MODE is high and the Master DTIC is operating at 115.2K baud)	SC interface baud rate select Input (High = 115.2K baud, Low = 9600 baud)	Out= 4mA, SLC In=LVTTL S/T
30	TEST	S=In M=In	Factory Test Mode Select (1=Test, 0= Normal Oper.)	Factory Test Mode Select (1=Test, 0= Normal Oper.)	LVTTL S/T

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -71

Q103 : F2628E-01 (XM Digital Transceiver)

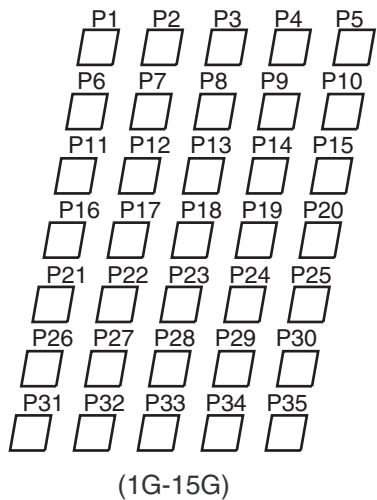
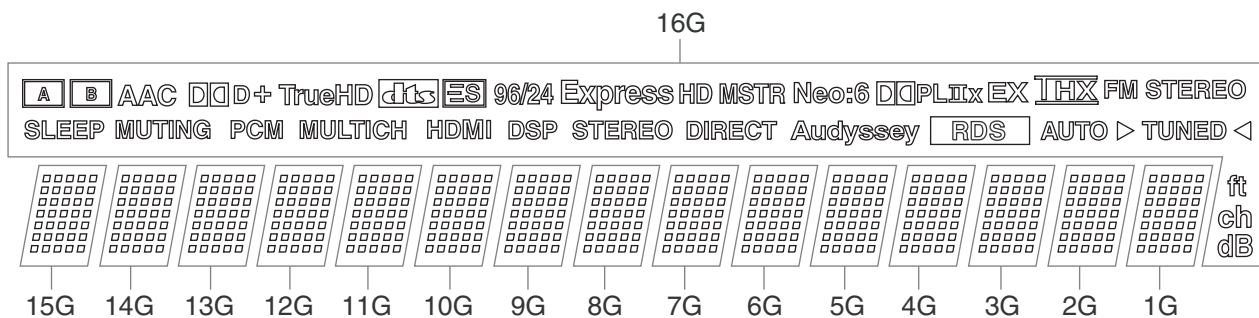
TERMINAL DESCRIPTION(2/2)

Pin No.	Pin Name	Direction	Function in Slave Mode	Function in Master Mode	Notes
32	HSDP_DATA	S=In M=Out	High Speed Data Port Data Input	High Speed Data Port Data Output	Out= 4mA, SLC In=LVTTL S/T
34	HSDP_CLK	S=In M=Out	High Speed Data Port Clock Input	High Speed Data Port Clock Output	Out= 4mA, SLC In=LVTTL S/T
35	DT4_MODE	S=In 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 M=Out	High Speed Data Port Enable Input (Active low)	High Speed Data Port Enable Output (Active low)	Out= 4mA, SLC In=LVTTL S/T
37	I2S_DATA	S=In M=Out	I2S Digital Audio Port Data In	I2S Digital Audio Port Data Out	Out= 4mA, SLC In=LVTTL S/T
39	I2S_SCLK	S=In M=Out	I2S Digital Audio Port Bit Clock In	I2S Digital Audio Port Bit Clock Out	Out= 4mA, SLC In=LVTTL S/T
41	I2S_LRCLK	S=In M=Out	I2S Digital Audio Port Left/Right Clock In	I2S Digital Audio Port Left/Right Clock Out	Out= 4mA, SLC In=LVTTL S/T
43	I2S_OCLK	S=In 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 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 M=In	SAII Port Clock Output	SAII Port Clock Input	Out= 4mA, SLC In=LVTTL S/T
47	SAII_DATA	S=Out M=In	SAII Port Data Output	SAII Port Data Input	Out= 4mA, SLC In=LVTTL S/T
48	SAII_REQ	S=In M=Out	SAII Port Request Input	SAII Port Request Output	Out= 4mA, SLC 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	

FL TUBE VIEW

Q7002: 16-BT-138GNK



	16G	15G-1G
P1	SLEEP	1-1
P2	MUTING	2-1
P3	PCM	3-1
P4	MULTI CH	4-1
P5	HDMI	5-1
P6	DSP	1-2
P7	STEREO	2-2
P8	DIRECT	3-2
P9	Audyssey	4-2
P10	RDS	5-2
P11	AUTO	1-3
P12	> <	2-3
P13	TUNED	3-3
P14	A	4-3
P15	B	5-3
P16	AAC	1-4
P17	D	2-4
P18	D	3-4

	16G	15G-1G
P19	+	4-4
P20	TrueHD	5-4
P21	DTS	1-5
P22	ES	2-5
P23	96/24	3-5
P24	Express	4-5
P25	HD	5-5
P26	MSTR	1-6
P27	Neo:6	2-6
P28	D	3-6
P29	PLII	4-6
P30	X	5-6
P31	EX	1-7
P32	THX	2-7
P33	FM STEREO	3-7
P34	ch	4-7
P35	dB	5-7

MICROPROCESSOR TERMINAL DESCRIPTIONS -1

Q2001: M3087BFBKBBP

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	~KEYINT0	I	L	KEY Interrupt 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	---	O	L	No Use
14	~VMUT	O	L	Video Mute
15	BYTE	I	---	Connect to Vss
16	CNVss	I	---	Connect to Vss
17	XMANT	I	L	XM IC 3B/4A input
18	XMLINK	I	H	XM IC 3B/4A 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	~KEYINT1	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 Volume IC
31	Z2VOLDAT	O	H	Data output to Zone2 Volume IC
32	---	O	H	No use
33	VSPRDY	I/O	H	Request input from Hudson FLI8125
34	~VSPRST	O	L	Hudson FLI8125 reset output
35	VSPREQ	O	H	Request output from Hudson FLI8125
36	VSPSCL	I/O	H	Hudson FLI8125 I2C clock output
37	VSPSDA	I/O	H	Hudson FLI8125 I2C data input/output
38	RS232TxD/FTxD	O	H	RS232 data output/Flash rewriter pin
39	Vcc	I	H	Power supply
40	RS232RxD/FRxD	I	H	RS232 data input/Flash rewriter pin
41	Vss	I	H	GND
42	FCLK	O	H	Flash rewriter pin
43	FBUSY	O	H	Flash rewriter pin
44	ETHERTX	O	H	ETHERNET data output
45	ETHERRX	I	H	ETHERNET data input
46	ETHERRST	O	H	ETHERNET reset output
47	SEC1H	O	H	Power Supply Voltage control
48	ROMCS	O	L	EEPROM chip select
49	ROMSDI	I	H	EEPROM data input
50	ROMSDO	O	H	EEPROM data output

MICROPROCESSOR TERMINAL DESCRIPTIONS -2

Q2001: M3087BFBKBP

Pin No.	Pin Name	I/O	Act.	Description
51	ROMCLK	O	CLK	EEPROM clock output
52	~TRGZ2	O	H	12 V Trigger Zone2 output
53	~TRGB	O	H	12 V Trigger B output
54	---	I	H	Connect to Vss
55	SPRLZ2	O	H	Zone2 Speaker relay control
56	SPDIFSW	O	H	S/PDIF Switch
57	Vss	I	H	GND
58	Z2MUTE	O	H	Zone2 mute control
59	Vcc	I	H	Power supply
60	SBZ2MUTE	O	H	Surround Back/Powered 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	~DSP1CS	O	L	DSP1 chip select output
67	~DSP2CS	O	L	DSP2 chip select output
68	~DSP3CS	O	L	DSP3 chip select output
69	SELSTB	O	H	Audio input selector IC strobe output
70	SELDAT	O	H	Audio input selector IC data output
71	SELCLK	O	CLK	Audio input selector IC clock output
72	~DSCCS	O	L	CS4398 chip select output
73	~DIRCS	O	L	CS42528 chip select output
74	Vcc	I	---	Power supply
75	~TRGA	O	H	12V Trigger A output
76	Vss	I	---	GND
77	VOLDAT	O	H	Volume IC data output
78	VOLCLK	O	CLK	Volume IC clock output
79	~DSP3INT	I	L	DSP3 BUSY detect input
80	~DSP3RST	O	L	DSP3 reset output
81	~DSP2INT	I	L	DSP2 BUSY detect input
82	~DSP2RST	O	L	DSP2 reset output
83	~DSP1INT	I	L	DSP1 BUSY detect input
84	~DSP1RST	O	L	DSP1 reset output
85	~DACRST	O	L	DAC reset output
86	~DIRINT	I	H	DIRCODEC Error detect input
87	DSP1NIC	I	L	DSP1 status change input
88	DIGSDI	I	H	DIR/DSP/DAC/FLD 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	---	O	H	No use
95	APOWER	O	H	Main Power trans control output
96	MEQMUTE	I	H	3rd DSP Audyssey mute detect input
97	VPOWER	O	H	Video power supply control output
98	---	O	H	No use
99	VOLH	I	A/D	Power output level detect input
100	THERMAL2	I	A/D	Thermal sensor2 input

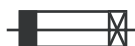
MICROPROCESSOR TERMINAL DESCRIPTIONS -3

Q2001: M3087BFBKBP

Pin No.	Pin Name	I/O	Act.	Description
101	THERMAL1	I	A/D	Thermal sensor1 input
102	~REMIN	I	L	Remote control signal input
103	IRIN	I	H	IR interrupt
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	~FLDCS	O	H	(FL driver chip select output)
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	PCMSW	O	H	PCM switch
115	---	O	H	No use
116	~DIRSW	O	H	DIR switch
117	DSDRCSW	O	H	No use
118	LEDZ2	O	H	Zone2 LED control output
119	VOLB	I	H	Master volume data input
120	VOLA	I	H	Master volume data input
121	VOLLED	O	H	Volume 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	DSP1 decode status input
138	---	O	H	No use
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 UART data input

SERVICE PROCEDURES-1

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 e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce dernier est indique la qu le present symbol est appose.

<Notes>

<DC> : TX-SR705 USA and Canadian model	<MO> : TX-SR705 Saudi model
<DT> : TX-SR705 Taiwanese model	<MK> : TX-SR705 Korean model
<MP> : TX-SR705 European model	<MQ> : TX-SR705 Hong kong model
<MA> : TX-SR705 Australian model	<MR> : TX-SA705 Chinese model
<MT> : TX-SR705 Southeast Asian model	

REF NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
F901	FUSE	10A-UL/T-233	252330GR	!, <DC, DT>
F901	FUSE	5A-SE-EAK	252078GR	!, <MP, MA, MO, MK, MQ, MT, MR>
F903	FUSE	5A-UL/ T-233	252326GR	!, <DC>
F903	FUSE	2.5A-SE-EAK	252075GR	!, <MP>
F910	FUSE	5A-UL/T-233	252326GR	!, <DC, DT>
F910	FUSE	5A-SE-EAK	252078GR	!, <MP, MA, MO, MK, MQ, MT, MR>
F6901	FUSE	12A-TUL-250V	252301GR	!
F6902	FUSE	12A-TUL-250V	252301GR	!

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 not a capacitor but a EEPROM IC in order to retain radio presets and other settings. So, memory contents will be kept eternally with no care.

5. Replacing Power Amplifier Parts

When a power amplifier of certain channel is broken and goes into Protect mode, the following parts in the channel must be replaced at the same time, because these parts get damage together in most cases.

Front L ch	Front R ch	Center ch	Surround L ch	Surround R ch	Surround Back L ch	Surround Back R ch
Q6051,Q6061 Q6031,Q6041 Q6011,Q6001 C6041,R6101 R6081,R6091 R6071,R6021	Q6052,Q6062 Q6032,Q6042 Q6012,Q6002 C6042,R6102 R6082,R6092 R6072,R6022	Q6050,Q6060 Q6030,Q6040 Q6010,Q6000 C6040,R6100 R6080,R6090 R6070,R6020	Q6053,Q6063 Q6033,Q6043 Q6013,Q6003 C6043,R6103 R6083,R6093 R6073,R6023	Q6054,Q6064 Q6034,Q6044 Q6014,Q6004 C6044,R6104 R6084,R6094 R6074,R6024	Q6055,Q6065 Q6035,Q6045 Q6015,Q6005 C6045,R6105 R6085,R6095 R6075,R6025	Q6056,Q6066 Q6036,Q6046 Q6016,Q6006 C6046,R6106 R6086,R6096 R6076,R6026

SERVICE PROCEDURES-2

6. Replacing microprocessors and flash memories

These descriptions are about writing programs to a new IC which is replaced with broken one.

1. Main microprocessor

Target IC: Q2001

No need to write the program directly to a chip by a specific ROM writer. Mount the chip on pcb and the pcb on the unit.

Refer to **FIRMWARE UPDATE-2** for the way to write the program.

2. Video (HDMI) microprocessor

Target IC: Q8701

No need to write the program directly to a chip by a specific ROM writer. Mount the chip on pcb and the pcb on the unit.

Refer to **FIRMWARE UPDATE-3** to 10 for the way to write the program.

3. 1st DSP ROM

Target IC: Q3451

Must write the program directly to a chip by a specific ROM writer before mounting on pcb.

ROM writer example: AF9708 (Ando Electric) and compatibles.

4. 2nd DSP ROM

Target IC: Q3551

Must write the program directly to a chip by a specific ROM writer before mounting on pcb.

ROM writer example: AF9708 (Ando Electric) and compatibles.

5. 3rd DSP ROM

Target IC: Q3651

Must write the program directly to a chip by a specific ROM writer before mounting on pcb.

ROM writer example: AF9708 (Ando Electric) and compatibles.

6. Video processor (HUDSON)

Target IC: Q8011

No need to write the program directly to a chip by a specific ROM writer. Mount the chip on pcb and the pcb on the unit.

Refer to **FIRMWARE UPDATE-5 to 10** for the way to write the program.

This procedure is through Gprobe socket P8011 on pcb: NAHDM-9265s.

7. Network (E-Control) (DTR-6.8 only)

Target IC: Q2801, Q2802

No need to write the program directly to a chip. Mount the chip on pcb and the pcb on the unit.

Need the writer “ PICKit 2 (MICROCHIP) ” and PC application to write.

This procedure is through JTAG socket on pcb: NALAN-9268.

FIRMWARE UPDATE -1

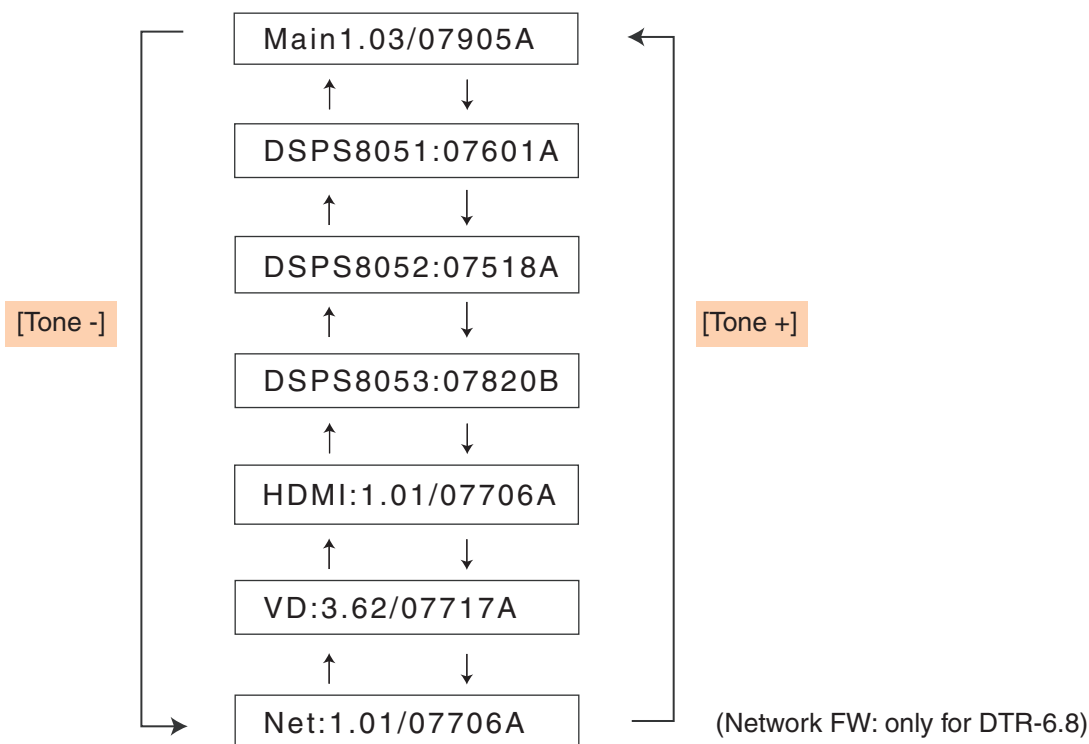
How to Check Versions of Main, DSP(1st to 3rd), HDMI and Video

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

<e.g.>

Main1.03/07905A

2. Press [Tone +] button while the version is displayed. Then, "DSP 1st SR8051/07601A" will be displayed.
Press [Tone +] button again while "DSPS8051:07601A" 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

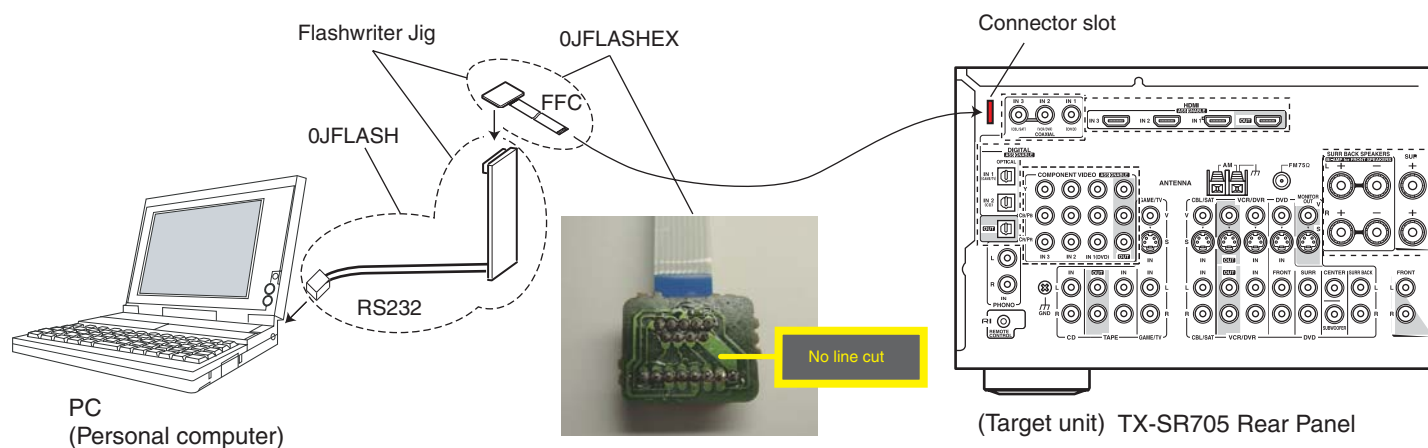
Preparation for Update (Main)

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-SR705/TX-SA705/DTR-6.8 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 RS232 port of the PC.
2. Connect the FFC of the jig to the connector slot on the rear panel of TX-SR705/TX-SA705/DTR-6.8.
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

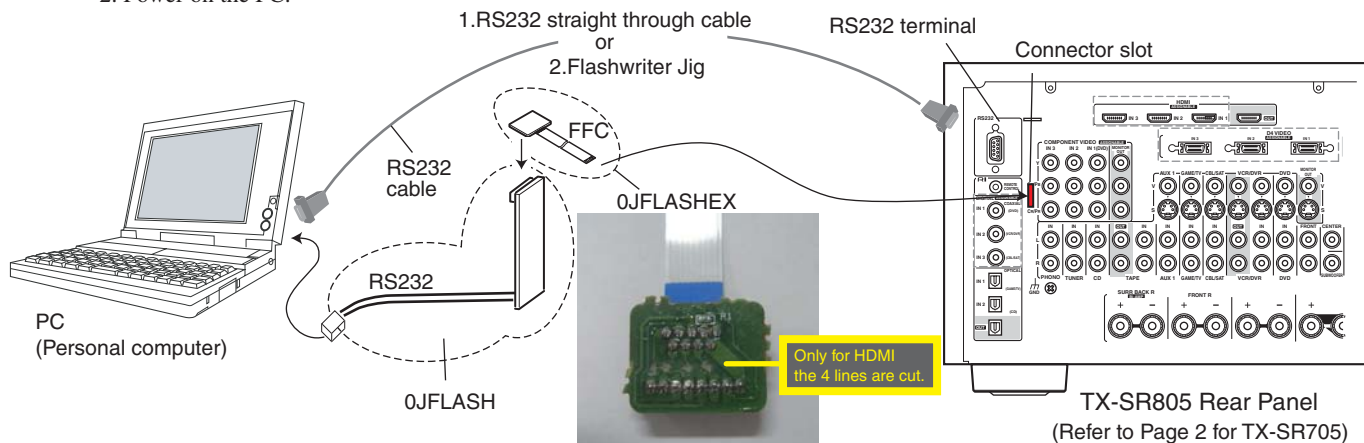
Preparation for Update (HDMI)

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.

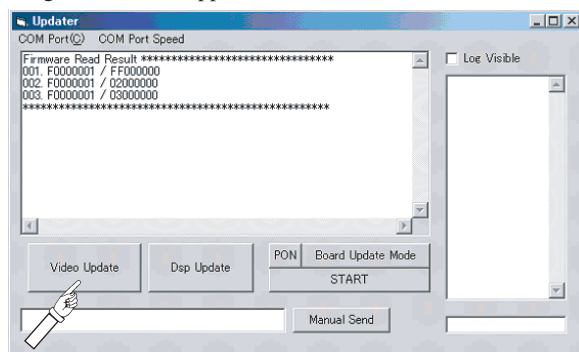
B: Connection and Setup

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 TX-SR805/TX-SA805/DTR-7.8.
2. Power on the PC.

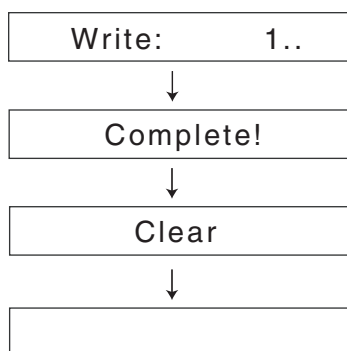


HDMI Update Procedure

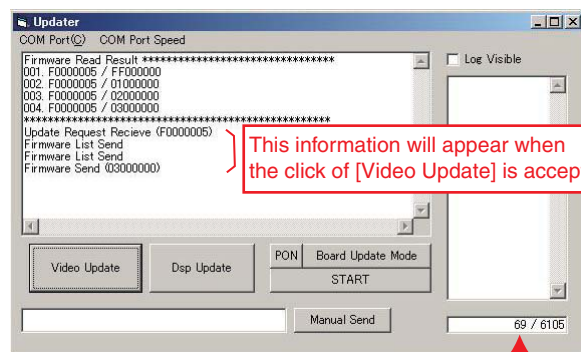
1. Double click "Update.exe" in the unzipped folder "HDMIUpdater_SR805_07706A" (Folder name depends on the version.)
The following window will appear.



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

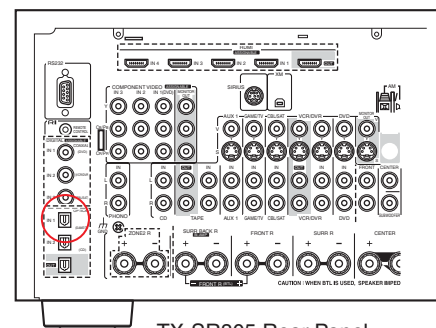
Preparation for Update (DSP, all in one)

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.



TX-SR805 Rear Panel
(Refer to Page 2 for TX-SR705)

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:
8 1.05/07903A

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..." will appear.

S/PDIF Update..

Check Points:

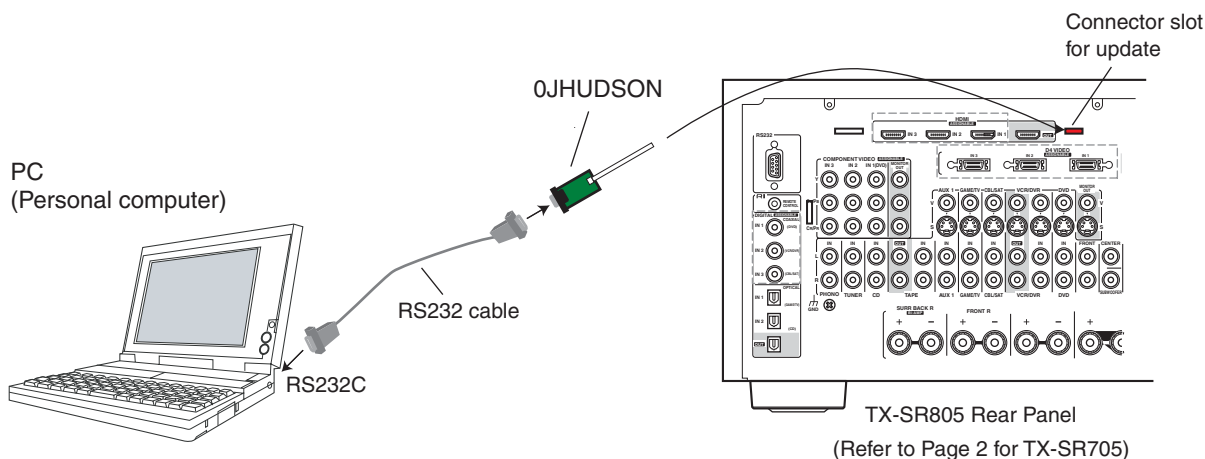
1. "Writing... 1st DSP" was shown.
2. CD player has been playing for more than 1 minutes + 4 seconds and finishes playback.

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.



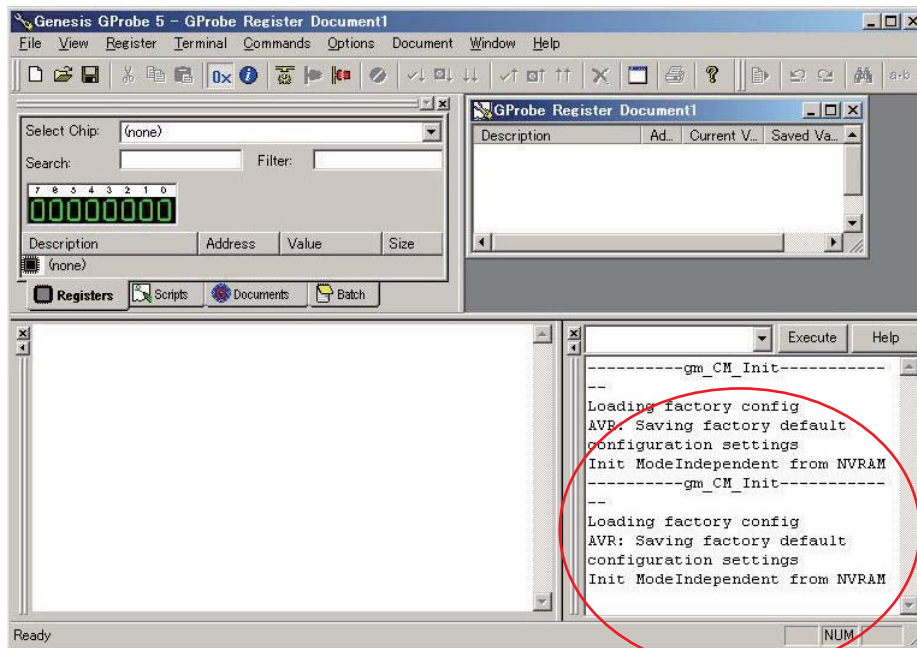
FIRMWARE UPDATE -6

Video Update Procedure

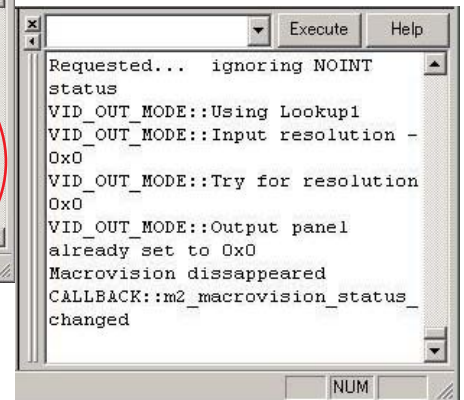
1. Start GProbe by clicking the icon.



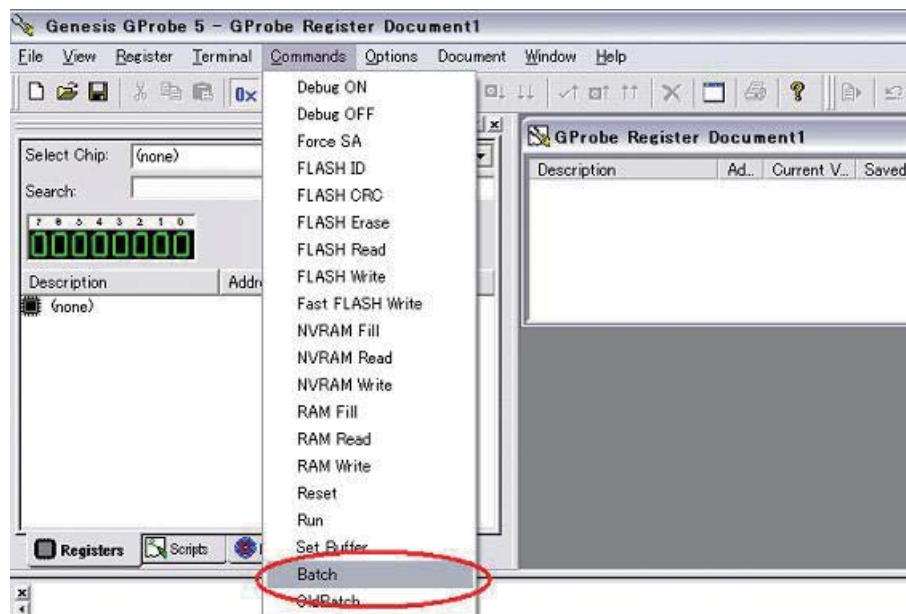
2. Turn on the unit and make sure that some information appears in the bottom right corner of the window. If nothing appears in this area, the PC does not communicate with the unit.



Wait until reading stops.



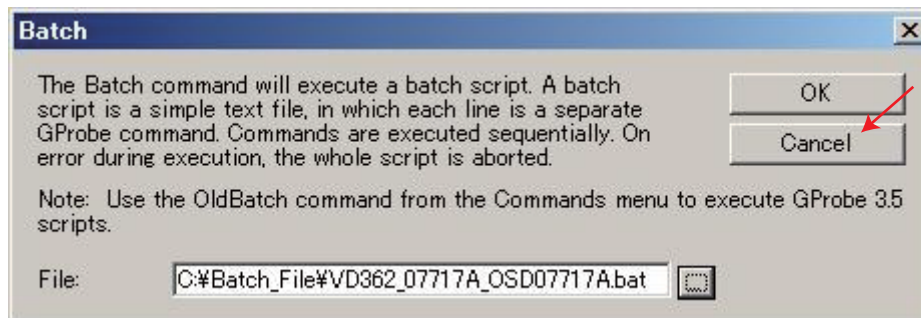
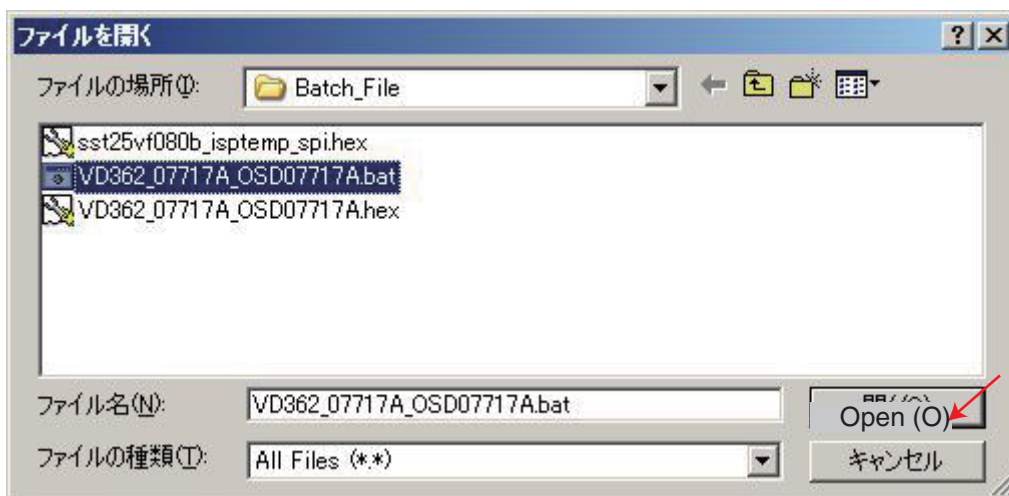
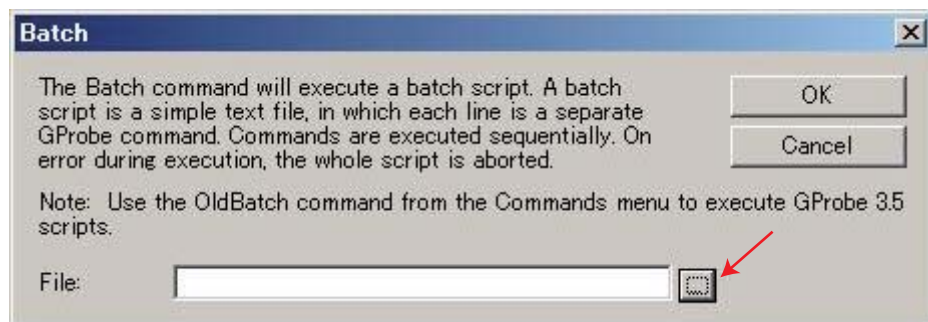
3. Click "Commands" in the menu bar and select "Batch."



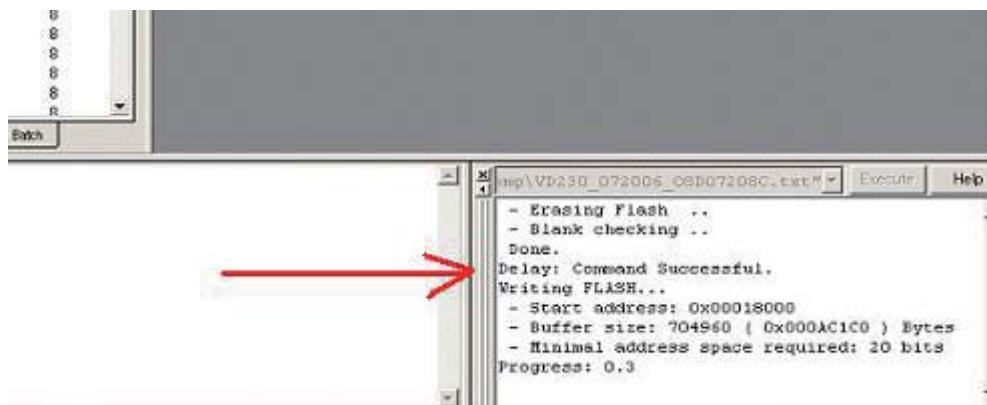
FIRMWARE UPDATE -7

Video Update Procedure(Continued)

4. Start Batch file by selecting the batch file stored in First Procedure.



5. Make sure that "Command Successful. Writing FLASH..." appears in the bottom right corner of the window.

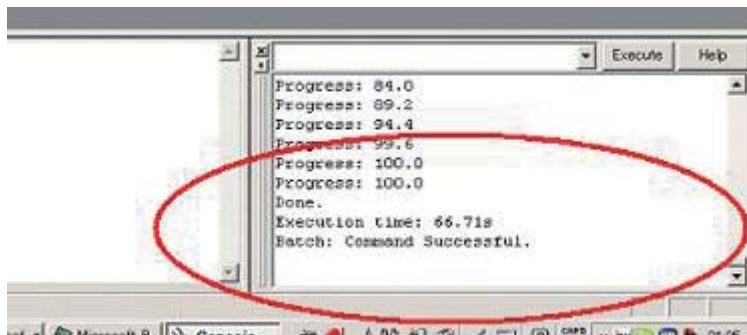


Note:
Front Display on the unit will show no information about writing but continue to display what was shown before.

FIRMWARE UPDATE -8

Video Update Procedure(Continued)

6. Make sure that “Progress: 100.0 Command Successful” is shown as below.

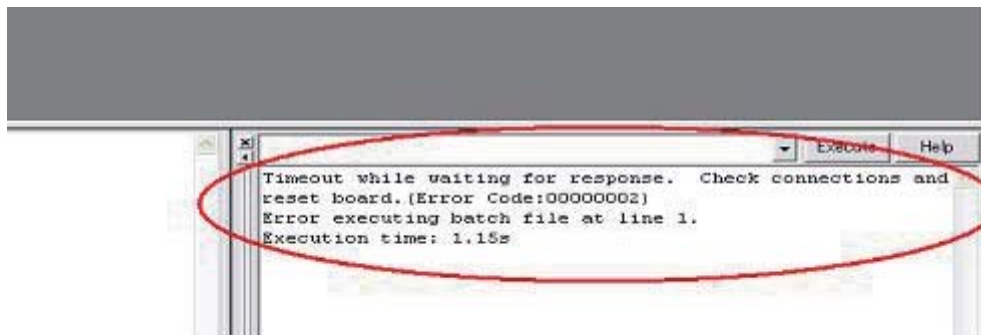


7. Turn off and on the unit.

8. Confirm the new version number.

NOTE:

If “Command Successful Writing FLASH...” does not appear, turn off and on the unit, and try again from Step 1.



FIRMWARE UPDATE -9

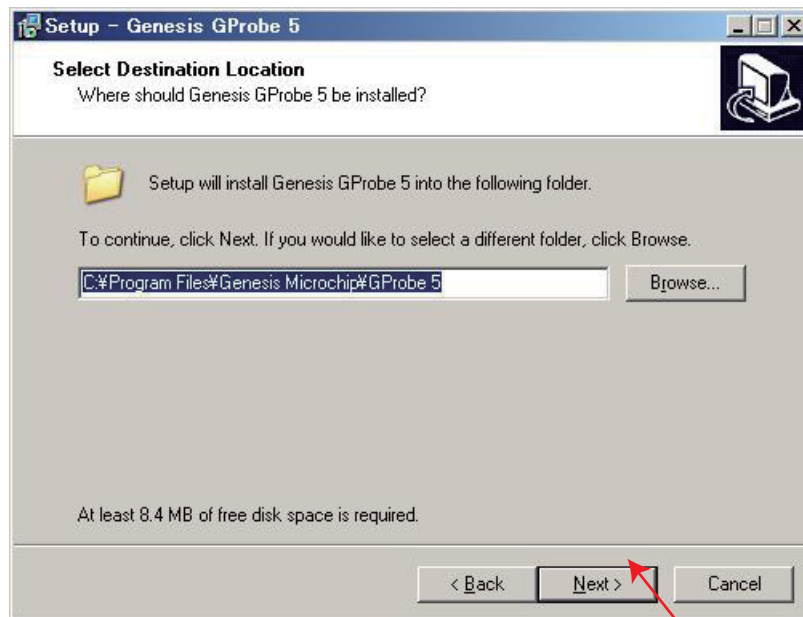
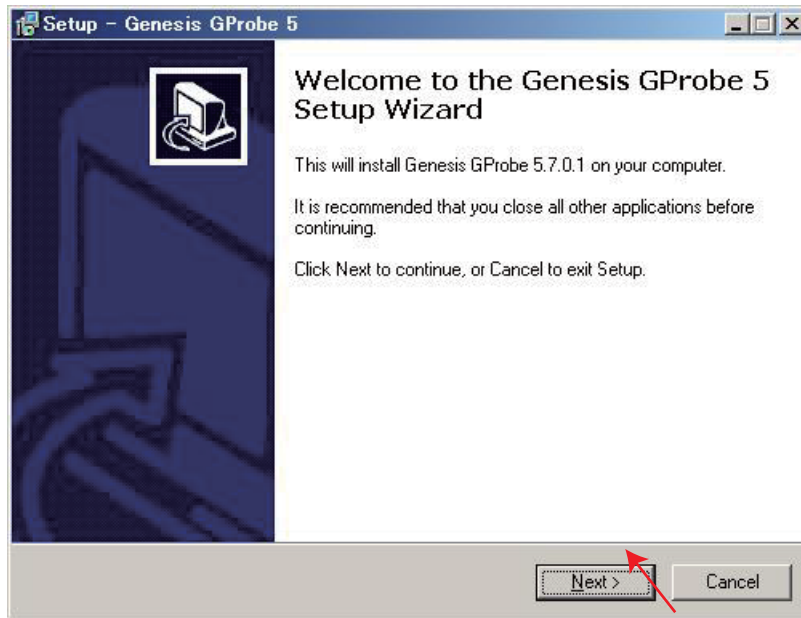
How to install GProbe

This procedure is necessary to start Video Update (See FIRMWARE UPDATE -5)

1. Unzip “GProbe 5[1].4.0.3.zip” and double-click the extracted file “GProbe5.4.0.3.exe.”

2. Follow the instructions on the window as below.

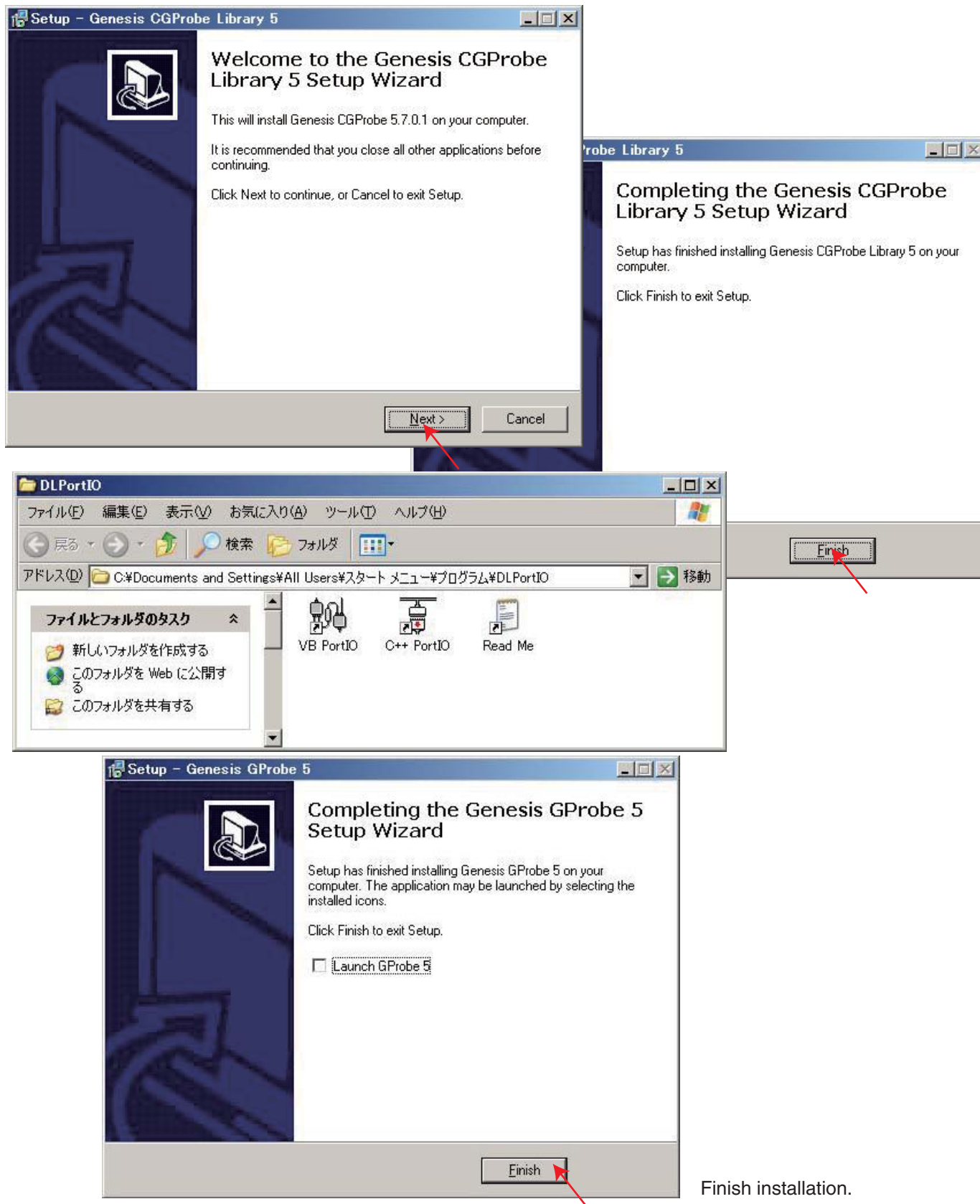
Note: Not all the windows are shown in this procedure.



FIRMWARE UPDATE -10

How to install GProbe(Continued)

3. Another Setup Wizard starts.



OPERATION CHECK-1

SPEAKER PROTECT-1 (DC VOLTAGE DETECTION)

[When]

1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange amplifier PC board ass'y (NAAF-9142).

[Procedure]

<Note>

No load. No input.

1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
"Test - _" will be displayed only for 5 seconds.

Test -  Blinks

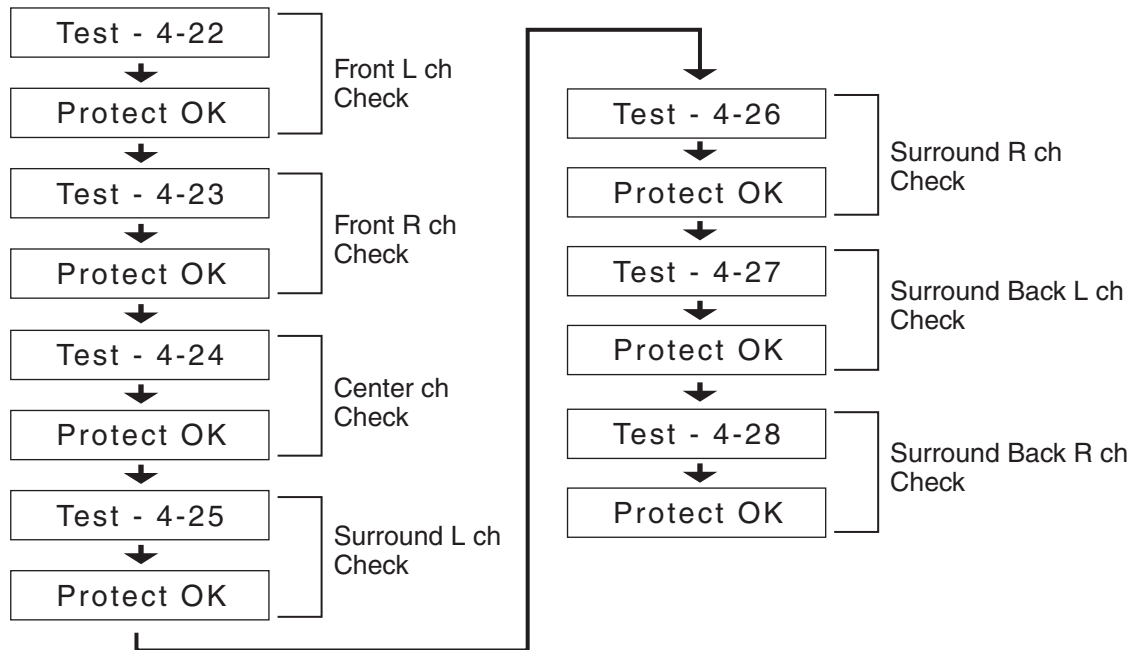
2. Press GAME/TV button, while the characters of "Test - _" will be displayed.
The unit is in the state of "Test-4-00".

Test - 4-00

3. Repeatedly press TONE + button until the characters of "Test-4-22" are displayed.

Test - 4-22

Check whether the operation starts and continues automatically as follows.



If all channels are OK, the characters of "Test - 4 - 36 " will be displayed.

Test - 4-36

4. Press STANDBY/ON button.



OPERATION CHECK-2

SPEAKER PROTECT-2 (CURRENT DETECTION)

[When]

1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange amplifier PC board ass'y (NAAF-9142).

[Procedure]

<Note>

No input.

Do not check two or more channels at the same time.

Do not connect a dummy load to speaker terminals longer than 2 seconds.

1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
"Test - _" will be displayed only for 5 seconds.

Test -  Blinks

2. Press GAME/TV button, while "Test - _" is displayed.
The unit will be in the state of "Test-4-00".

Test - 4-00

3. Repeatedly press TONE + button until "Test-4-36" is displayed.

Test - 4-36

4. Connect the dummy load of 3 ohms to the Front L ch speaker terminals.
At this time, confirm that the speaker relay is not turned off.

Test - 4-36

5. Connect the dummy load of 1 ohm to the Front L ch speaker terminals.
At this time, confirm that the speaker relay is turned off and "Protect" is displayed.

Protect

Disconnect the dummy load immediately after checking the display of "Protect".

Test - 4-36

6. Check other channels according to the same procedure as 4 and 5.
Front R, Center, Surround L, Surround R, Surround Back L, Surround Back R

7. Press STANDBY/ON button.

Clear →  Turn off

OPERATION CHECK-3

CONTROL OF POWER SUPPLY (OUTPUT SENSOR AND THERMAL SENSOR)

[When]

1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange power amplifier PC board ass'y (NAAF-9142).
3. Exchange thermal sensor PC board ass'y (NAETC-9144).

[Procedure]

<Note>

No output. No input.

Output sensor

1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
"Test - _" will be displayed only for 5 seconds.

Test -  — Blinks

2. Press GAME/TV button while "Test - _" is displayed.
The unit will be in the state of "Test-4-00".

Test - 4-00

3. Repeatedly press TONE + button until "Test-4-37" is displayed.

Test - 4-37

4. At this time, confirm that the red characters of "FM STEREO" is displayed.
And, check relay RL6901 and RL6902 are turned off in 2 or 3 seconds.

Test - 4-37  (Front R, Center, Surround L ch check)

5. press TONE + button, then "Test-4-38" will be displayed.

Test - 4-38

6. At this time, confirm that the red characters of "FM STEREO" is displayed.
And, check relay RL6901 and RL6902 are turned off in 2 or 3 seconds.

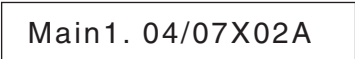
Test - 4-38  (Surround R, Surround Back L, Surround R ch check)

7. Press STANDBY/ON button.

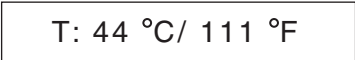
Clear → 

Thermal sensor

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 only for 3 seconds.

<Ex.> 

2. Press TONE button while the version is displayed. The temperature of thermal sensor will be displayed.

<Ex.> 

3. Confirm that the displayed temperature is within +/-20 °C from the ambient temperatures.

4. Press STANDBY/ON button.

Clear → 

OPERATION CHECK-4

Condition of Protect Mode

The unit will go into Protect mode under the following conditions.
(T: Thermal sensor temperature)

1. Thermal condition

After 10 minutes of $T \geq 100^{\circ}\text{C}$

or

Immediately $T \leq -30^{\circ}\text{C}$

or

Immediately $T > 150^{\circ}\text{C}$

or

Immediately $T \geq 90^{\circ}\text{C}$ (if $T > 40^{\circ}\text{C}$ when power is on)

or

Immediately $T \geq 90^{\circ}\text{C}$ (if the unit is powered on longer than 24 hours)

2. DC voltage condition

The sum of dc voltage of 7 channel speaker outputs is more than 7 V.

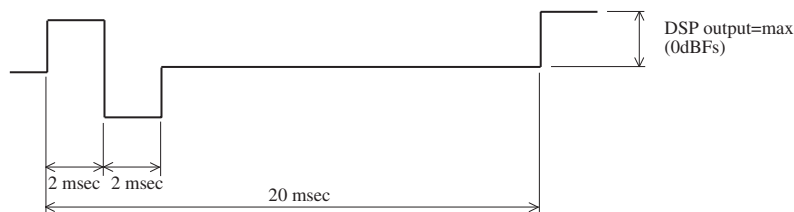
3. Current condition

Protect will be on if speaker output ac current $\geq 35\text{ A}$.

Protect will not be on if speaker output ac current $\geq 11.7\text{ A}$.

This condition is equivalent to OPERATION CHECK-2.

Test wave form:



Condition of Power Supply Control

The power supply voltage(VH or VL) for power amplifiers is changed by the relays: RL6901 and RL6902.

VH > VL (At VL, the maximum speaker outputs are reduced for safety)

T: Thermal sensor temperature

VOLH: Pin #99 input voltage of Main microprocessor: Q2001 (Refer to SD-2:A3 and SD-5:G3 of Schematic Diagram.

VL: VOLH $\geq 0.45\text{V}$ and $T \geq 65^{\circ}\text{C}$

or

VOLH $\geq 2.6\text{V}$ (Longer than 240ms)

VH: Conditions except above

Condition of Cooling Fan Operation

The cooling fan will stop or rotate under the following conditions.

STOP:

VOLH < 0.35V

LOW SPEED:

VOLH $\geq 0.35\text{V}$

MID SPEED:

VOLH $\geq 0.55\text{V}$ or $T \geq 55^{\circ}\text{C}$

HIGH SPEED:

VOLH $\geq 0.45\text{V}$ and $T \geq 65^{\circ}\text{C}$

ADJUSTMENT PROCEDURE-1

IDLING CURRENT ADJUSTMENT

[When]

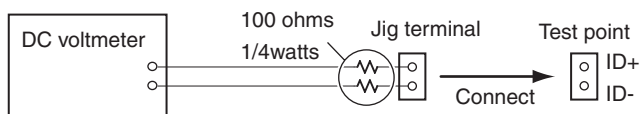
Exchange Power transistor (Q6050 - Q6056, Q6060 - Q6066) and/or Amplifier PC board (NAAF-9142).

[Procedure]

<Note> No load and No signal

Refer to <Fig-1> in " ADJUSTMENT PROCEDURE-2 " for the adjustment points and the test points.

1. Before idling adjustment, turn the trimming resistors to counter clockwise.
2. Connect the dc voltmeter to test points,
using two 100 ohm resistors between the poles of the jig terminal and the dc voltmeter terminals.



3. Connect the ac power cord to wall outlet.
4. Press STANDBY/ON button to turn the power on.
5. Adjust the trimming resistors as the following procedure immediately after power on.

Channel	Mark	Adjustment point (Trimming resistor)	Measuring point (Test point)	Adjustment value
Center	C	R6040	P6080	2.5 mV
Front Left	L	R6041	P6081	2.5 mV
Front Right	R	R6042	P6082	2.5 mV
Surround Left	SL	R6043	P6083	1.5 mV
Surround Right	SR	R6044	P6084	1.5 mV
Surround Back Left	SBL	R6045	P6085	1.5 mV
Surround Back Right	SBR	R6046	P6086	1.5 mV

6. Wait for 4 - 6 minutes. (Heat running)
7. Re-adjust the trimming resistors as the following procedure.

Channel	Adjustment point	Measured value	Adjustment value	Specifications (* In a stable state)
Front Left, Right and Center	R6041, R6042 and R6040	In case below 9 mV In case 9 - 11 mV In case over 11 mV	9 mV No re-adjustment 11 mV	12 +/- 3 mV
Surround Left Surround Right Surround Back Left Surround Back Right	R6043, R6044, R6045 and R6046	In case below 6 mV In case 6 - 8 mV In case over 8 mV	6 mV No re-adjustment 8 mV	9 +/- 3 mV

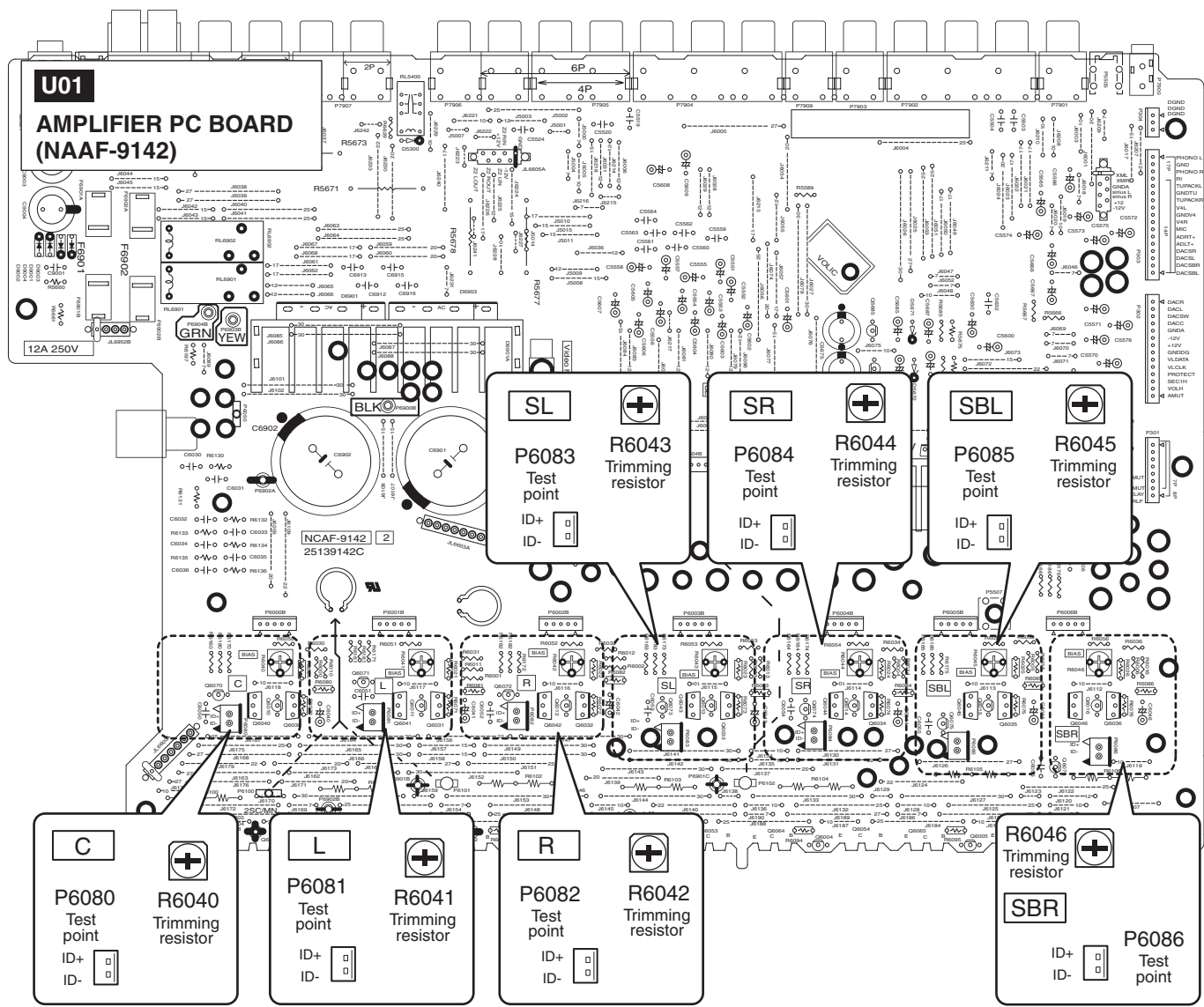
8. Disconnect the dc voltmeter.
9. Press the STANDBY/ON button to turn the power off.
10. Disconnect the ac power cord of the unit.

* Idling currents are stabilized in about 10 minutes after power on.

ADJUSTMENT PROCEDURE-2

IDLING CURRENT ADJUSTMENT

<Fig-1>



ADJUSTMENT PROCEDURE-3

VIDEO PROCESSOR CALIBRATION

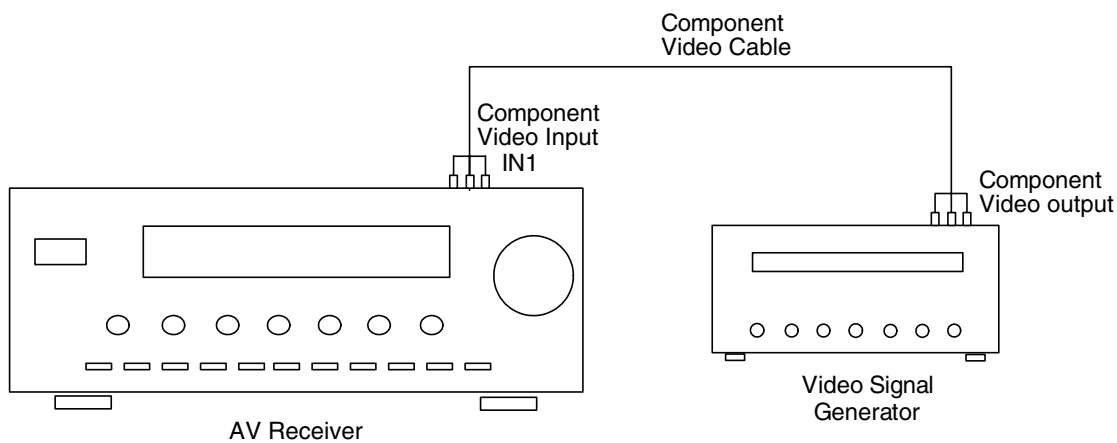
Video processor Q8001 must be calibrated before mounting on the unit.

[When]

1. Exchange Video processor IC (Q8001, FLI8125-LF-BC).
2. Exchange HDMI PC board ass'y (NAHDM-9107).

[Preparation]

1. Prepare a standard video signal generator(SG).
2. Set the SG to output 100% color bar of 8 colors and 480i at component video terminals.
3. Connect the unit(TX-SR705) and SG as shown in the figure.



[Procedure]

1. Press and hold down **CD** button, then press **STANDBY/ON** button.
" Test - _ " is displayed only for 5 seconds.
2. Press **AUX** button within 5 seconds above.
3. Press **ENTER** button.
4. Calibration of ADC part in FLI8125-LF-BC starts and proceeds.
5. The unit will be powered off automatically when succeeds.
6. If failed, " Calibration Error " will be displayed.
Check SG and signal, then return to Item 1.

TX-SR705/SA705

<Note>

- 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 touch.

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

<Notes>

(B) : TX-SR705 Black model
(G) : TX-SR705 Golden model
(S) : TX-SR705 Silver model
<SA705> : TX-SA705 Golden model
<SR705> : TX-SR705 All model

<DC> : TX-SR705 USA &Canadian model
<MP> : TX-SR705 European model
<MA> : TX-SR705 Australian model
<MO> : TX-SR705 Saudi model
<DT> : TX-SR705 Asian model for 120V
<MK> : TX-SR705 Korean model
<MQ> : TX-SR705 Hong kong model
<MT> : TX-SR705 Asian model for 220-240V
<SA705> : TX-SA705 Chinese model

EXPLODED VIEW PARTS LIST

REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
A001	CHASSIS	TX-SR705	1	27100501	
A002	F BRACKET	605 BLACK	1	27111488B	(B)
A002	F BRACKET	605 SILVER	1	27111489B	(S)
A002	F BRACKET	605 GOLD	1	27111490B	(G)
A002	F BRACKET	605 GOLD	1	27111490B	<SA705>
A003	HOLDER	(FAN)	8	27191302	
A004	SCREW	3TTB+8B(3CM)SR	40	801637	
A005	B PLATE	.	1	28133425	(B)
A005	B PLATE	.	1	28133426	(S)
A005	B PLATE	.	1	28133426	(G)
A005	B PLATE	.	1	28133426	<SA705>
A006	F PANEL	TX-SR705(B)MDC	1	27213040	(B)<DC>
A006	F PANEL	TX-SR705(S)MDC	1	27213041	(S)<DC>
A006	F PANEL	TX-SR705(B)MMP	1	27213042A	(B)<MP>
A006	F PANEL	TX-SR705(S)MMP	1	27213043A	(S)<MP>
A006	F PANEL	TX-SR705(B)	1	27213044	(B)<MA, MO>
A006	F PANEL	TX-SR705(S)	1	27213045	(S)<MA, MO>
A006	F PANEL	TX-SR705(G)	1	27213046	(G)<DT, MK, MQ, MT>
A006	F PANEL	TX-SA705(G)	1	27213047	<SA705>
A007	BADGE	BADGE	1	28135244	(B)
A007	BADGE	.	1	28135298	(S)
A007	BADGE	BADGE	1	28135245	(G)
A007	BADGE	BADGE	1	28135245	<SA705>
A008	GUIDE	(VOL) MILKY	1	27268210	
A009	CLEAR PLT	TX-SR705(B)MDC	1	28192153	(B)<DC>
A009	CLEAR PLT	TX-SR705(S)MDC	1	28192154	(S)<DC>
A009	CLEAR PLT	TX-SR705(B)MMP	1	28192155	(B)<MP, MA, MO>
A009	CLEAR PLT	TX-SR705(S)MMP	1	28192156	(S)<MP, MA, MO>
A009	CLEAR PLT	TX-SR705(S)MMP	1	28192156	(G)<DT, MK, MQ, MT>
A009	CLEAR PLT	TX-SR705(S)MMP	1	28192156	<SA705>
A010	KNOB	(PURE)AS BLACK	1	28326582A	(B)
A010	KNOB	(PURE)AS SILVER	1	28326583A	(S)
A010	KNOB	(PURE)AS GOLD	1	28326584A	(G)
A010	KNOB	(PURE)AS GOLD	1	28326584A	<SA705>
A013	REAR PANEL	TX-SR705MDC	1	27123751	<DC>
A013	REAR PANEL	TX-SR705MMP	1	27123752	<MP>
A013	REAR PANEL	TX-SR705MMT	1	27123753	<MO, MK, MQ, MT>
A013	REAR PANEL	TX-SR705MDT	1	27123754	<DT>
A013	REAR PANEL	TX-SR705MMA	1	27123755	<MA>
A013	REAR PANEL	TX-SA705MMR	1	27123756	<SA705>
A015	SCREW	3TTB+8B(3BC)	50	838430088GR	<DC>
A015	SCREW	3TTB+8B(3BC)	48	838430088GR	<MP>
A015	SCREW	3TTB+8B(3BC)	47	838430088GR	<DT, MA, MO, MK, MQ, MT>
A015	SCREW	3TTB+8B(3BC)	45	838430088GR	<SA705>
A016	WIRE TIE	BSK-1	13	260208	
A019	WASHER	W3*10F(3BC)	1	87643010GR	
A020	SCREW	3P+6FN(3BC)	1	82143006GR	<DC>
A020	SCREW	4TTB+8C(3BC)	2	838440089GR	<DT, MP, MA, MO, MK, MQ, MT, SA705>
A021	HOLDER	KGLS-22S	1	27190369	
A022	BUSHING	S-RELIEF #2271	1	27300750	!, <DC>
A023	HOLDER	KGLS-16RT	2	27190511	
A024	TAPE	TAPE(CLOTH-16U)	1	29110083	<DC>
A025	HOLDER	KGPS-16RF	4	27190991	
A027	HOLDER	KGLS-10RT	1	27190428A	
A037	SCREW	4TTC+8C(3BC)	4	830440089GR	
A039	LABEL	(PT)	1	29363379-1	
A041	HOLDER	HOLDER KGLS-8S	1	27190480	
A042	BRACKET	(HDMI)	1	27131033	
A045	HEAT SINK	.	1	27160609A	
A047	TAPE	TAPE(CLOTH-8U)	1	29110082	
A048	TAPE	TAPE(CLOTH-16U)	1	29110083	
A049	BRACKET	(HT-L)	1	27131029	

A051	BRACKET	(HT-R)	1	27131030	
A059	SCREW	3SMS8W.SW+14B(CU)	14	801634	
A061	IB CUSHION	W15*3i TAPE	1	28141585	
A063	KNOB	(SETUP) BLACK	1	28326517B	(B)
A063	KNOB	(SETUP) SILVER	1	28326518B	(S), (G), <SA705>
A065	SPRING	.	1	27180596	
A073	CUSHION	.	1	28141688	
A074	CUSHION	.	1	28141697	
A075	CUSHION	(BUTYL)	1	28141748	
A301	COVER	(B)	1	28184972	(B)
A301	COVER	(S)	1	28184973	(S)
A301	COVER	(G)	1	28184974	(G), <SA705>
A302	LABEL	(COVER)	1	29364123	
A303	LABEL	HOOKUP-ONKYO	1	29363194	<DC>
A304	SCREW	3TTB+8B(3BC)	6	838430088GR	(B)
A304	SCREW	3TTB+8B(3CM)SR	6	801637	(S), (G), <SA705>
A305	CUSHION	.	1	28141681	
A306	KNOB	(VOL)AS BLACK	1	28326579	(B)
A306	KNOB	(VOL)AS SILVER	1	28326580	(S)
A306	KNOB	(VOL)AS GOLD	1	28326581	(G), <SA705>
A307	BOTTOM LEG	.	4	27175432B	
A308	CUSHION	.	4	28141637	
A309	CUSHION	.	4	28141700	
A311	SCREW	3TTB+8B(3CM)SR	4	801637	
A313	CUSHION	.	3	28141749	
F6901	FUSE	12A-TUL-250V	1	252301GR	!
F6902	FUSE	12A-TUL-250V	1	252301GR	!
F901	FUSE	10A-UL/T-233	1	252330GR	!, <DC, DT>
F901 or	FUSE	10A-T/UL-ST2	(1)	252333GR	!, <DC, DT>
F901	FUSE	5A-SE-EAK FUSE	1	252078GR	!, <MP, MA, MO, MK, MQ, MT, SA705>
F901 or	FUSE	5A-SE-TL250V	(1)	252278GR	!, <MP, MA, MO, MK, MQ, MT, SA705>
F903	FUSE	5A-UL/T-233	1	252326GR	!, <DC>
F903 or	FUSE	5A-T/UL-ST2	(1)	252258GR	!, <DC>
F903	FUSE	2.5A-SE-EAK FUSE	1	252075GR	!, <MP>
F903 or	FUSE	2.5A-SE-TL250V	(1)	252275GR	!, <MP>
F910	FUSE	5A-UL/T-233	1	252326GR	!, <DC, DT>
F910 or	FUSE	5A-T/UL-ST2	(1)	252258GR	!, <DC, DT>
F910	FUSE	5A-SE-EAK FUSE	1	252078GR	!, <MP, MA, MO, MK, MQ, MT, SA705>
F910 or	FUSE	5A-SE-TL250V	(1)	252278GR	!, <MP, MA, MO, MK, MQ, MT, SA705>
P101	FFC	NCFC7-131112	1	2047131112	<SR705>
P4008	FFC	NCFC7-232512	1	2047232512	
P6601A	P RIVET	JB-407A-C	6	880052	<DT, MP, MA, MO, MK, MQ, MT, SA705>
P6602A	P RIVET	JB-407A-C	8	880052	<DT, MP, MA, MO, MK, MQ, MT, SA705>
P6607A	P RIVET	JB-407A-C	4	880052	<DT, MP, MA, MO, MK, MQ, MT, SA705>
P691	FAN	DO5X-12T	1	24502321	
P692	FAN	DO5X-12T	1	24502321	
P701	FFC	NCFC3-36023	1	204336023	
P901	AC CORD	AS-UC-2	1	253368BLTK	!, <DC>
P901 or	AC CORD	AS-UC-2	(1)	253333VOL	!, <DC>
P901 or	AC CORD	AS-UC-2	(1)	253368AYUN	!, <DC>
Q6050	TR	2SC5242-R	1	2202842	
Q6050 or	TR	2SC5242-O	(1)	2202843	
Q6050 or	TR	MN150S-O	(1)	2203683	
Q6050 or	TR	MN150S-P	(1)	2203686	
Q6050 or	TR	MN150S-Y	(1)	2203684	
Q6050A	ISO SHEET	AC238	2	223024	
Q6050B	ISO SHEET	ISO SHEET	6	223041	
Q6051	TR	2SC5242-R	1	2202842	
Q6051 or	TR	2SC5242-O	(1)	2202843	
Q6051 or	TR	MN150S-O	(1)	2203683	
Q6051 or	TR	MN150S-P	(1)	2203686	
Q6051 or	TR	MN150S-Y	(1)	2203684	
Q6052	TR	2SC5242-R	1	2202842	
Q6052 or	TR	2SC5242-O	(1)	2202843	
Q6052 or	TR	MN150S-O	(1)	2203683	
Q6052 or	TR	MN150S-P	(1)	2203686	
Q6052 or	TR	MN150S-Y	(1)	2203684	
Q6053	TR	2SC5242-R	1	2202842	
Q6053 or	TR	2SC5242-O	(1)	2202843	
Q6053 or	TR	MN150S-O	(1)	2203683	
Q6053 or	TR	MN150S-P	(1)	2203686	
Q6053 or	TR	MN150S-Y	(1)	2203684	
Q6054	TR	2SC5242-R	1	2202842	
Q6054 or	TR	2SC5242-O	(1)	2202843	
Q6054 or	TR	MN150S-O	(1)	2203683	
Q6054 or	TR	MN150S-P	(1)	2203686	
Q6054 or	TR	MN150S-Y	(1)	2203684	
Q6055	TR	2SC5242-R	1	2202842	
Q6055 or	TR	2SC5242-O	(1)	2202843	
Q6055 or	TR	MN150S-O	(1)	2203683	
Q6055 or	TR	MN150S-P	(1)	2203686	
Q6055 or	TR	MN150S-Y	(1)	2203684	
Q6056	TR	2SC5242-R	1	2202842	
Q6056 or	TR	2SC5242-O	(1)	2202843	
Q6056 or	TR	MN150S-O	(1)	2203683	
Q6056 or	TR	MN150S-P	(1)	2203686	
Q6056 or	TR	MN150S-Y	(1)	2203684	
Q6060	TR	2SA1962-R	1	2202832	
Q6060 or	TR	2SA1962-O	(1)	2202833	

Q6060 or	TR	MP150S-O	(1)	2203693	
Q6060 or	TR	MP150S-P	(1)	2203696	
Q6060 or	TR	MP150S-Y	(1)	2203694	
Q6061	TR	2SA1962-R	1	2202832	
Q6061 or	TR	2SA1962-O	(1)	2202833	
Q6061 or	TR	MP150S-O	(1)	2203693	
Q6061 or	TR	MP150S-P	(1)	2203696	
Q6061 or	TR	MP150S-Y	(1)	2203694	
Q6062	TR	2SA1962-R	1	2202832	
Q6062 or	TR	2SA1962-O	(1)	2202833	
Q6062 or	TR	MP150S-O	(1)	2203693	
Q6062 or	TR	MP150S-P	(1)	2203696	
Q6062 or	TR	MP150S-Y	(1)	2203694	
Q6063	TR	2SA1962-R	1	2202832	
Q6063 or	TR	2SA1962-O	(1)	2202833	
Q6063 or	TR	MP150S-O	(1)	2203693	
Q6063 or	TR	MP150S-P	(1)	2203696	
Q6063 or	TR	MP150S-Y	(1)	2203694	
Q6064	TR	2SA1962-R	1	2202832	
Q6064 or	TR	2SA1962-O	(1)	2202833	
Q6064 or	TR	MP150S-O	(1)	2203693	
Q6064 or	TR	MP150S-P	(1)	2203696	
Q6064 or	TR	MP150S-Y	(1)	2203694	
Q6065	TR	2SA1962-R	1	2202832	
Q6065 or	TR	2SA1962-O	(1)	2202833	
Q6065 or	TR	MP150S-O	(1)	2203693	
Q6065 or	TR	MP150S-P	(1)	2203696	
Q6065 or	TR	MP150S-Y	(1)	2203694	
Q6066	TR	2SA1962-R	1	2202832	
Q6066 or	TR	2SA1962-O	(1)	2202833	
Q6066 or	TR	MP150S-O	(1)	2203693	
Q6066 or	TR	MP150S-P	(1)	2203696	
Q6066 or	TR	MP150S-Y	(1)	2203694	

<Notes>

When replacing the following the transistors, use ones of the same Hfe rank as the original type.

Ref. No. : Q6050 - 6060, Q6051 - 6061, Q6052 - 6062, Q6053 - 6063, Q6054 - 6064, Q6055 - 6065, Q6056 - 6066

T901	P TRANS	NPT-1563D	1	2301920	!, <DC, DT>
T901	P TRANS	NPT-1563M	1	2301921	!, <MP, MA, MO, MK, MQ, MT, SA705>
U01	AMPLIFIER PC board ass'y	NAAF-9142-2A	1	1B187542-2A	<DC>
		NAAF-9142-2B	1	1B187542-2B	<MP, MA, MO, MK, MQ, MT>
		NAAF-9142-2C	1	1B187542-2C	<DT>
		NAAF-9142-2D	1	1B187542-2D	<SA705>
U02	POWER SUPPLY PC board ass'y	NAPS-9143-2A	1	1B187543-2A	<DC>
		NAPS-9143-2B	1	1B187543-2B	<MP, MA, MO, MK, MQ, MT>
		NAPS-9143-2C	1	1B187543-2C	<DT>
		NAPS-9143-2D	1	1B187543-2D	<SA705>
U03	THERMAL SENSOR PC board ass'y	NAETC-9144-2A	1	1B187544-2A	<DC>
		NAETC-9144-2B	1	1B187544-2B	<MP, MA, MO, MK, MQ, MT>
		NAETC-9144-2C	1	1B187544-2C	<DT>
		NAETC-9144-2D	1	1B187544-2D	<SA705>
U04	HOLDER PC board ass'y	NAETC-9145-2A	1	1B187545-2A	<DC>
		NAETC-9145-2B	1	1B187545-2B	<MP, MA, MO, MK, MQ, MT>
		NAETC-9145-2C	1	1B187545-2C	<DT>
		NAETC-9145-2D	1	1B187545-2D	<SA705>
U05	RS232 PC board ass'y	NAETC-9147-2A	1	1B187547-2A	<DC>
		NAETC-9147-2B	1	1B187547-2B	<MP, MA, MO, MK, MQ, MT>
		NAETC-9147-2C	1	1B187547-2C	<DT>
		NAETC-9147-2D	1	1B187547-2D	<SA705>
U06	DISPLAY PC board ass'y	NADIS-9148-2A	1	1B187548-2A	<DC>
		NADIS-9148-2B	1	1B187548-2B	<MP>
		NADIS-9148-2C	1	1B187548-2C	<MA, MO, MK, MQ, MT, SA705>
		NADIS-9148-2F	1	1B187548-2F	<DT>
U07	DISPLAY PC board ass'y	NADIS-9149-2A	1	1B187549-2A	<DC>
		NADIS-9149-2B	1	1B187549-2B	<MP>
		NADIS-9149-2C	1	1B187549-2C	<MA, MO, MK, MQ, MT, SA705>
		NADIS-9149-2F	1	1B187549-2F	<DT>
U08	POWER SUPPLY PC board ass'y	NAPS-9150-2A	1	1B187550-2A	<DC>
		NAPS-9150-2B	1	1B187550-2B	<MP>
		NAPS-9150-2C	1	1B187550-2C	<MA, MO, MK, MQ, MT, SA705>
		NAPS-9150-2F	1	1B187550-2F	<DT>
U09	POWER SUPPLY PC board ass'y	NAPS-9151-2A	1	1B187551-2A	<DC>
		NAPS-9151-2B	1	1B187551-2B	<MP>
		NAPS-9151-2C	1	1B187551-2C	<MA, MO, MK, MQ, MT, SA705>
		NAPS-9151-2F	1	1B187551-2F	<DT>
U10	FRONT OPT PC board ass'y	NAETC-9152-2A	1	1B187552-2A	<DC>
		NAETC-9152-2B	1	1B187552-2B	<MP>
		NAETC-9152-2C	1	1B187552-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9152-2F	1	1B187552-2F	<DT>
U11	HEADPHONE JACK PC board ass'y	NAETC-9153-2A	1	1B187553-2A	<DC>
		NAETC-9153-2B	1	1B187553-2B	<MP>
		NAETC-9153-2C	1	1B187553-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9153-2F	1	1B187553-2F	<DT>
U12	INLET PC board ass'y	NAETC-9155-2B	1	1B187555-2B	<MP>
		NAETC-9155-2C	1	1B187555-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9155-2F	1	1B187555-2F	<DT>
U13	HOLDER PC board ass'y	NAETC-9158-2A	1	1B187558-2A	<DC>
		NAETC-9158-2B	1	1B187558-2B	<MP>
		NAETC-9158-2C	1	1B187558-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9158-2F	1	1B187558-2F	<DT>

U14	HOLDER PC board ass'y	NAETC-9159-2A	1	1B187559-2A	<DC>
		NAETC-9159-2B	1	1B187559-2B	<MP>
		NAETC-9159-2C	1	1B187559-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9159-2F	1	1B187559-2F	<DT>
U15	HOLDER PC board ass'y	NAETC-9160-2A	1	1B187560-2A	<DC>
		NAETC-9160-2B	1	1B187560-2B	<MP>
		NAETC-9160-2C	1	1B187560-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9160-2F	1	1B187560-2F	<DT>
U16	DISPLAY PC board ass'y	NAETC-9161-2A	1	1B187561-2A	<DC>
		NAETC-9161-2B	1	1B187561-2B	<MP>
		NAETC-9161-2C	1	1B187561-2C	<MA, MO, MK, MQ, MT, SA705>
		NAETC-9161-2F	1	1B187561-2F	<DT>
U17	DAC AND MICROPROCESSOR PC board ass'y	NADG-9269-1A	1	1B187569-1A	<DC>
		NADG-9269-1B	1	1B187569-1B	<MP>
		NADG-9269-1C	1	1B187569-1C	<DT, MA, MO, MK, MQ, MT>
		NADG-9269-1D	1	1B187569-1D	<SA705>
U18	VIDEO AND SP TERMINAL PC board ass'y	NAVD-9270-1A	1	1B187570-1A	<DC>
		NAVD-9270-1B	1	1B187570-1B	<MP>
		NAVD-9270-1C	1	1B187570-1C	<DT, MA, MO, MK, MQ, MT>
		NAVD-9270-1D	1	1B187570-1D	<SA705>
U20	XM PC board ass'y	NARF-9267-1A	1	1B187567-1A	<DC>
U22	DRIVER AMPLIFIER PC board ass'y	NAAF-8917-3A	1	1B187517-3A	
U23	SPEAKER TERMINAL PC board ass'y	NAETC-8918-3A	1	1B187518-3A	
U24	DSP AND HDMI PC board ass'y	NAHDM-9265-1A	1	1B187565-1A	
U011	TUNER UNIT	FAE385-A11US	1	240152	<DC>
U011 or	TUNER UNIT	ENG06507QFUS	(1)	240156	<DC>
U011	TUNER UNIT	ENG07505QFEU	1	240158	<MP>
U011 or	TUNER UNIT	FAE485-E11EU	(1)	240154	<MP>
U011	TUNER UNIT	ENG07506QFEX	1	240159	<MA, MO, DT, MK, MQ, MT>
U011 or	TUNER UNIT	FAE485-E12EX	(1)	240155	<MA, MO, DT, MK, MQ, MT>

TX-SR705/SA705

PC BOARD PARTS LIST

U01	AMPLIFIER PC BOARD(NAAF-9142-1A/1B/1C/1D)
U02	POWER SUPPLY PC BOARD(NAPS-9143-1A/1B/1C/1D)
U03	THERMAL SENSOR PC BOARD(NAETC-9144-1A/1B/1C/1D)
U04	HOLDER PC BOARD(NAETC-9145-1A/1B/1C/1D)
U05	RS232 PC BOARD(NAETC-9147-1A/1B/1C/1D)

CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
Q5501	IC	R2S15211FP	1	22242297R3	
Q5600	TR	RN1441	1	2215410R2	
Q5601	TR	RN1441	1	2215410R2	
Q5602	TR	RN1441	1	2215410R2	
Q5603	TR	RN1441	1	2215410R2	
Q5604	TR	RN1441	1	2215410R2	
Q5605	TR	RN1441	1	2215410R2	
Q5606	TR	RN1441	1	2215410R2	
Q5607	TR	RN1441	1	2215410R2	
Q5610	TR	RN1441	1	2215410R2	
Q5611	TR	RN1441	1	2215410R2	
Q5612	TR	RN1441	1	2215410R2	
Q5613	TR	RN1441	1	2215410R2	
Q5614	TR	RN1441	1	2215410R2	
Q5615	TR	RN1441	1	2215410R2	
Q5616	TR	RN1441	1	2215410R2	
Q5617	TR	RN1441	1	2215410R2	
Q5630	IC	NJM4580M-D	1	22241448R2	
Q5670	IC	78M12HF(NJM78M12FA)	1	222780125JRC	
Q5670 or	IC	MPC78M12AHF-AZ	(1)	222780125NEC	
Q5670 or	IC	78M12(AN78M12F)	(1)	222780125MAT	
Q5670A	HEAT SINK	RAD-196	1	27160545	
Q5670B	SCREW	3P+10FN(3BC)	1	82143010GR	
Q5670C	TAPE	TAPE(CLOTH-8U)	1	29110082	
Q5671	IC	79M12HF(NJM79M12FA)	1	222790125JRC	
Q5671 or	IC	79M12HF(MPC79M12HF)	(1)	222790125NEC	
Q5671 or	IC	79M12F(AN79M12F)	(1)	222790125MAT	
Q5671B	SCREW	3P+10FN(3BC)	1	82143010GR	
Q5684	TR	2SC1815-GR	1	2211255T	
Q5685	TR	2SA1015-GR	1	2211455T	
Q5700	TR	RN1402	1	2214470R2	
Q5701	TR	RN1402	1	2214470R2	
Q5901	IC	NJM4580M-D	1	22241448R2	
Q5903	TR	RN1441	1	2215410R2	
Q5904	TR	RN1441	1	2215410R2	
Q5905	TR	RN1441	1	2215410R2	
Q5906	TR	RN1441	1	2215410R2	
Q6000	TR	2SC1740S-S	1	2213285T	
Q6001	TR	2SC1740S-S	1	2213285T	
Q6002	TR	2SC1740S-S	1	2213285T	
Q6003	TR	2SC1740S-S	1	2213285T	
Q6004	TR	2SC1740S-S	1	2213285T	
Q6005	TR	2SC1740S-S	1	2213285T	
Q6006	TR	2SC1740S-S	1	2213285T	
Q6010	TR	2SC1740S-S	1	2213285T	
Q6011	TR	2SC1740S-S	1	2213285T	
Q6012	TR	2SC1740S-S	1	2213285T	

Q6013	TR	2SC1740S-S	1	2213285T
Q6014	TR	2SC1740S-S	1	2213285T
Q6015	TR	2SC1740S-S	1	2213285T
Q6016	TR	2SC1740S-S	1	2213285T
Q6030	TR	2SC5171(ONK_Q)	1	2203010
Q6030 or	TR	2SC5993-Q_P	(1)	2217161
Q6031	TR	2SC5171(ONK_Q)	1	2203010
Q6031 or	TR	2SC5993-Q_P	(1)	2217161
Q6032	TR	2SC5171(ONK_Q)	1	2203010
Q6032 or	TR	2SC5993-Q_P	(1)	2217161
Q6033	TR	2SC5171(ONK_Q)	1	2203010
Q6033 or	TR	2SC5993-Q_P	(1)	2217161
Q6034	TR	2SC5171(ONK_Q)	1	2203010
Q6034 or	TR	2SC5993-Q_P	(1)	2217161
Q6035	TR	2SC5171(ONK_Q)	1	2203010
Q6035 or	TR	2SC5993-Q_P	(1)	2217161
Q6036	TR	2SC5171(ONK_Q)	1	2203010
Q6036 or	TR	2SC5993-Q_P	(1)	2217161
Q6040	TR	2SA1930(ONK_Q)	1	2203000
Q6040 or	TR	2SA2140-Q_P	(1)	2217151
Q6041	TR	2SA1930(ONK_Q)	1	2203000
Q6041 or	TR	2SA2140-Q_P	(1)	2217151
Q6042	TR	2SA1930(ONK_Q)	1	2203000
Q6042 or	TR	2SA2140-Q_P	(1)	2217151
Q6043	TR	2SA1930(ONK_Q)	1	2203000
Q6043 or	TR	2SA2140-Q_P	(1)	2217151
Q6044	TR	2SA1930(ONK_Q)	1	2203000
Q6044 or	TR	2SA2140-Q_P	(1)	2217151
Q6045	TR	2SA1930(ONK_Q)	1	2203000
Q6045 or	TR	2SA2140-Q_P	(1)	2217151
Q6046	TR	2SA1930(ONK_Q)	1	2203000
Q6046 or	TR	2SA2140-Q_P	(1)	2217151
Q6070	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6070 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6071	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6071 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6072	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6072 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6073	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6073 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6074	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6074 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6075	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6075 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6076	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6076 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6221	PHT CP	PC817X	1	24120080
Q6222	TR	RN1402	1	2214470R2
Q6223	TR	RN1402	1	2214470R2
Q6226	TR	2SB1068-U-AZ	1	2212855T
Q6226 or	TR	2SB1068-K-AZ	(1)	2212853T
Q6227	TR	RN1402	1	2214470R2
Q6311	IC	ICL3221ECVZ	1	22242268R2
Q6380	IC	LM61CIZ	1	22242212
Q6380A	RETAINER	(PTH)	1	27141884-1
Q6701	TR	2SC2712-GR	1	2213145R2
Q6701 or	TR	KTC3875-GR	(1)	2216175R2
Q6702	TR	2SC2712-GR	1	2213145R2
Q6702 or	TR	KTC3875-GR	(1)	2216175R2
Q6703	TR	2SA1163-BL(TE85L_F)	1	2216756R2
Q6707	TR	2SC2712-GR	1	2213145R2
Q6707 or	TR	KTC3875-GR	(1)	2216175R2
D5671	ZENER D	DZ-7.5BSC	1	224850753T
D5671 or	ZENER D	MTZJ7.5C	(1)	224470753T
D5672	ZENER D	DZ-7.5BSC	1	224850753T
D5672 or	ZENER D	MTZJ7.5C	(1)	224470753T
D5700	DIODE	1SS133	1	223163T
D5701	DIODE	1SS133	1	223163T
D5707	C-DIODE	1SS352	1	223234R2
D5707 or	C-DIODE	KDS4148U	(1)	223283R2
D5707 or	C-DIODE	1SS355	(1)	223269R2
D5708	C-DIODE	1SS352	1	223234R2
D5708 or	C-DIODE	KDS4148U	(1)	223283R2
D5708 or	C-DIODE	1SS355	(1)	223269R2
D5717	C-DIODE	1SS352	1	223234R2
D5717 or	C-DIODE	KDS4148U	(1)	223283R2
D5717 or	C-DIODE	1SS355	(1)	223269R2
D5718	C-DIODE	1SS352	1	223234R2
D5718 or	C-DIODE	KDS4148U	(1)	223283R2
D5718 or	C-DIODE	1SS355	(1)	223269R2
D5901	C-DIODE	1SS352	1	223234R2
D5901 or	C-DIODE	KDS4148U	(1)	223283R2
D5901 or	C-DIODE	1SS355	(1)	223269R2
D5902	C-DIODE	1SS352	1	223234R2
D5902 or	C-DIODE	KDS4148U	(1)	223283R2
D5902 or	C-DIODE	1SS355	(1)	223269R2
D6000	C-DIODE	1SS352	1	223234R2
D6000 or	C-DIODE	KDS4148U	(1)	223283R2
D6000 or	C-DIODE	1SS355	(1)	223269R2

D6001	C-DIODE	1SS352	1	223234R2	
D6001 or	C-DIODE	KDS4148U	(1)	223283R2	
D6001 or	C-DIODE	1SS355	(1)	223269R2	
D6002	C-DIODE	1SS352	1	223234R2	
D6002 or	C-DIODE	KDS4148U	(1)	223283R2	
D6002 or	C-DIODE	1SS355	(1)	223269R2	
D6003	C-DIODE	1SS352	1	223234R2	
D6003 or	C-DIODE	KDS4148U	(1)	223283R2	
D6003 or	C-DIODE	1SS355	(1)	223269R2	
D6004	C-DIODE	1SS352	1	223234R2	
D6004 or	C-DIODE	KDS4148U	(1)	223283R2	
D6004 or	C-DIODE	1SS355	(1)	223269R2	
D6005	C-DIODE	1SS352	1	223234R2	
D6005 or	C-DIODE	KDS4148U	(1)	223283R2	
D6005 or	C-DIODE	1SS355	(1)	223269R2	
D6006	C-DIODE	1SS352	1	223234R2	
D6006 or	C-DIODE	KDS4148U	(1)	223283R2	
D6006 or	C-DIODE	1SS355	(1)	223269R2	
D6010	C-DIODE	1SS352	1	223234R2	
D6010 or	C-DIODE	KDS4148U	(1)	223283R2	
D6010 or	C-DIODE	1SS355	(1)	223269R2	
D6011	C-DIODE	1SS352	1	223234R2	
D6011 or	C-DIODE	KDS4148U	(1)	223283R2	
D6011 or	C-DIODE	1SS355	(1)	223269R2	
D6012	C-DIODE	1SS352	1	223234R2	
D6012 or	C-DIODE	KDS4148U	(1)	223283R2	
D6012 or	C-DIODE	1SS355	(1)	223269R2	
D6013	C-DIODE	1SS352	1	223234R2	
D6013 or	C-DIODE	KDS4148U	(1)	223283R2	
D6013 or	C-DIODE	1SS355	(1)	223269R2	
D6014	C-DIODE	1SS352	1	223234R2	
D6014 or	C-DIODE	KDS4148U	(1)	223283R2	
D6014 or	C-DIODE	1SS355	(1)	223269R2	
D6015	C-DIODE	1SS352	1	223234R2	
D6015 or	C-DIODE	KDS4148U	(1)	223283R2	
D6015 or	C-DIODE	1SS355	(1)	223269R2	
D6016	C-DIODE	1SS352	1	223234R2	
D6016 or	C-DIODE	KDS4148U	(1)	223283R2	
D6016 or	C-DIODE	1SS355	(1)	223269R2	
D6221	C-DIODE	1SS352	1	223234R2	
D6221 or	C-DIODE	1SS355	(1)	223269R2	
D6221 or	C-DIODE	KDS4148U	(1)	223283R2	
D6222	C-DIODE	1SS352	1	223234R2	
D6222 or	C-DIODE	1SS355	(1)	223269R2	
D6222 or	C-DIODE	KDS4148U	(1)	223283R2	
D6701	C-DIODE	1SS352	1	223234R2	
D6701 or	C-DIODE	KDS4148U	(1)	223283R2	
D6701 or	C-DIODE	1SS355	(1)	223269R2	
D6702	C-DIODE	1SS352	1	223234R2	
D6702 or	C-DIODE	KDS4148U	(1)	223283R2	
D6702 or	C-DIODE	1SS355	(1)	223269R2	
D6703	ZENER D	UDZS3.6B	1	224550360R2	
D6704	ZENER D	UDZS3.6B	1	224550360R2	
D6901	DIODE	D10XB60H	1	22380337	
D6901A	HEAT SINK	RAD-196	1	27160545	
D6901B	TAPE	TAPE(CLOTH-8U)	1	29110082	
D6901C	SCREW	3P+10FN(3BC)	2	82143010GR	
D6902	C-DIODE	1SS352	1	223234R2	
D6902 or	C-DIODE	KDS4148U	(1)	223283R2	
D6902 or	C-DIODE	1SS355	(1)	223269R2	
D6903	DIODE	D10XB60H	1	22380337	
D9001	DIODE	RL1N4003	1	22380260T	
D9001 or	DIODE	GP104003E	(1)	22380035T	
D9002	DIODE	RL1N4003	1	22380260T	
D9002 or	DIODE	GP104003E	(1)	22380035T	
D9003	DIODE	RL1N4003	1	22380260T	
D9003 or	DIODE	GP104003E	(1)	22380035T	
D9004	DIODE	RL1N4003	1	22380260T	
D9004 or	DIODE	GP104003E	(1)	22380035T	
L6001	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
C5501	C-CERA C	CC725CH1H-221J1	1	342102214R1	<SA705>
C5502	C-CERA C	CC725CH1H-221J1	1	342102214R1	<SA705>
C5503	TF C	ECQ-B50V-221K	1	374722215T	
C5504	TF C	ECQ-B50V-221K	1	374722215T	
C5507	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5508	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5509	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5510	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5513	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5514	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5517	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5518	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5519	TF C	ECQ-B50V-221K	1	374722215T	
C5520	TF C	ECQ-B50V-221K	1	374722215T	
C5521	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5522	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5523	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C5524	TF C	ECQ-B50V-221K	1	374722215T	
C5525	C-CERA C	CC725CH1H-221J1	1	342102214R1	

C5526	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5527	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5528	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5529	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5530	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5531	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5532	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5533	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5534	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5551	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5552	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5553	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5554	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5555	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5556	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5557	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5558	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5559	TF C	ECQ-V50V-47J	1	374724744T
C5560	TF C	ECQ-V50V-823J	1	374728234T
C5561	TF C	ECQ-B50V-223J	1	374722234T
C5562	TF C	ECQ-V50V-47J	1	374724744T
C5563	TF C	ECQ-V50V-823J	1	374728234T
C5564	TF C	ECQ-B50V-223J	1	374722234T
C5565	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5566	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C5569	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5570	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5571	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5572	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5573	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5574	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5575	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5576	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5600	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5601	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5602	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5603	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5604	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5605	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5606	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5607	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5608	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5609	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5630	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5631	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5632	TF C	ECQ-B50V-103J	1	374721034T
C5666	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5667	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5670	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5671	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5672	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5673	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5674	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
C5675	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
C5684	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C5685	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C5686	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5687	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5700	C-CERA C	CK725F1H-103Z1	1	332151030R1
C5701	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5702	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5703	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5704	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5705	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5706	C-CERA C	CC725CH1H-102J1	1	342101024R1
C5707	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5708	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5711	C-CERA C	CK725F1H-103Z1	1	332151030R1
C5901	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
C5902	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
C5905	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5906	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5907	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5908	C-CERA C	CC725CH1H-221J1	1	342102214R1
C5909	C-CERA C	CC725CH1H-221J1	1	342102214R1
C6001	C-CERA C	CK725B1H-223K1	1	332102235R1
C6002	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
C6003	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
C6004	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
C6005	C-CERA C	CK725B1H-223K1	1	332102235R1
C6006	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
C6007	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
C6030	TF C	ECQ-V50V-473J	1	374724734T
C6031	TF C	ECQ-V50V-473J	1	374724734T
C6032	TF C	ECQ-V50V-473J	1	374724734T
C6033	TF C	ECQ-V50V-473J	1	374724734T
C6034	TF C	ECQ-V50V-473J	1	374724734T
C6035	TF C	ECQ-V50V-473J	1	374724734T
C6036	TF C	ECQ-V50V-473J	1	374724734T

C6040	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6041	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6042	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6043	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6044	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6045	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6046	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C6050	TF C	ECQ-B50V-103J	1	374721034T	
C6051	TF C	ECQ-B50V-103J	1	374721034T	
C6052	TF C	ECQ-B50V-103J	1	374721034T	
C6053	TF C	ECQ-B50V-103J	1	374721034T	
C6054	TF C	ECQ-B50V-103J	1	374721034T	
C6055	TF C	ECQ-B50V-103J	1	374721034T	
C6056	TF C	ECQ-B50V-103J	1	374721034T	
C6221	C-CERA C	CK725B1H-223K1	1	332102235R1	
C6222	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
C6226	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C6229	C-CERA C	CK725B1H-103K1	1	332101035R1	
C6230	C-CERA C	CC725CH1H-471J1	1	342104714R1	
C6701	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
C6703	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C6704	UTSP C	CE04W50V-1M(UTSP)	1	397580107T	
C6706	UTSP C	CE04W50V-22M(UTSP)	1	397582207T	
C6901	ELECT C	CE69W71V-12000MON	1	3504458	<DC>
C6901	ELECT C	CE69W71V-12000MONAL	1	3504460	<DT, MP, MA, MO, MK, MQ, MT, SA705>
C6902	ELECT C	CE69W71V-12000MON	1	3504458	<DC>
C6902	ELECT C	CE69W71V-12000MONAL	1	3504460	<DT, MP, MA, MO, MK, MQ, MT, SA705>
C6911	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C6912	TF C	ECQ-V100-334J	1	374733344T	
C6913	TF C	ECQ-V100-334J	1	374733344T	
C6915	TF C	ECQ-V50V-104J	1	374721044T	
C6916	TF C	ECQ-V50V-104J	1	374721044T	
C9001	MMT C	MMT50V-334J	1	375523344T	
C9003	UTSP C	CE04W35V-1000M(UTSP)	1	397561027S	
C9004	VR C	CE04W35V-470M(VR)	1	394664717T	
R5001	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5002	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5500	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5501	C-CARBON R	RN72K1J-331JE	1	435033314R1	<SA705>
R5502	C-CARBON R	RN72K1J-331JE	1	435033314R1	<SA705>
R5503	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5504	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5505	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5506	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5507	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5508	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5509	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5510	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5513	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5514	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5515	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5516	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5517	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5518	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5519	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5520	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5521	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5522	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5523	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5524	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5525	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5526	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R5527	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5528	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5529	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5530	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5531	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5532	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5533	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5534	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5537	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5538	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5541	C-CARBON R	RN72K1J-224JE	1	435032244R1	<SA705>
R5542	C-CARBON R	RN72K1J-224JE	1	435032244R1	<SA705>
R5543	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5544	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5545	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5546	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5547	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5548	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5549	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5550	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5551	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5552	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5553	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5554	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5555	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5556	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5557	C-CARBON R	RN72K1J-224JE	1	435032244R1	

R5558	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5559	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5560	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5561	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5562	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5563	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5564	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5565	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5566	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5567	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5568	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5569	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5570	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5571	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5572	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5573	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5574	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R5575	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5576	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5577	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5578	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5579	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5580	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5581	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5582	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5583	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5585	C-CARBON R	RN72K1J-182JE	1	435031824R1	
R5586	C-CARBON R	RN72K1J-182JE	1	435031824R1	
R5587	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R5588	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R5589	CARBON R	R16J-1K	1	417341024T	
R5600	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5601	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5602	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5603	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5604	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5605	C-CARBON R	RN72K1J-224JE	1	435032244R1	
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R5608	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5609	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5610	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5611	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5612	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5613	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5614	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5615	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5616	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5617	C-CARBON R	RN72K1J-271JE	1	435032714R1	
R5618	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R5619	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R5620	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5621	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5622	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5623	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5624	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5625	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5626	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5627	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R5628	CARBON R	R16J-22	1	417342204T	<DC, DT>
R5628	METAL O R	RS1WBJ-680	1	443626814T	<MP, MA, MO, MK, MQ, MT, SA705>
R5630	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R5631	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R5632	C-CARBON R	RN72K1J-153JE	1	435031534R1	
R5633	C-CARBON R	RN72K1J-122JE	1	435031224R1	
R5634	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R5660	METAL R	RNU1WCJ-1.5	1	453630154T	
R5661	METAL R	RNU1WCJ-1.5	1	453630154T	
R5666	CARBON R	R16J-22	1	417342204T	
R5667	CARBON R	R16J-22	1	417342204T	
R5668	CARBON R	R16J-22	1	417342204T	<DC, DT>
R5668	METAL O R	RS1WBJ-680	1	443626814T	<MP, MA, MO, MK, MQ, MT, SA705>
R5671	METAL O R	RS2WBJ-47	1	441724704F	<DC, DT>
R5671	METAL O R	RS2WBJ-33	1	441723304F	<MP, MA, MO, MK, MQ, MT, SA705>
R5672	METAL O R	RS1WBJ-12	1	443621204T	<SR705>
R5672	METAL O R	RS1WBJ-15	1	443621504T	<SA705>
R5673	METAL O R	RS2WBJ-47	1	441724704F	<DC, DT>
R5673	METAL O R	RS2WBJ-33	1	441723304F	<MP, MA, MO, MK, MQ, MT, SA705>
R5674	METAL O R	RS1WBJ-68	1	443626804T	
R5675	METAL O R	RS1WBJ-68	1	443626804T	
R5677	METAL O R	RS2WBJ-8.2	1	441720824F	
R5678	METAL R	RNU1WCJ-2.2	1	453630224T	<DC, DT>
R5678	METAL R	RNU1WCJ-0.47	1	453634794T	<MP, MA, MO, MK, MQ, MT, SA705>
R5680	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5681	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5682	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R5684	CARBON R	R16J-680	1	417346814T	
R5685	CARBON R	R16J-680	1	417346814T	
R5800	C-CARBON R	RN72K1J-000JE	1	435030004R1	

R5801	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5802	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5805	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5806	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5807	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5808	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5809	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5810	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5811	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5812	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5813	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5820	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5822	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5823	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5824	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5827	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5828	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5829	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5830	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5831	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5901	C-CARBON R	RN72K1J-220JE	1	435032204R1
R5902	C-CARBON R	RN72K1J-220JE	1	435032204R1
R5903	C-CARBON R	RN72K1J-223JE	1	435032234R1
R5904	C-CARBON R	RN72K1J-223JE	1	435032234R1
R5905	C-CARBON R	RN72K1J-223JE	1	435032234R1
R5906	C-CARBON R	RN72K1J-223JE	1	435032234R1
R5907	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5908	C-CARBON R	RN72K1J-000JE	1	435030004R1
R5909	C-CARBON R	RN72K1J-224JE	1	435032244R1
R5910	C-CARBON R	RN72K1J-224JE	1	435032244R1
R5911	C-CARBON R	RN72K1J-271JE	1	435032714R1
R5912	C-CARBON R	RN72K1J-271JE	1	435032714R1
R5913	C-CARBON R	RN72K1J-101JE	1	435031014R1
R5914	C-CARBON R	RN72K1J-101JE	1	435031014R1
R5915	C-CARBON R	RN72K1J-224JE	1	435032244R1
R5916	C-CARBON R	RN72K1J-224JE	1	435032244R1
R5917	C-CARBON R	RN72K1J-101JE	1	435031014R1
R5918	C-CARBON R	RN72K1J-101JE	1	435031014R1
R6000	CARBON R	R16J-5.6K	1	417345624T
R6001	CARBON R	R16J-5.6K	1	417345624T
R6002	CARBON R	R16J-5.6K	1	417345624T
R6003	CARBON R	R16J-5.6K	1	417345624T
R6004	CARBON R	R16J-5.6K	1	417345624T
R6005	CARBON R	R16J-5.6K	1	417345624T
R6006	CARBON R	R16J-5.6K	1	417345624T
R6010	CARBON R	R16J-3.9K	1	417343924T
R6011	CARBON R	R16J-3.9K	1	417343924T
R6012	CARBON R	R16J-3.9K	1	417343924T
R6013	CARBON R	R16J-3.9K	1	417343924T
R6014	CARBON R	R16J-3.9K	1	417343924T
R6015	CARBON R	R16J-3.9K	1	417343924T
R6016	CARBON R	R16J-3.9K	1	417343924T
R6020	NF CARBON R	R25J-2.2	1	415470224T
R6021	NF CARBON R	R25J-2.2	1	415470224T
R6022	NF CARBON R	R25J-2.2	1	415470224T
R6023	NF CARBON R	R25J-2.2	1	415470224T
R6024	NF CARBON R	R25J-2.2	1	415470224T
R6025	NF CARBON R	R25J-2.2	1	415470224T
R6026	NF CARBON R	R25J-2.2	1	415470224T
R6030	CARBON R	R16J-470	1	417344714T
R6031	CARBON R	R16J-470	1	417344714T
R6032	CARBON R	R16J-470	1	417344714T
R6033	CARBON R	R16J-470	1	417344714T
R6034	CARBON R	R16J-470	1	417344714T
R6035	CARBON R	R16J-470	1	417344714T
R6036	CARBON R	R16J-470	1	417344714T
R6040	TRIM R	N06HR2KBC	1	5210390T
R6041	TRIM R	N06HR2KBC	1	5210390T
R6042	TRIM R	N06HR2KBC	1	5210390T
R6043	TRIM R	N06HR2KBC	1	5210390T
R6044	TRIM R	N06HR2KBC	1	5210390T
R6045	TRIM R	N06HR2KBC	1	5210390T
R6046	TRIM R	N06HR2KBC	1	5210390T
R6050	CARBON R	R16J-3.3K	1	417343324T
R6051	CARBON R	R16J-3.3K	1	417343324T
R6052	CARBON R	R16J-3.3K	1	417343324T
R6053	CARBON R	R16J-3.3K	1	417343324T
R6054	CARBON R	R16J-3.3K	1	417343324T
R6055	CARBON R	R16J-3.3K	1	417343324T
R6056	CARBON R	R16J-3.3K	1	417343324T
R6070	NF CARBON R	R25J-82	1	415478204T
R6071	NF CARBON R	R25J-82	1	415478204T
R6072	NF CARBON R	R25J-82	1	415478204T
R6073	NF CARBON R	R25J-120	1	415471214T
R6074	NF CARBON R	R25J-120	1	415471214T
R6075	NF CARBON R	R25J-120	1	415471214T
R6076	NF CARBON R	R25J-120	1	415471214T
R6080	NF CARBON R	R25J-0.22	1	415472294T
R6081	NF CARBON R	R25J-0.22	1	415472294T

R6082	NF CARBON R	R25J-0.22	1	415472294T
R6083	NF CARBON R	R25J-0.22	1	415472294T
R6084	NF CARBON R	R25J-0.22	1	415472294T
R6085	NF CARBON R	R25J-0.22	1	415472294T
R6086	NF CARBON R	R25J-0.22	1	415472294T
R6090	NF CARBON R	R25J-0.22	1	415472294T
R6091	NF CARBON R	R25J-0.22	1	415472294T
R6092	NF CARBON R	R25J-0.22	1	415472294T
R6093	NF CARBON R	R25J-0.22	1	415472294T
R6094	NF CARBON R	R25J-0.22	1	415472294T
R6095	NF CARBON R	R25J-0.22	1	415472294T
R6096	NF CARBON R	R25J-0.22	1	415472294T
R6100	METAL PR	MPR5W+5W 0R22	1	4000233
R6100 or	METAL PR	RGCS5 0.22	(1)	4000132
R6101	METAL PR	MPR5W+5W 0R22	1	4000233
R6101 or	METAL PR	RGCS5 0.22	(1)	4000132
R6102	METAL PR	MPR5W+5W 0R22	1	4000233
R6102 or	METAL PR	RGCS5 0.22	(1)	4000132
R6103	METAL PR	MPR5W+5W 0R22	1	4000233
R6103 or	METAL PR	RGCS5 0.22	(1)	4000132
R6104	METAL PR	MPR5W+5W 0R22	1	4000233
R6104 or	METAL PR	RGCS5 0.22	(1)	4000132
R6105	METAL PR	MPR5W+5W 0R22	1	4000233
R6105 or	METAL PR	RGCS5 0.22	(1)	4000132
R6106	METAL PR	MPR5W+5W 0R22	1	4000233
R6106 or	METAL PR	RGCS5 0.22	(1)	4000132
R6130	METAL R	RNU1WCJ-5.6	1	453630564T
R6131	METAL R	RNU1WCJ-5.6	1	453630564T
R6132	METAL R	RNU1WCJ-5.6	1	453630564T
R6133	METAL R	RNU1WCJ-5.6	1	453630564T
R6134	METAL R	RNU1WCJ-5.6	1	453630564T
R6135	METAL R	RNU1WCJ-5.6	1	453630564T
R6136	METAL R	RNU1WCJ-5.6	1	453630564T
R6140	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6141	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6142	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6143	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6144	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6145	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6146	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6150	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6151	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6152	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6153	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6154	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6155	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6156	C-CARBON R	RN72K1J-123JE	1	435031234R1
R6160	CARBON R	R16J-33K	1	417343334T
R6161	CARBON R	R16J-33K	1	417343334T
R6162	CARBON R	R16J-33K	1	417343334T
R6163	CARBON R	R16J-33K	1	417343334T
R6164	CARBON R	R16J-33K	1	417343334T
R6165	CARBON R	R16J-33K	1	417343334T
R6166	CARBON R	R16J-33K	1	417343334T
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R6172	CARBON R	R16J-47K	1	417344734T
R6173	CARBON R	R16J-47K	1	417344734T
R6174	CARBON R	R16J-47K	1	417344734T
R6175	CARBON R	R16J-47K	1	417344734T
R6176	CARBON R	R16J-47K	1	417344734T
R6180	CARBON R	R16J-47K	1	417344734T
R6181	CARBON R	R16J-47K	1	417344734T
R6182	CARBON R	R16J-47K	1	417344734T
R6183	CARBON R	R16J-47K	1	417344734T
R6184	CARBON R	R16J-47K	1	417344734T
R6185	CARBON R	R16J-47K	1	417344734T
R6186	CARBON R	R16J-47K	1	417344734T
R6190	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6191	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6192	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6193	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6194	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6195	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6196	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6197	METAL O R	RS1/2WBJ-10	1	443521004T
R6206	C-CARBON R	RN72K1J-331JE	1	435033314R1
R6207	C-CARBON R	RN72K1J-331JE	1	435033314R1
R6208	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6209	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6210	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6211	C-CARBON R	RN72K1J-331JE	1	435033314R1
R6212	C-CARBON R	RN72K1J-331JE	1	435033314R1
R6221	C-CARBON R	RN72K1J-101JE	1	435031014R1
R6222	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6223	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6224	C-CARBON R	RN72K1J-332JE	1	435033324R1
R6226	C-CARBON R	RN72K1J-104JE	1	435031044R1
R6227	C-CARBON R	RN72K1J-033JE	1	435030334R1

R6228	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R6701	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R6702	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R6704	C-CARBON R	RN72K1J-563JE	1	435035634R1	
R6706	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R6708	C-CARBON R	RN72K1J-333JE	1	435033334R1	
R6709	C-CARBON R	RN72K1J-392JE	1	435033924R1	
R6710	C-CARBON R	RN72K1J-123JE	1	435031234R1	
R6902	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R6903	C-CARBON R	RN72K1J-473JE	1	435034734R1	
RL5700	RELAY	NRL-2P2A-DC24-174	1	25065659	<DC, DT>
RL5700	RELAY	NRL-2P2A-DC12-178	1	25065664	<MP, MA, MO, MK, MQ, MT, SA705>
RL5701	RELAY	NRL-2P2A-DC24-174	1	25065659	<DC, DT>
RL5701	RELAY	NRL-2P2A-DC12-178	1	25065664	<MP, MA, MO, MK, MQ, MT, SA705>
RL6901	RELAY	NRL-1P10A-DC12-140	1	25065584	
RL6901A	TAPE	TAPE(CLOTH-16U)	1	29110083	
RL6902	RELAY	NRL-1P10A-DC12-140	1	25065584	
RL6902A	TAPE	TAPE(CLOTH-16U)	1	29110083	
F6901A	FUSE HOLDER	SN5051	1	250113	!
F6901B	FUSE HOLDER	SN5051	1	250113	!
F6902A	FUSE HOLDER	SN5051	1	250113	!
F6902B	FUSE HOLDER	SN5051	1	250113	!
JL5502A	WIRE HOL	NSCT-7P878	1	25051091	<DC>
JL6018A	WIRE HOL	NSCT-4P875	1	25051088	
JL6402A	WIRE HOL	NSCT-3P874	1	25051087	
JL6600A	WIRE HOL	NSCT-7P898	1	25051111	
JL6603A	WIRE HOL	NSCT-9P900	1	25051113	
JL6605A	WIRE HOL	NSCT-7P878	1	25051091	
JL6605B	WIRE HOL	NSCT-7P878	1	25051091	
JL6952A	WIRE HOL	NSCT-4P895	1	25051108	
JL6952B	WIRE HOL	NSCT-4P895	1	25051108	
P301	PLUG	NPLG-8P0963	1	25056013	
P302	PLUG	NPLG-14P0969	1	25056019	
P303	PLUG	NPLG-17P0972	1	25056022	
P304	PLUG	NPLG-3P0958	1	25056008	
P5503	CRIMP AS	CRIMP AS	1	2069955120UL	
P5504	SOCKET AS	NSAS-26P1612	1	2009991020UL	
P5505	TRM(SCREW)	NEJITANSI M3	1	25065425	
P5507	TRM	NTM-1P232(M1700)	1	25060301	
P5901	PIN JACK	NPJ-2PDWR558	1	25045776	
P5901 or	PIN JACK	NPJ-2PDBL185	(1)	25045333	
P6000B	PLUG	NPLG-5P0960	1	25056010	
P6001B	PLUG	NPLG-5P0960	1	25056010	
P6002B	PLUG	NPLG-5P0960	1	25056010	
P6003B	PLUG	NPLG-5P0960	1	25056010	
P6004B	PLUG	NPLG-5P0960	1	25056010	
P6005B	PLUG	NPLG-5P0960	1	25056010	
P6006B	PLUG	NPLG-5P0960	1	25056010	
P6011	SOCKET	7906-09FHA	1	25053103	
P6011A	RETAINER	(BUS-D)	1	27142035	
P6019A	SOCKET AS	NSAS-6P1701	1	2002A290655UL	<SA705>
P6050	HOLDER	HOLDER(CLAMP)	1	27190540-1	
P6080	PLUG	NPLG-2P29	1	25055038	
P6081	PLUG	NPLG-2P29	1	25055038	
P6082	PLUG	NPLG-2P29	1	25055038	
P6083	PLUG	NPLG-2P29	1	25055038	
P6084	PLUG	NPLG-2P29	1	25055038	
P6085	PLUG	NPLG-2P29	1	25055038	
P6086	PLUG	NPLG-2P29	1	25055038	
P6100	HOLDER	HOLDER(CLAMP)	1	27190540-1	
P6101	HOLDER	(CRAMP) UA-0 V0	1	27190608-1	
P6102	HOLDER	(CRAMP) UA-0 V0	1	27190608-1	
P6221	ST JACK	HSJ1002-01-6020	1	25045647	
P6900	CRIMP AS	CRIMP AS	1	20799165UL	
P6901	CRIMP AS	CRIMP AS	1	2069925189UL	
P6902	CRIMP AS	CRIMP AS	1	2069925266UL	
P6903	CRIMP AS	CRIMP AS	1	20799163UL	
P6904	CRIMP AS	CRIMP AS	1	20799164UL	
P6910	CRIMP AS	PVCAS-TXSR604	1	20799167UL	
P6991	TRM(SCREW)	NEJITANSI M3	1	25065425	
P7900	ST JACK	LGY2502-0200FC	1	25045696	
P7901	PIN JACK	NPJ-2PDWR558	1	25045776	<SA705>
P7901 or	PIN JACK	NPJ-2PDBL185	(1)	25045333	<SA705>
P7902	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
P7902 or	PIN JACK	NPJ-6PDBL159	(1)	25045300	
P7903	PIN JACK	NPJ-2PDWR558	1	25045776	
P7903 or	PIN JACK	NPJ-2PDBL185	(1)	25045333	
P7904	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
P7904 or	PIN JACK	NPJ-6PDBL159	(1)	25045300	
P7905	PIN JACK	NPJ-4PDWLRE642	1	25045866	
P7906	PIN JACK	NPJ-4PDGNPT643	1	25045867	
P7907	PIN JACK	NPJ-4PDWLRE642	1	25045866	
P7908	PIN JACK	NPJ-4PDGNPT643	1	25045867	

U06	DISPLAY PC BOARD(NADIS-9148-2A/2B/2C/2F)
U07	DISPLAY PC BOARD(NADIS-9149-2A/2B/2C/2F)
U08	POWER SUPPLY PC BOARD(NAPS-9150-2A/2B/2C/2F)
U09	POWER SUPPLY PC BOARD(NAPS-9151-2A/2B/2C/2F)
U10	FRONT OPT PC BOARD(NAETC-9152-2A/2B/2C/2F)

U11	HEADPHONE JACK PC BOARD(NAETC-9153-2A/2B/2C/2F)
U12	INLET PC BOARD(NAETC-9155-2B/2C/2F)
U15	HOLDER PC BOARD(NAETC-9160-2A/2B/2C/2F)
U16	DISPLAY PC BOARD(NAETC-9161-2A/2B/2C/2F)

CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
U7042	REMO SENS	NJL34H380A	1	241365	
U7351	PHT CP	GP1FAV51RK0F	1	24120129	
Q7002	FL TUBE	16-BT-138GNK	1	212268	
Q7002A	HOLDER	(FL)	1	27191222C	
Q7003	IC	M66005-0001AHP	1	22242208R3	
Q7004	TR	2SC2458-GR	1	2212115T	
Q7004 or	TR	2SC1740S-R	(1)	2213284T	
Q7004 or	TR	2SC1740S-S	(1)	2213285T	
Q7005	TR	KRA102M	1	2215770T	
Q7005 or	TR	DTA114ES	(1)	2213510T	
Q7006 or	TR	DTC114ES	(0)	2213290T	
Q7007	TR	KRC102M	1	2215960T	
Q7007 or	TR	DTC114ES	(1)	2213290T	
Q7151	TR	DTA114ES	1	2213510T	
Q7152	TR	KRC102M	1	2215960T	
Q7152 or	TR	DTC114ES	(1)	2213290T	
Q7401	IC	NJM4580D-D	1	22241112	
Q7403	TR	KRC111M	1	2216320T	
Q7403 or	TR	DTC114TS	(1)	221299T	
Q7404	TR	KRC111M	1	2216320T	
Q7404 or	TR	DTC114TS	(1)	221299T	
Q7405	TR	KRA102M	1	2215770T	<DT, MP, MA, MO, MK, MQ, MT, SA705>
Q7405 or	TR	DTA114ES	(1)	2213510T	<DT, MP, MA, MO, MK, MQ, MT, SA705>
D7001	LED	SDPB3DD0C0000-ABCDEF	1	225473	
D7002	ZENER D	MTZJ8.2C	1	224470823T	
D7152	LED	SLI-343URC-TE7	1	225449T	<DT, MP, MA, MO, MK, MQ, MT, SA705>
D7154	LED	SDPB3DD0C0000-ABCDEF	1	225473	
D7155	LED	SLR-342MGTE7P	1	225455T	
D7401	ZENER D	MTZJ5.1B	1	224470512T	
D7411	ZENER D	MTZJ6.8C	1	224470683T	
D7411 or	ZENER D	DZ-6.8BSC	(1)	224850683T	
D7412	ZENER D	MTZJ6.8C	1	224470683T	
D7412 or	ZENER D	DZ-6.8BSC	(1)	224850683T	
D7413	LED	SLI-343URC-TE7	1	225449T	<DC>
D7413	LED	SEL2910A-TP6	1	225390T	<DT, MP, MA, MO, MK, MQ, MT, SA705>
D911	DIODE	1SS133	1	223163T	
D912	DIODE	1SS133	1	223163T	
D921	DIODE	1SS133	1	223163T	
D922	DIODE	1SS133	1	223163T	
D923	DIODE	1SS133	1	223163T	
D924	DIODE	1SS133	1	223163T	
D925	DIODE	1SS133	1	223163T	
D930	DIODE	1SS133	1	223163T	
D931	DIODE	1SS133	1	223163T	
D933	DIODE	1SS133	1	223163T	
D934	ZENER D	MTZJ5.1B	1	224470512T	
D935	DIODE	1SS133	1	223163T	
L7031	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7032	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7201	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7202	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7203	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7351	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7401	CHOKE COIL	NCH-1561 022K	1	233526K022T	
L7402	CHOKE COIL	NCH-1561 022K	1	233526K022T	
T902	P TRANS	NPT-1520JQ	1	2301812A	!, <DC, DT>
T902	P TRANS	NPT-1520GQ	1	2301813A	!, <MP, MA, MO, MK, MQ, MT, SA705>
C7001	CERA C	CK45F50V-223Z	1	335622230T	
C7002	MMT C	MMT50V-104J	1	375521044T	
C7003	CERA C	CC45SL50V-101J	1	345021014T	
C7004	CERA C	CC45SL50V-101J	1	345021014T	
C7005	CERA C	CC45SL50V-101J	1	345021014T	
C7007	CERA C	CC45SL50V-101J	1	345021014T	
C7008	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C7009	MMT C	MMT50V-104J	1	375521044T	
C7010	CERA C	CK45F50V-223Z	1	335622230T	
C7011	CERA C	CK45F50V-223Z	1	335622230T	
C7012	CERA C	CK45F50V-223Z	1	335622230T	
C7013	UTSP C	CE04W50V-47M(UTSP)	1	397584707T	
C7014	CERA C	CK45F50V-223Z	1	335622230T	
C7015	ELECT C	CE04W16V-47M(S)	1	353744709T	
C7016	CERA C	CK45F50V-223Z	1	335622230T	
C7017	CERA C	CK45F50V-223Z	1	335622230T	
C7018	ELECT C	CE04W50V-10M	1	355781009T	
C7021	CERA C	CK45F50V-103Z	1	335621030T	
C7022	CERA C	CK45F50V-103Z	1	335621030T	
C7031	CERA C	CK45F50V-223Z	1	335622230T	
C7032	CERA C	CK45F50V-223Z	1	335622230T	
C7045	ELECT C	CE04W6.3V-100M(S)	1	353721019T	
C7047	CERA C	CK45B50V-102K	1	335321025T	
C7201	TF C	ECQ-B50V-472J	1	374724724T	
C7202	TF C	ECQ-B50V-472J	1	374724724T	
C7203	TF C	ECQ-B50V-102J	1	374721024T	

C7204	TF C	ECQ-B50V-102J	1	374721024T	
C7301	TF C	ECQ-B50V-471J	1	374724714T	
C7302	TF C	ECQ-B50V-471J	1	374724714T	
C7303	MMT C	MMT50V-104J	1	375521044T	
C7304	MMT C	MMT50V-104J	1	375521044T	
C7305	TF C	ECQ-V50V-104J	1	374721044T	
C7351	CERA C	CK45F50V-223Z	1	335622230T	
C7352	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C7401	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C7402	CERA C	CC45SL50V-101J	1	345021014T	
C7403	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C7404	CERA C	CC45SL50V-330J	1	345023304T	
C7405	ELECT C	CE04W16V-10M(S)	1	353741009T	
C7411	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C7412	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C7421	CERA C	CC45SL50V-102J	1	345021024T	
C901	IS C	ECQU2A103MLC	1	3800039S	!
C901 or	IS C	RE275V-103M	(1)	3500196S	!
C901 or	IS C	LE103-C3.5	(1)	3800042S	!
C902	TF C	ECQ-V50V-104J	1	374721044T	
C9101	MMT C	MMT50V-104J	1	375521044T	
C911	TF C	ECQ-B50V-102J	1	374721024T	
C921	TF C	ECQ-B50V-223J	1	374722234T	
C922	VR C	CE04W25V-2200M(VR)	1	394652227S	
C930	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
C933	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
R7001	CARBON R	R16J-100K	1	417341044T	
R7002	CARBON R	R16J-3.3K	1	417343324T	
R7003	CARBON R	R16J-3.3K	1	417343324T	
R7004	CARBON R	R16J-220	1	417342214T	
R7005	CARBON R	R16J-220	1	417342214T	
R7006	CARBON R	R16J-27K	1	417342734T	
R7007	CARBON R	R16J-220	1	417342214T	
R7008	CARBON R	R16J-220	1	417342214T	
R7013	CARBON R	R16J-560	1	417345614T	
R7023	CARBON R	R16J-470	1	417344714T	
R7024	CARBON R	R16J-470	1	417344714T	
R7045	CARBON R	R16J-100	1	417341014T	
R7046	CARBON R	R16J-1K	1	417341024T	
R7101	CARBON R	R16J-330	1	417343314T	
R7102	CARBON R	R16J-470	1	417344714T	
R7103	CARBON R	R16J-820	1	417348214T	
R7104	CARBON R	R16J-1.2K	1	417341224T	
R7105	CARBON R	R16J-2.2K	1	417342224T	
R7107	CARBON R	R16J-330	1	417343314T	
R7108	CARBON R	R16J-470	1	417344714T	
R7109	CARBON R	R16J-560	1	417345614T	
R7110	CARBON R	R16J-820	1	417348214T	
R7111	CARBON R	R16J-1.2K	1	417341224T	
R7112	CARBON R	R16J-2.2K	1	417342224T	
R7113	CARBON R	R16J-3.9K	1	417343924T	
R7114	CARBON R	R16J-12K	1	417341234T	
R7115	CARBON R	R16J-330	1	417343314T	
R7116	CARBON R	R16J-470	1	417344714T	
R7117	CARBON R	R16J-560	1	417345614T	
R7118	CARBON R	R16J-820	1	417348214T	
R7119	CARBON R	R16J-1.2K	1	417341224T	
R7120	CARBON R	R16J-2.2K	1	417342224T	
R7121	CARBON R	R16J-3.9K	1	417343924T	
R7122	CARBON R	R16J-12K	1	417341234T	
R7123	CARBON R	R16J-330	1	417343314T	
R7124	CARBON R	R16J-470	1	417344714T	
R7125	CARBON R	R16J-560	1	417345614T	
R7126	CARBON R	R16J-820	1	417348214T	
R7127	CARBON R	R16J-1.2K	1	417341224T	
R7128	CARBON R	R16J-2.2K	1	417342224T	
R7129	CARBON R	R16J-3.9K	1	417343924T	
R7130	CARBON R	R16J-12K	1	417341234T	
R7151	CARBON R	R16J-1K	1	417341024T	
R7152	CARBON R	R16J-120	1	417341214T	
R7154	CARBON R	R16J-180	1	417341814T	
R7301	CARBON R	R16J-330	1	417343314T	
R7302	CARBON R	R16J-330	1	417343314T	
R7351	CARBON R	R16J-220	1	417342214T	
R7401	CARBON R	R16J-100	1	417341014T	
R7402	CARBON R	R16J-47K	1	417344734T	
R7403	CARBON R	R16J-4.7K	1	417344724T	
R7404	CARBON R	R16J-220	1	417342214T	
R7405	CARBON R	R16J-47K	1	417344734T	
R7406	CARBON R	R16J-330	1	417343314T	
R7407	CARBON R	R16J-1K	1	417341024T	
R7408	CARBON R	R16J-33K	1	417343334T	
R7409	CARBON R	R16J-220	1	417342214T	
R7410	CARBON R	R16J-220	1	417342214T	
R7411	CARBON R	R16J-470	1	417344714T	
R7412	CARBON R	R16J-470	1	417344714T	
R7413	CARBON R	R16J-220K	1	417342244T	
R7414	CARBON R	R16J-100K	1	417341044T	
R7415	CARBON R	R16J-180	1	417341814T	<DT, MP, MA, MO, MK, MQ, MT, SA705>

R9102	METAL R	RNU1/2WCJ-3.3	1	453530334T	
R921	METAL O R	RS1/2WBJ-56	1	443525604T	
R934	CARBON R	R16J-100K	1	417341044T	
RL901	RELAY	NRL-1P10A-DC9-186	1	25065683	!
RL901A	TAPE	TAPE(CLOTH-16U)	1	29110083	
E7201	TRM(SCREW)	NEJITANSI M3	1	25065425	
E7301	RETAINER	(S)	1	27142074	
E7601	TRM(SCREW)	NEJITANSI M3	1	25065425	
E901	TRM(SCREW)	NEJITANSI M3	1	25065425	
E902	TRM(SCREW)	NEJITANSI M3	1	25065425	
F901C	FUSE HOL	NSCT-1P2031	1	25052133T	!
F901D	FUSE HOL	NSCT-1P2031	1	25052133T	!
F901E	FUSE LABEL	10A/125V	1	29362241	!, <DC, DT>
F901E	LABEL	T5AL250V	1	29361938	!, <MP, MA, MO, MK, MQ, MT, SA705>
F903A	FUSE HOL	NSCT-1P2031	1	25052133T	!, <DC, MP>
F903B	FUSE HOL	NSCT-1P2031	1	25052133T	!, <DC, MP>
F903C	LABEL	T2.5AL250V	1	29361747	!, <MP>
F903D	LABEL	5A/125V	1	29360462	!, <DC>
F910A	FUSE HOL	NSCT-1P2031	1	25052133T	!
F910B	FUSE HOL	NSCT-1P2031	1	25052133T	!
F910C	LABEL	5A/125V	1	29360462	!
JL6605A	WIRE HOL	NSCT-5P896	1	25051109	
JL7101A	WIRE HOL	NSCT-9P900	1	25051113	
JL7101B	WIRE HOL	NSCT-9P900	1	25051113	
JL7351A	WIRE HOL	NSCT-3P894	1	25051107	
JL7351B	WIRE HOL	NSCT-3P894	1	25051107	
JL901A	WIRE HOL	NSCT-5P876	1	25051089	
JL9101A	WIRE HOL	NSCT-6P897	1	25051110	
P701B	SOCKET	NSCT-36P2166	1	25052269	
P7201	ST JACK	MSJ-064-05A SR	1	25045783	
P7201 or	ST JACK	YKB21-5005	(1)	25045724	
P7301	PIN JACK	NPJ-7PDB477	1	25045680	
P7303	SOCKET AS	NSAS-4P1127	1	2002E390415UL	
P7401	ST JACK	MSJ-035-05C B AG SR type	1	25045879	
P901A	PLUG	NPLG-2P631	1	25055675	!, <DC>
P901Aor	PLUG	1-1123724-2	(1)	25056402	!, <DC>
P902	AC OUTLET	AC-181-UL-11V	1	25053030	!, <DC>
P902	SOCKET	NSCT-2P1359	1	25051572	!, <MP>
P907	AC INLET	NPLG-2P913	1	25055960	!, <DT, MP, MA, MO, MK, MQ, MT, SA705>
P911	PLUG	NPLG-2P631	1	25055675	!
P911 or	PLUG	1-1123724-2	(1)	25056402	!
P921	CRIMP AS	CRIMP AS	1	206CC45109UL	<DT, MP, MA, MO, MK, MQ, MT, SA705>
P922	CRIMP AS	CRIMP AS	1	206CC45101UL	<DT, MP, MA, MO, MK, MQ, MT, SA705>
S7002	R ENCODE	EC12E2425WITH WASHER	1	25065655W	
S7102	PUSH SW	NPS-111-S681	1	25035718T	
S7104	PUSH SW	NPS-111-S681	1	25035718T	
S7106	PUSH SW	NPS-111-S681	1	25035718T	
S7108	PUSH SW	NPS-111-S681	1	25035718T	
S7110	PUSH SW	NPS-111-S681	1	25035718T	
S7112	PUSH SW	NPS-111-S681	1	25035718T	
S7113	PUSH SW	NPS-111-S681	1	25035718T	
S7114	PUSH SW	NPS-111-S681	1	25035718T	
S7116	PUSH SW	NPS-111-S681	1	25035718T	
S7118	PUSH SW	NPS-111-S681	1	25035718T	
S7120	PUSH SW	NPS-111-S681	1	25035718T	
S7122	PUSH SW	NPS-111-S681	1	25035718T	
S7124	PUSH SW	NPS-111-S681	1	25035718T	
S7126	PUSH SW	NPS-111-S681	1	25035718T	
S7128	PUSH SW	NPS-111-S681	1	25035718T	
S7130	PUSH SW	NPS-111-S681	1	25035718T	
S7132	PUSH SW	NPS-111-S681	1	25035718T	
S7134	PUSH SW	NPS-111-S681	1	25035718T	
S7136	PUSH SW	NPS-111-S681	1	25035718T	
S7138	PUSH SW	NPS-111-S681	1	25035718T	
S7140	PUSH SW	NPS-111-S681	1	25035718T	
S7142	PUSH SW	NPS-111-S681	1	25035718T	
S7144	PUSH SW	NPS-111-S681	1	25035718T	
S7146	PUSH SW	NPS-111-S681	1	25035718T	
S7148	PUSH SW	NPS-111-S681	1	25035718T	
S7150	PUSH SW	NPS-111-S681	1	25035718T	
S7152	PUSH SW	NPS-111-S681	1	25035718T	
S7154	PUSH SW	NPS-111-S681	1	25035718T	
S7156	PUSH SW	NPS-111-S681	1	25035718T	
S7158	PUSH SW	NPS-111-S681	1	25035718T	
S7160	PUSH SW	NPS-111-S681	1	25035718T	
S7162	PUSH SW	NPS-111-S681	1	25035718T	
S7164	PUSH SW	NPS-111-S681	1	25035718T	
S7166	PUSH SW	NPS-111-S681	1	25035718T	

U17	DAC AND MICROPROCESSOR PC BOARD(NADG-9269-1A/1B/1C/1D)
U18	VIDEO AND SP TERMINAL PC BOARD(NAVD-9270-1A/1B/1C/1D)
U20	XM PC BOARD(NARF-9267-1A)

CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
U1001	PHT CP	GP1FAV51TK0F	1	24120128	
U1002	PHT CP	GP1FAV51RK0F	1	24120129	
U1002 or	PHT CP	JSR1165-001recieving	(1)	24120143	
U1003	PHT CP	GP1FAV51RK0F	1	24120129	
U1003 or	PHT CP	JSR1165-001recieving	(1)	24120143	

Q101	IC	CS4344-CZZR	1	22242406R2	<DC>
Q1011	IC	TC74VHC157FT	1	22274157ER2TO	
Q102	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO	<DC>
Q103	IC	BU9450KV-E2	1	22242505R2	<DC>
Q103 or	IC	F2628E-01	(1)	22242436R2	<DC>
Q104	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO	<DC>
Q105	IC	NJM4580M-D	1	22241448R2	<DC>
Q106	IC	NJM4580M-D	1	22241448R2	<DC>
Q107	IC	TC74VHCT08AFT EKJ	1	22274008G1R2TO	<DC>
Q107 or	IC	TC74VHCT08AFT	(1)	22274008GR2TO	<DC>
Q1101	IC	CS42528-CQZR-D	1	22242275R2	
Q1201	IC	CS4398-CZZ(R)	1	22242227R2	
Q1301	IC	NJM4580M-D	1	22241448R2	
Q1401	IC	NJM4580M-D	1	22241448R2	
Q1402	IC	NJM4580M-D	1	22241448R2	
Q1403	IC	NJM4580M-D	1	22241448R2	
Q1404	IC	NJM4580M-D	1	22241448R2	
Q1405	IC	NJM4580M-D	1	22241448R2	
Q1601	IC	NJU7312AM	1	22242210R2	
Q1611	IC	NJM4580M-D	1	22241448R2	
Q1612	IC	NJM4580M-D	1	22241448R2	
Q1701	IC	NJM4580M-D	1	22241448R2	
Q1912	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO	
Q1921	IC	S-812C56AUA-C3K	1	22242207R2	
Q1931	IC	S-812C33AUA-C2N	1	22242222R2	
Q1941	IC	NJM2860F3-05	1	22242105R2	
Q1942	IC	NJM2860F3-33	1	22242087R2	
Q2001	IC	M3087BFBGP	1	222W0059R3	
Q2019	TR	RN1404	1	2214490R2	
Q2401	TR	RN1404	1	2214490R2	
Q2402	TR	RN2402	1	2214530R2	
Q2403	TR	RN1404	1	2214490R2	
Q2404	TR	RN2402	1	2214530R2	
Q2405	TR	RN1404	1	2214490R2	
Q2406	TR	RN2402	1	2214530R2	
Q2411	TR	DTC114YKA	1	2216470R2	
Q2412	TR	DTA114YKA	1	2216480R2	
Q2413	TR	DTC114YKA	1	2216470R2	
Q2414	TR	DTA114YKA	1	2216480R2	
Q2415	TR	DTC114YKA	1	2216470R2	
Q2501	IC	IS25C64A-2GLI	1	22242385R2	
Q2601	IC	TC74VHC541FT	1	22274541ER2TO	<DC, MP>
Q2601 or	IC	TC74VHC541FT(EKJ)	(1)	22274541E1R2TO	<DC, MP>
Q2602	IC	TC74VHCT08AFT	1	22274008GR2TO	<DC>
Q2602 or	IC	TC74VHCT08AFT EKJ	(1)	22274008G1R2TO	<DC>
Q2603	IC	TC74VHCT08AFT	1	22274008GR2TO	
Q2603 or	IC	TC74VHCT08AFT EKJ	(1)	22274008G1R2TO	
Q2604	IC	TC74VHCT08AFT	1	22274008GR2TO	
Q2604 or	IC	TC74VHCT08AFT EKJ	(1)	22274008G1R2TO	
Q2605	IC	TC74VHCT08AFT	1	22274008GR2TO	
Q2605 or	IC	TC74VHCT08AFT EKJ	(1)	22274008G1R2TO	
Q2701	TR	RN1402	1	2214470R2	
Q4002	IC	AN15881A-VT	1	22242318R3	
Q6601	TR	DTC123JKA	1	2216690R2	
Q6602	TR	DTC123JKA	1	2216690R2	
Q6603	TR	DTC123JKA	1	2216690R2	
Q6604	TR	DTC123JKA	1	2216690R2	
Q9001	TR	2SC2235-Y(TPE6_F)	1	2211654T	
Q9002	TR	RN1405	1	2214500R2	
Q9020	TR	RN1405	1	2214500R2	
Q9021	IC	SI8008TM	1	22242323R2	
Q9023	TR	2SB1068-U-AZ	1	2212855T	
Q9031	IC	7805FA(NJM7805FA)	1	222780054JRC	
Q9031 or	IC	UPC7805AHF-AZ	(1)	222780054NEC	
Q9101	TR	2SB1068-U-AZ	1	2212855T	
Q9102	TR	2SA950-O	1	2211503T	
Q9103	TR	2SC1815-GR	1	2211255T	
Q9104	TR	2SA950-O	1	2211503T	
Q9105	TR	2SC1815-GR	1	2211255T	
Q9221	IC	SI8008TM	1	22242323R2	
Q9231	IC	MPC2905BHF	1	22278005DBNE	
Q9231A	HEAT SINK	RAD-153	1	27160484	
D1701	ZENER D	UDZS6.8B	1	224550680R2	
D1702	ZENER D	UDZS6.8B	1	224550680R2	
D1801	DIODE	RL1N4003	1	22380260T	<SR705>
D1801 or	DIODE	GP104003E	(1)	22380035T	<SR705>
D1802	DIODE	RL1N4003	1	22380260T	<SR705>
D1802 or	DIODE	GP104003E	(1)	22380035T	<SR705>
D1803	DIODE	RL1N4003	1	22380260T	<SR705>
D1803 or	DIODE	GP104003E	(1)	22380035T	<SR705>
D1923	C-DIODE	1SS352	1	223234R2	
D1923 or	C-DIODE	1SS355	(1)	223269R2	
D1924	C-DIODE	1SS352	1	223234R2	
D1924 or	C-DIODE	1SS355	(1)	223269R2	
D2019	C-DIODE	1SS352	1	223234R2	
D2019 or	C-DIODE	1SS355	(1)	223269R2	
D2026	C-DIODE	1SS352	1	223234R2	
D2026 or	C-DIODE	1SS355	(1)	223269R2	
D2027	C-DIODE	1SS352	1	223234R2	

D2027 or	C-DIODE	1SS355	(1)	223269R2	
D6600	C-DIODE	1SS352	1	223234R2	
D6600 or	C-DIODE	1SS355	(1)	223269R2	
D6603	C-DIODE	1SS352	1	223234R2	
D6603 or	C-DIODE	1SS355	(1)	223269R2	
D6605	C-DIODE	1SS352	1	223234R2	
D6605 or	C-DIODE	1SS355	(1)	223269R2	
D6607	C-DIODE	1SS352	1	223234R2	<SR705>
D6607 or	C-DIODE	1SS355	(1)	223269R2	<SR705>
D9002	DIODE	RL1N4003	1	22380260T	
D9002 or	DIODE	GP104003E	(1)	22380035T	
D9005	ZENER D	UDZS36B	1	224553600R2	
D9011	DIODE	D5SBA20	1	22380130	
D9011A	HEAT SINK	RAD-083	1	27160271	
D9012	C-DIODE	1SS352	1	223234R2	
D9012 or	C-DIODE	1SS355	(1)	223269R2	
D9013	C-DIODE	1SS352	1	223234R2	
D9013 or	C-DIODE	1SS355	(1)	223269R2	
D9014	C-DIODE	1SS352	1	223234R2	
D9014 or	C-DIODE	1SS355	(1)	223269R2	
D9015	C-DIODE	1SS352	1	223234R2	
D9015 or	C-DIODE	1SS355	(1)	223269R2	
D9017	C-DIODE	1SS352	1	223234R2	
D9017 or	C-DIODE	1SS355	(1)	223269R2	
D9019	C-DIODE	1SS352	1	223234R2	
D9019 or	C-DIODE	1SS355	(1)	223269R2	
D9020	DIODE	RL1N4003	1	22380260T	
D9020 or	DIODE	GP104003E	(1)	22380035T	
D9021	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
D9024	ZENER D	UDZS5.6B	1	224550560R2	
D9101	C-DIODE	1SS352	1	223234R2	
D9102	C-DIODE	1SS352	1	223234R2	
D9219	C-DIODE	1SS352	1	223234R2	
D9219 or	C-DIODE	1SS355	(1)	223269R2	
D9221	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
L1001	CHOKE COIL	LBC2518T470M	1	231364M470R2	
L101	EMIFIL	BK1608LM182-T	1	230958R1	<DC>
L1011	CHOKE COIL	LBC2518T470M	1	231364M470R2	
L102	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	<DC>
L103	CHOKE COIL	BLM21PG221SN1	1	230949R2	<DC>
L104	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	<DC>
L105	CHOKE COIL	BLM21PG221SN1	1	230949R2	<DC>
L106	CHOKE COIL	BLM21PG221SN1	1	230949R2	<DC>
L1101	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
L1102	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
L1103	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
L1104	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
L1111	EMIFIL	BK1608LM182-T	1	230958R1	
L1112	EMIFIL	BK1608LM182-T	1	230958R1	
L1113	EMIFIL	BK1608LM182-T	1	230958R1	
L1201	CHOKE COIL	LBC2518T470M	1	231364M470R2	
L1202	CHOKE COIL	LBC2518T470M	1	231364M470R2	
L1211	EMIFIL	BK1608LM182-T	1	230958R1	
L4001	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
L4015	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
L6600	S COIL	S-1.3C	1	231176S	<SR705>
L6601	S COIL	S-1.3C	1	231176S	<SR705>
L6602	S COIL	S-1.3C	1	231176S	<SR705>
L6603	S COIL	S-1.3C	1	231176S	<SR705>
L6604	S COIL	S-1.3C	1	231176S	<SR705>
L6605	S COIL	S-1.3C	1	231176S	<SR705>
L6606	S COIL	S-1.3C	1	231176S	<SR705>
L9001	CHOKE COIL	NCH-2541	1	231363K470	
L9201	CHOKE COIL	NCH-2541	1	231363K470	
X101	CRYSTAL	DSX840GA 45.1584MHz	1	3010420R2	<DC>
X101 or	CRYSTAL	FCX-02N 45.1584MHz	(1)	3010421R2	<DC>
X2001	CERA LOCK	CSTCE8M00G55-R0	1	3010416R2	
C1001	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1002	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1003	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1004	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C101	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	<DC>
C1011	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1012	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C102	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C104	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C105	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C106	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C107	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C108	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C109	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C110	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C1101	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C1102	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C1103	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1104	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1105	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C1106	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C1107	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	

C1108	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1109	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C111	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C1110	UTSJ C	CE04W25V-47M(UTSJ)	1	398054707T	
C1111	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1112	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1113	C-CERA C	CK725B1H-222K1	1	332102225R1	
C1114	C-CERA C	CK725B1H-473K1	1	332104735R1	
C1115	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1116	C-CERA C	CC725CH1H-330J1	1	342103304R1	
C1117	C-CERA C	CC725CH1H-330J1	1	342103304R1	
C1118	C-CERA C	CC725CH1H-330J1	1	342103304R1	
C112	C-CERA C	CC725CH1H-080D1	1	342100802R1	<DC>
C1120	C-CERA C	CC725CH1H-330J1	1	342103304R1	
C1121	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1122	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C113	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C114	C-CERA C	CC725CH1H-040C1	1	342100401R1	<DC>
C115	C-CERA C	CK725B1H-102K1	1	332101025R1	<DC>
C116	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C117	ELECT C	CE04W6.3V-100M(S)	1	353721019T	<DC>
C118	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	<DC>
C119	ELECT C	CE04W6.3V-100M(S)	1	353721019T	<DC>
C120	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C1201	UTSP C	CE04W10V-220M(UTSP)	1	397532217T	
C1202	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1203	UTSP C	CE04W10V-220M(UTSP)	1	397532217T	
C1204	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1205	UTSP C	CE04W10V-220M(UTSP)	1	397532217T	
C1206	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1207	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
C1208	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C121	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C122	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C123	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C124	ELECT C	CE04W6.3V-100M(S)	1	353721019T	<DC>
C125	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C126	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C127	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C128	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C129	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C130	C-CERA C	CC725CH1H-821J1	1	342108214R1	<DC>
C1301	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1302	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1303	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1304	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1305	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1306	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1307	TF C	ECQ-B50V-222J	1	374722224T	
C1308	TF C	ECQ-B50V-222J	1	374722224T	
C131	C-CERA C	CC725CH1H-821J1	1	342108214R1	<DC>
C1316	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C132	C-CERA C	CC725CH1H-821J1	1	342108214R1	<DC>
C133	C-CERA C	CC725CH1H-821J1	1	342108214R1	<DC>
C135	ELECT C	CE04W16V-100M	1	355741019T	<DC>
C136	ELECT C	CE04W16V-100M	1	355741019T	<DC>
C137	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C138	ELECT C	CE04W16V-10M(S)	1	353741009T	<DC>
C139	C-CERA C	CK725F1E-104Z1	1	332161040R1	<DC>
C140	CERA C	CK725F1H-223Z1	1	332152230R1	<DC>
C1401	TF C	ECQ-B50V-331J	1	374723314T	
C1402	TF C	ECQ-B50V-331J	1	374723314T	
C1403	TF C	ECQ-B50V-331J	1	374723314T	
C1404	TF C	ECQ-B50V-331J	1	374723314T	
C1405	TF C	ECQ-B50V-331J	1	374723314T	
C1406	TF C	ECQ-B50V-331J	1	374723314T	
C1407	TF C	ECQ-V50V-273J	1	374722734T	
C1408	TF C	ECQ-V50V-273J	1	374722734T	
C1409	TF C	ECQ-B50V-331J	1	374723314T	
C1410	TF C	ECQ-B50V-331J	1	374723314T	
C1411	TF C	ECQ-V50V-273J	1	374722734T	
C1412	TF C	ECQ-V50V-273J	1	374722734T	
C1413	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1414	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1415	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1416	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1417	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1418	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1419	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1420	C-CERA C	CC725CH1H-331J1	1	342103314R1	
C1421	TF C	ECQ-B50V-222J	1	374722224T	
C1422	TF C	ECQ-B50V-222J	1	374722224T	
C1423	TF C	ECQ-B50V-222J	1	374722224T	
C1424	TF C	ECQ-V50V-333J	1	374723334T	
C1425	TF C	ECQ-B50V-222J	1	374722224T	
C1426	TF C	ECQ-V50V-333J	1	374723334T	
C1427	C-CERA C	CK725B1H-222K1	1	332102225R1	
C1428	C-CERA C	CK725B1H-222K1	1	332102225R1	
C1429	C-CERA C	CK725B1H-222K1	1	332102225R1	

C1430	C-CERA C	CK725B1H-222K1	1	332102225R1	
C1521	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1522	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1523	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1524	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1525	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1591	VR C	CE04W16V-220M(VR)	1	394642217T	
C1592	VR C	CE04W16V-220M(VR)	1	394642217T	
C1601	UTSP C	CE04W50V-100M(UTSP)	1	397581017T	
C1611	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1612	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1613	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1614	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1615	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1616	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1701	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1702	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1703	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C1704	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C1705	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1706	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
C1707	UTSP C	CE04W10V-220M(UTSP)	1	397532217T	
C1708	UTSP C	CE04W10V-220M(UTSP)	1	397532217T	
C1709	TF C	ECQ-B50V-123J	1	374721234T	
C1710	TF C	ECQ-B50V-123J	1	374721234T	
C1711	TF C	ECQ-B50V-392J	1	374723924T	
C1712	TF C	ECQ-B50V-392J	1	374723924T	
C1713	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1714	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C1715	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1716	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C1717	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C1801	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	<SR705>
C1911	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1912	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1921	VR C	CE04W16V-470M(VR)	1	394644717T	
C1922	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1923	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1924	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C1931	VR C	CE04W16V-470M(VR)	1	394644717T	
C1932	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1933	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C1941	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1942	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1943	C-CERA C	CK725B1A-105K1	1	332131055R1	
C1944	C-CERA C	CK725B1A-105K1	1	332131055R1	
C1945	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C1946	C-CERA C	CK725B1A-105K1	1	332131055R1	
C1947	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2008	C-CERA C	CK725B1H-102K1	1	332101025R1	
C2012	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2019	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2023	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2027	C-CERA C	CK725B1H-102K1	1	332101025R1	
C2036	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2037	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2039	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2059	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2074	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2091	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2101	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2107	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2109	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2132	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2133	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2134	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2135	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2136	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2139	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2141	C-CERA C	CC725CH1H-101J1	1	342101014R1	
C2142	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2143	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2219	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
C2401	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2402	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2403	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2404	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2405	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2406	C-CERA C	CK725B1A-105K1	1	332131055R1	
C2501	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
C2502	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2601	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2602	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2603	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2604	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C2605	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C4001	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C4002	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
C4003	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	

C4004	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4005	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4006	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4007	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4008	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4009	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4010	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4011	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4012	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4013	C-CERA C	CK725B1H-102K1	1	332101025R1
C4014	C-CERA C	CK725B1H-102K1	1	332101025R1
C4015	C-CERA C	CK725B1H-102K1	1	332101025R1
C4016	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4017	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4018	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4019	C-CERA C	CK725B1H-102K1	1	332101025R1
C4020	C-CERA C	CK725B1H-102K1	1	332101025R1
C4021	C-CERA C	CK725B1H-102K1	1	332101025R1
C4022	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4023	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4024	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4025	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4026	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4027	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4103	VR C	CE04W6.3V-220M(VR)	1	394622217T
C4104	VR C	CE04W6.3V-220M(VR)	1	394622217T
C4105	UTSP C	CE04W50V-22M(UTSP)	1	397582207T
C4106	VR C	CE04W6.3V-1000M(VR)	1	394621027T
C4107	UTSP C	CE04W50V-22M(UTSP)	1	397582207T
C4108	VR C	CE04W6.3V-1000M(VR)	1	394621027T
C4110	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4111	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4112	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4114	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4116	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4118	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4119	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4121	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4122	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4123	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C4124	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C4125	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4127	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4129	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4131	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4132	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4133	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4134	VR C	CE04W6.3V-470M(VR)	1	394624717T
C4135	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4136	UTSP C	CE04W50V-22M(UTSP)	1	397582207T
C4137	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4138	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4139	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4140	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4141	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C4142	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4143	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4144	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4150	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4151	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4152	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C4153	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4154	C-CERA C	CC725CH1H-221J1	1	342102214R1
C4155	C-CERA C	CC725CH1H-221J1	1	342102214R1
C4158	C-CERA C	CC725CH1H-470J1	1	342104704R1
C4159	C-CERA C	CC725CH1H-470J1	1	342104704R1
C4160	C-CERA C	CC725CH1H-470J1	1	342104704R1
C4161	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4162	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4163	C-CERA C	CC725CH1H-181J1	1	342101814R1
C4166	C-CERA C	CC725CH1H-102J1	1	342101024R1
C4168	C-CERA C	CC725CH1H-220J1	1	342102204R1
C4242	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4243	C-CERA C	CK725F1H-104Z1	1	332151040R1
C4244	C-CERA C	CK725F1H-104Z1	1	332151040R1
C6600	TF C	ECQ-B50V-223J	1	374722234T
C6602	TF C	ECQ-B50V-223J	1	374722234T
C6603	TF C	ECQ-B50V-223J	1	374722234T
C6605	TF C	ECQ-B50V-223J	1	374722234T
C6607	TF C	ECQ-B50V-223J	1	374722234T
C6640	TF C	ECQ-B50V-103J	1	374721034T
C6641	TF C	ECQ-B50V-103J	1	374721034T
C6642	TF C	ECQ-B50V-103J	1	374721034T
C6643	TF C	ECQ-B50V-103J	1	374721034T
C6644	TF C	ECQ-B50V-103J	1	374721034T
C6645	TF C	ECQ-B50V-103J	1	374721034T
C6646	TF C	ECQ-B50V-103J	1	374721034T
C6650	TF C	ECQ-B50V-102J	1	374721024T
C6651	TF C	ECQ-B50V-102J	1	374721024T

C6652	TF C	ECQ-B50V-102J	1	374721024T	
C6653	TF C	ECQ-B50V-102J	1	374721024T	
C6654	TF C	ECQ-B50V-102J	1	374721024T	
C6655	TF C	ECQ-B50V-102J	1	374721024T	
C6656	TF C	ECQ-B50V-102J	1	374721024T	
C9001	VR C	CE04W63V-470M(VR)	1	394674717S	
C9005	UTSP C	CE04W50V-47M(UTSP)	1	397584707T	
C9006	C-CERA C	CK725F1H-223Z1	1	332152230R1	
C9011	VR C	CE04W16V-1000M(VR)	1	394641037S	
C9012	TF C	ECQ-V50V-334J	1	374723344T	
C9013	UTSP C	CE04W50V-3.3M(UTSP)	1	397580337T	
C9021	VR C	CE04W16V-470M(VR)	1	394644717T	
C9023	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C9024	C-CERA C	CK725F1H-223Z1	1	332152230R1	
C9025	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C9033	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C9035	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C9036	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C9101	VR C	CE04W16V-100M(VR)	1	394641017T	
C9102	VR C	CE04W16V-100M(VR)	1	394641017T	
C9221	VR C	CE04W16V-470M(VR)	1	394644717T	
C9223	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
C9235	C-CERA C	CK725F1H-104Z1	1	332151040R1	
R1001	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1002	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1003	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R101	C-CARBON R	RN72K1J-220JE	1	435032204R1	<DC>
R102	C-CARBON R	RN72K1J-331JE	1	435033314R1	<DC>
R103	C-CARBON R	RN72K1J-331JE	1	435033314R1	<DC>
R104	C-CARBON R	RN72K1J-331JE	1	435033314R1	<DC>
R105	C-CARBON R	RN72K1J-101JE	1	435031014R1	<DC>
R106	C-CARBON R	RN72K1J-220JE	1	435032204R1	<DC>
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R110	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
R1101	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1102	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1103	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1104	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1105	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1106	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1107	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1108	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1109	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R111	C-CARBON R	RN72K1J-105JE	1	435031054R1	<DC>
R1111	C-CARBON R	RN72K1J-272JE	1	435032724R1	
R1116	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R1117	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R1118	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R1119	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R112	C-CARBON R	RN72K1J-681JE	1	435036814R1	<DC>
R1120	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R1121	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1122	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1123	C-CARBON R	RN72K1J-151JE	1	435031514R1	
R1124	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1125	C-CARBON R	RN72K1J-151JE	1	435031514R1	
R1126	C-CARBON R	RN72K1J-151JE	1	435031514R1	
R1127	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1128	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1129	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R113	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
R114	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
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R116	C-CARBON R	RN72K1J-220JE	1	435032204R1	<DC>
R117	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
R118	C-CARBON R	RN72K1J-102JE	1	435031024R1	<DC>
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R1201	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R1203	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1204	C-CARBON R	RN72K1J-470JE	1	435034704R1	
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R1206	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R1207	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1208	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1209	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R121	C-CARBON R	RN72K1J-220JE	1	435032204R1	<DC>
R1210	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R1211	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R1212	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R122	C-CARBON R	RN72K1J-101JE	1	435031014R1	<DC>
R123	C-CARBON R	RN72K1J-220JE	1	435032204R1	<DC>
R124	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
R125	C-CARBON R	RN72K1J-104JE	1	435031044R1	<DC>
R126	C-CARBON R	RN72K1J-222JE	1	435032224R1	<DC>
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R1468	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1469	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1470	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1471	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1472	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1473	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1474	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1475	C-CARBON R	RN72K1J-181JE	1	435031814R1	
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R1479	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1480	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1491	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R1492	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R1493	C-CARBON R	RN72K1J-000JE	1	435030004R1	
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R1500	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R1591	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R1592	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R1601	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R1602	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R1622	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R1623	C-CARBON R	RN72K1J-123JE	1	435031234R1	
R1624	C-CARBON R	RN72K1J-123JE	1	435031234R1	
R1625	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R1626	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R1627	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1628	C-CARBON R	RN72K1J-181JE	1	435031814R1	
R1629	C-CARBON R	RN72K1J-152JE	1	435031524R1	
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R1631	C-CARBON R	RN72K1J-123JE	1	435031234R1	
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R1633	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R1634	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R1701	METAL O R	RS1/2WBJ-68	1	443526804T	
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R1703	C-CARBON R	RN72K1J-331JE	1	435033314R1	
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R1705	C-CARBON R	RN72K1J-563JE	1	435035634R1	
R1706	C-CARBON R	RN72K1J-563JE	1	435035634R1	
R1707	C-CARBON R	RN72K1J-474JE	1	435034744R1	
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R1709	C-CARBON R	RN72K1J-561JE	1	435035614R1	
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R1711	C-CARBON R	RN72K1J-274JE	1	435032744R1	
R1712	C-CARBON R	RN72K1J-274JE	1	435032744R1	
R1713	C-CARBON R	RN72K1J-223JE	1	435032234R1	
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R1715	C-CARBON R	RN72K1J-122JE	1	435031224R1	
R1716	C-CARBON R	RN72K1J-122JE	1	435031224R1	
R1717	C-CARBON R	RN72K1J-101JE	1	435031014R1	
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R1941	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R1942	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R1943	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2006	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R2007	C-CARBON R	RN72K1J-470JE	1	435034704R1	
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R2011	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R2012	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R2013	C-CARBON R	RN72K1J-221JE	1	435032214R1	

R2126	C-CARBON R	RN72K1J-470JE	1	435034704R1	
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R2128	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R2129	C-CARBON R	RN72K1J-470JE	1	435034704R1	
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R2144	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R2200	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2206	C-CARBON R	RN72K1J-273JE	1	435032734R1	
R2209	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2210	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2233	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2236	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R2237	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R2240	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2248	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2250	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2296	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2307	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2309	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2310	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R2311	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R2312	C-CARBON R	RN72K1J-000JE	1	435030004R1	
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R2320	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2323	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2328	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2337	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2339	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R2341	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R2344	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2401	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R2402	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R2403	C-CARBON R	RN72K1J-222JE	1	435032224R1	
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R2407	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2408	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R2409	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R2411	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R2412	C-CARBON R	RN72K1J-224JE	1	435032244R1	
R2413	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R2414	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R2421	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R2501	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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R2701	C-CARBON R	RN72K1J-273JE	1	435032734R1	
R2702	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R2703	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R2704	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R4001	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4002	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4003	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4004	C-CARBON R	RN72K1J-750JE	1	435037504R1	

R4005	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4006	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4007	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4008	C-CARBON R	RN72K1J-750JE	1	435037504R1	
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R4010	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4011	C-CARBON R	RN72K1J-750JE	1	435037504R1	
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R4016	C-CARBON R	RN72K1J-750JE	1	435037504R1	
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R4030	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4136	C-CARBON R	RN72K1J-330JE	1	435033304R1	
R4145	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4150	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4151	C-CARBON R	RN72K1J-000JE	1	435030004R1	
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R4158	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4201	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4202	C-CARBON R	RN72K1J-750JE	1	435037504R1	
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R4212	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4213	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4214	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4215	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4221	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4225	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4226	C-CARBON R	RN72K2E-022JE	1	435220224R1	
R4227	C-CARBON R	RN72K2E-022JE	1	435220224R1	
R4228	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4229	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4230	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R6600	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
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R6602	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6603	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6604	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6605	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6606	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6610	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6611	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6612	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6613	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6614	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6615	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6616	C-CARBON R	RN72K2E-220JE	1	435222204R1	<DT, MP, MA, MO, MK, MQ, MT, SA705>
R6690	METAL R	RNU1/2WCJ-3.9	1	453530394T	
R6691	METAL O R	RS1/2WBJ-390	1	443523914T	
R6992	METAL O R	RS1/2WBJ-390	1	443523914T	
R9003	C-CARBON R	RN72K1J-392JE	1	435033924R1	
R9004	C-CARBON R	RN72K1J-333JE	1	435033334R1	
R9005	METAL R	RNU1/4WJ-22	1	4500183T	
R9006	C-CARBON R	RN72K1J-392JE	1	435033924R1	
R9008	C-CARBON R	RN72K1J-392JE	1	435033924R1	
R9010	METAL O R	RS1/2WBJ-22	1	443522204T	
R9011	METAL R	RNU1/2WCJ-4.7	1	453530474T	
R9012	C-CARBON R	RN72K1J-010JE	1	435030104R1	
R9013	C-CARBON R	RN72K1J-010JE	1	435030104R1	
R9014	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R9017	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R9020	C-CARBON R	RN72K1J-682JE	1	435036824R1	
R9021	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R9022	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R9024	C-CARBON R	RN72K1J-152JE	1	435031524R1	
R9028	METAL R	RNU1/2WCJ-0.47	1	453534794T	
R9029	METAL R	RNU1/2WCJ-0.22	1	453532294T	
R9030	METAL R	RNU1/2WCJ-0.22	1	453532294T	
R9036	METAL R	RNU1/2WCJ-0.47	1	453534794T	<DC>

R9040	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R9041	C-CARBON R	RN72K1J-392JE	1	435033924R1	
R9042	C-CARBON R	RN72K1J-562JE	1	435035624R1	
R9043	C-CARBON R	RN72K1J-823JE	1	435038234R1	
R9101	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R9102	C-CARBON R	RN72K1J-272JE	1	435032724R1	
R9103	C-CARBON R	RN72K1J-471JE	1	435034714R1	
R9104	METAL R	RNU1/2WCJ-3.3	1	453530334T	
R9105	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R9106	C-CARBON R	RN72K1J-223JE	1	435032234R1	
R9107	C-CARBON R	RN72K1J-182JE	1	435031824R1	
R9108	C-CARBON R	RN72K1J-471JE	1	435034714R1	
R9109	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R9110	C-CARBON R	RN72K1J-272JE	1	435032724R1	
R9111	C-CARBON R	RN72K1J-182JE	1	435031824R1	
R9112	C-CARBON R	RN72K1J-562JE	1	435035624R1	
R9228	METAL R	RNU1/2WCJ-0.47	1	453534794T	
RL6600	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6602	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6603	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6605	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6607	RELAY	NRL-2P5A-DC24-158	1	25065618	
E101	TRM(SCREW)	NEJITANSI M3	1	25065425	<DC>
E102	TRM(SCREW)	NEJITANSI M3	1	25065425	<DC>
E122A	RETAINER	(XM)	1	27142048	<DC>
E4001	TRM(SCREW)	NEJITANSI M3	1	25065425	
J001	PVC	ULPVC600V1015#18 L=120mm	1	72150120303	
J002	PVC	ULPVC600V1015#18 L=70mm	1	72150070303	
J004	PVC	#18 1015 BLACKL=100mm	1	72150100303	
JL102A	WIRE HOL	NSCT-10P881	1	25051094	<DC>
JL102B	WIRE TRAP	NPLG-10P593	1	25055631	<DC>
JL5502A	WIRE TRAP	NPLG-7P590	1	25055628	<DC>
JL6018B	WIRE TRAP	NPLG-4P587	1	25055625	
JL6402B	WIRE TRAP	NPLG-3P586	1	25055624	
JL6600B	SOCKET	NSCT-7P99	1	25050271	
JL6603B	SOCKET	NSCT-9P101	1	25050273	
JL6604B	SOCKET	NSCT-4P96	1	25050268	
JL6605B	SOCKET	NSCT-5P97	1	25050269	
JL801A	WIRE HOL	NSCT-8P879	1	25051092	
JL901B	WIRE TRAP	NPLG-5P588	1	25055626	
JL9101B	SOCKET	NSCT-6P98	1	25050270	
P101A	SOCKET	NSCT-13P2106	1	25052209	<SR705>
P121	SOCKET	YKF51-5397N	1	25053201	<DC>
P122	SOCKET	CAM-C16	1	25053104R2	<DC>
P1701	PIN JACK	NPJ-2PDR446	1	25045641	
P2004A	PLUG	IMSA-9163B-10G	1	25056587A	
P2004B	SOCKET	IMSA-9163S-10A	1	25053107	
P2005A	PLUG	IMSA-9163B-16G	1	25056588A	
P2005B	SOCKET	IMSA-9163S-16A	1	25053108	
P2006A	PLUG	IMSA-9163B-04G	1	25056586A	
P2006B	SOCKET	IMSA-9163S-04A	1	25053106	
P2007A	PLUG	IMSA-9163B-10G	1	25056587A	
P2007B	SOCKET	IMSA-9163S-10A	1	25053107	
P301	SOCKET	NSCT-8P2188	1	25052291	
P302	SOCKET	NSCT-14P2194	1	25052297	
P303	SOCKET	NSCT-17P2197	1	25052300	
P304	SOCKET	NSCT-3P2183	1	25052286	
P3801A	PLUG	NPLG-20P668	1	25055712	
P3802A	PLUG	NPLG-20P668	1	25055712	
P3803A	PLUG	NPLG-5P657	1	25055701	
P4001	PIN JACK	NPJ-6PDGLRGLR646	1	25045871	
P4002	PIN JACK	NPJ-6PDGLRGLR646	1	25045871	
P4003	PIN JACK	NPJ-5PDBY622	1	25045843	
P4004	PIN JACK	NPJ-10PDBY621	1	25045842	
P4005	PIN JACK	NPJ-10PDBY621	1	25045842	
P4006	PIN JACK	NPJ-5PDBY622	1	25045843	
P4008B	SOCKET	NSCT-23P2116	1	25052219	
P6019B	PLUG	NPLG-3P131	1	25055147	
P6601	TRM	NTM-6PDMCWRG410	1	25060482	
P6602	TRM	NTM-8PDMCNTLE411	1	25060483	
P701A	SOCKET	52492-3620	1	25053110	
P7303A	PLUG	NPLG-2P130	1	25055146	
P751A	SOCKET	NSCT-9P2427	1	25052530	
P802A	SOCKET AS	NSAS-26P1699	1	2002A392620UL	
P9102	PLUG	NPLG-2P83	1	25055099	
P9103	PLUG	NPLG-2P83	1	25055099	

U22 DRIVER AMPLIFIER PC BOARD (NAAF-8917-3A)

U23 SPEAKER TERMINAL PC BOARD (NAETC-8918-3A)

CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
Q5000	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5001	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5002	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5003	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5004	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5005	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5006	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5010	TR	2SC2240-BL(TPE2_F)	1	2211406T	

Q5011	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5012	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5013	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5014	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5015	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5016	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5030	TR	2SA1360-Y	1	2202094
Q5031	TR	2SA1360-Y	1	2202094
Q5032	TR	2SA1360-Y	1	2202094
Q5033	TR	2SA949-Y(TPE6_F)	1	2211354T
Q5034	TR	2SA949-Y(TPE6_F)	1	2211354T
Q5035	TR	2SA949-Y(TPE6_F)	1	2211354T
Q5036	TR	2SA949-Y(TPE6_F)	1	2211354T
Q5040	TR	2SC3423-Y	1	2202104
Q5041	TR	2SC3423-Y	1	2202104
Q5042	TR	2SC3423-Y	1	2202104
Q5043	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q5044	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q5045	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q5046	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q5050	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5050 or	TR	2SC2240-GR	(1)	2211405T
Q5051	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5051 or	TR	2SC2240-GR	(1)	2211405T
Q5052	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5052 or	TR	2SC2240-GR	(1)	2211405T
Q5053	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5053 or	TR	2SC2240-GR	(1)	2211405T
Q5054	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5054 or	TR	2SC2240-GR	(1)	2211405T
Q5055	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5055 or	TR	2SC2240-GR	(1)	2211405T
Q5056	TR	2SC2240-BL(TPE2_F)	1	2211406T
Q5056 or	TR	2SC2240-GR	(1)	2211405T
D5000	ZENER D	DZ-5.6BSC	1	224850563T
D5000 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5001	ZENER D	DZ-5.6BSC	1	224850563T
D5001 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5002	ZENER D	DZ-5.6BSC	1	224850563T
D5002 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5003	ZENER D	DZ-5.6BSC	1	224850563T
D5003 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5004	ZENER D	DZ-5.6BSC	1	224850563T
D5004 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5005	ZENER D	DZ-5.6BSC	1	224850563T
D5005 or	ZENER D	MTZJ5.6B	(1)	224470562T
D5006	ZENER D	DZ-5.6BSC	1	224850563T
D5006 or	ZENER D	MTZJ5.6B	(1)	224470562T
C5000	TF C	ECQ-B50V-331K	1	374723315T
C5001	TF C	ECQ-B50V-331K	1	374723315T
C5002	TF C	ECQ-B50V-331K	1	374723315T
C5003	TF C	ECQ-B50V-331K	1	374723315T
C5004	TF C	ECQ-B50V-331K	1	374723315T
C5005	TF C	ECQ-B50V-331K	1	374723315T
C5006	TF C	ECQ-B50V-331K	1	374723315T
C5010	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5011	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5012	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5013	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5014	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5015	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5016	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5020	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5021	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5022	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5023	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5024	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5025	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5026	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5040	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5041	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5042	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5043	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5044	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5045	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5046	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5050	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5051	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5052	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5053	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5054	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5055	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5056	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
C5080	CERA C	CC45SL50V-040D	1	345020402T
C5081	CERA C	CC45SL50V-040D	1	345020402T
C5082	CERA C	CC45SL50V-040D	1	345020402T
C5083	CERA C	CC45SL50V-040D	1	345020402T
C5084	CERA C	CC45SL50V-040D	1	345020402T
C5085	CERA C	CC45SL50V-040D	1	345020402T

C5086	CERA C	CC45SL50V-040D	1	345020402T
C5090	TF C	ECQ-B50V-101K	1	374721015T
C5091	TF C	ECQ-B50V-101K	1	374721015T
C5092	TF C	ECQ-B50V-101K	1	374721015T
C5093	TF C	ECQ-B50V-101K	1	374721015T
C5094	TF C	ECQ-B50V-101K	1	374721015T
C5095	TF C	ECQ-B50V-101K	1	374721015T
C5096	TF C	ECQ-B50V-101K	1	374721015T
C5100	VR C	CE04W100V-22M(VR)	1	394692207T
C5101	VR C	CE04W100V-22M(VR)	1	394692207T
C5102	VR C	CE04W100V-22M(VR)	1	394692207T
C5103	VR C	CE04W100V-22M(VR)	1	394692207T
C5104	VR C	CE04W100V-22M(VR)	1	394692207T
C5105	VR C	CE04W100V-22M(VR)	1	394692207T
C5106	VR C	CE04W100V-22M(VR)	1	394692207T
C5110	VR C	CE04W100V-22M(VR)	1	394692207T
C5111	VR C	CE04W100V-22M(VR)	1	394692207T
C5112	VR C	CE04W100V-22M(VR)	1	394692207T
C5113	VR C	CE04W100V-22M(VR)	1	394692207T
C5114	VR C	CE04W100V-22M(VR)	1	394692207T
C5115	VR C	CE04W100V-22M(VR)	1	394692207T
C5116	VR C	CE04W100V-22M(VR)	1	394692207T
C6647	TF C	ECQ-B50V-103J	1	374721034T
C6648	TF C	ECQ-B50V-103J	1	374721034T
C6657	TF C	ECQ-B50V-102J	1	374721024T
C6658	TF C	ECQ-B50V-102J	1	374721024T
R5000	CARBON R	R16J-3.3K	1	417343324T
R5001	CARBON R	R16J-3.3K	1	417343324T
R5002	CARBON R	R16J-3.3K	1	417343324T
R5003	CARBON R	R16J-3.3K	1	417343324T
R5004	CARBON R	R16J-3.3K	1	417343324T
R5005	CARBON R	R16J-3.3K	1	417343324T
R5006	CARBON R	R16J-3.3K	1	417343324T
R5010	CARBON R	R16J-56K	1	417345634T
R5011	CARBON R	R16J-56K	1	417345634T
R5012	CARBON R	R16J-56K	1	417345634T
R5013	CARBON R	R16J-56K	1	417345634T
R5014	CARBON R	R16J-56K	1	417345634T
R5015	CARBON R	R16J-56K	1	417345634T
R5016	CARBON R	R16J-56K	1	417345634T
R5020	CARBON R	R16J-330	1	417343314T
R5021	CARBON R	R16J-330	1	417343314T
R5022	CARBON R	R16J-330	1	417343314T
R5023	CARBON R	R16J-330	1	417343314T
R5024	CARBON R	R16J-330	1	417343314T
R5025	CARBON R	R16J-330	1	417343314T
R5026	CARBON R	R16J-330	1	417343314T
R5030	CARBON R	R16J-120K	1	417341244T
R5031	CARBON R	R16J-120K	1	417341244T
R5032	CARBON R	R16J-120K	1	417341244T
R5033	CARBON R	R16J-120K	1	417341244T
R5034	CARBON R	R16J-120K	1	417341244T
R5035	CARBON R	R16J-120K	1	417341244T
R5036	CARBON R	R16J-120K	1	417341244T
R5040	CARBON R	R16J-2.2K	1	417342224T
R5041	CARBON R	R16J-2.2K	1	417342224T
R5042	CARBON R	R16J-2.2K	1	417342224T
R5043	CARBON R	R16J-2.2K	1	417342224T
R5044	CARBON R	R16J-2.2K	1	417342224T
R5045	CARBON R	R16J-2.2K	1	417342224T
R5046	CARBON R	R16J-2.2K	1	417342224T
R5050	CARBON R	R16J-4.7K	1	417344724T
R5051	CARBON R	R16J-4.7K	1	417344724T
R5052	CARBON R	R16J-4.7K	1	417344724T
R5053	CARBON R	R16J-4.7K	1	417344724T
R5054	CARBON R	R16J-4.7K	1	417344724T
R5055	CARBON R	R16J-4.7K	1	417344724T
R5056	CARBON R	R16J-4.7K	1	417344724T
R5060	CARBON R	R16J-1.2K	1	417341224T
R5061	CARBON R	R16J-1.2K	1	417341224T
R5062	CARBON R	R16J-1.2K	1	417341224T
R5063	CARBON R	R16J-1.2K	1	417341224T
R5064	CARBON R	R16J-1.2K	1	417341224T
R5065	CARBON R	R16J-1.2K	1	417341224T
R5066	CARBON R	R16J-1.2K	1	417341224T
R5080	CARBON R	R16J-470	1	417344714T
R5081	CARBON R	R16J-470	1	417344714T
R5082	CARBON R	R16J-470	1	417344714T
R5083	CARBON R	R16J-470	1	417344714T
R5084	CARBON R	R16J-470	1	417344714T
R5085	CARBON R	R16J-470	1	417344714T
R5086	CARBON R	R16J-470	1	417344714T
R5090	CARBON R	R16J-100K	1	417341044T
R5091	CARBON R	R16J-100K	1	417341044T
R5092	CARBON R	R16J-100K	1	417341044T
R5093	CARBON R	R16J-100K	1	417341044T
R5094	CARBON R	R16J-100K	1	417341044T
R5095	CARBON R	R16J-100K	1	417341044T
R5096	CARBON R	R16J-100K	1	417341044T

R5100	CARBON R	R16J-100K	1	417341044T	
R5101	CARBON R	R16J-100K	1	417341044T	
R5102	CARBON R	R16J-100K	1	417341044T	
R5103	CARBON R	R16J-100K	1	417341044T	
R5104	CARBON R	R16J-100K	1	417341044T	
R5105	CARBON R	R16J-100K	1	417341044T	
R5106	CARBON R	R16J-100K	1	417341044T	
R5110	CARBON R	R16J-1K	1	417341024T	
R5111	CARBON R	R16J-1K	1	417341024T	
R5112	CARBON R	R16J-1K	1	417341024T	
R5113	CARBON R	R16J-1K	1	417341024T	
R5114	CARBON R	R16J-1K	1	417341024T	
R5115	CARBON R	R16J-1K	1	417341024T	
R5116	CARBON R	R16J-1K	1	417341024T	
R5130	CARBON R	R16J-18K	1	417341834T	
R5131	CARBON R	R16J-18K	1	417341834T	
R5132	CARBON R	R16J-18K	1	417341834T	
R5133	CARBON R	R16J-22K	1	417342234T	
R5134	CARBON R	R16J-22K	1	417342234T	
R5135	CARBON R	R16J-22K	1	417342234T	
R5136	CARBON R	R16J-22K	1	417342234T	
R5160	NF CARBON R	R25J-100	1	415471014T	
R5161	NF CARBON R	R25J-100	1	415471014T	
R5162	NF CARBON R	R25J-100	1	415471014T	
R5163	NF CARBON R	R25J-120	1	415471214T	
R5164	NF CARBON R	R25J-120	1	415471214T	
R5165	NF CARBON R	R25J-120	1	415471214T	
R5166	NF CARBON R	R25J-120	1	415471214T	
R5170	NF CARBON R	R25J-100	1	415471014T	
R5171	NF CARBON R	R25J-100	1	415471014T	
R5172	NF CARBON R	R25J-100	1	415471014T	
R5173	NF CARBON R	R25J-120	1	415471214T	
R5174	NF CARBON R	R25J-120	1	415471214T	
R5175	NF CARBON R	R25J-120	1	415471214T	
R5176	NF CARBON R	R25J-120	1	415471214T	
R5180	NF CARBON R	R25J-10	1	415471004T	
R5181	NF CARBON R	R25J-10	1	415471004T	
R5182	NF CARBON R	R25J-10	1	415471004T	
R5183	NF CARBON R	R25J-10	1	415471004T	
R5184	NF CARBON R	R25J-10	1	415471004T	
R5185	NF CARBON R	R25J-10	1	415471004T	
R5186	NF CARBON R	R25J-10	1	415471004T	
R5190	NF CARBON R	R25J-10	1	415471004T	
R5191	NF CARBON R	R25J-10	1	415471004T	
R5192	NF CARBON R	R25J-10	1	415471004T	
R5193	NF CARBON R	R25J-10	1	415471004T	
R5194	NF CARBON R	R25J-10	1	415471004T	
R5195	NF CARBON R	R25J-10	1	415471004T	
R5196	NF CARBON R	R25J-10	1	415471004T	
R5200	CARBON R	R16J-18K	1	417341834T	
R5201	CARBON R	R16J-18K	1	417341834T	
R5202	CARBON R	R16J-18K	1	417341834T	
R5203	CARBON R	R16J-22K	1	417342234T	
R5204	CARBON R	R16J-22K	1	417342234T	
R5205	CARBON R	R16J-22K	1	417342234T	
R5206	CARBON R	R16J-22K	1	417342234T	
R5230	CARBON R	R16J-120K	1	417341244T	
R5231	CARBON R	R16J-120K	1	417341244T	
R5232	CARBON R	R16J-120K	1	417341244T	
R5233	CARBON R	R16J-120K	1	417341244T	
R5234	CARBON R	R16J-120K	1	417341244T	
R5235	CARBON R	R16J-120K	1	417341244T	
R5236	CARBON R	R16J-120K	1	417341244T	
JL6604A	WIRE HOL	NSCT-4P895	1	25051108	
P5019	TRM	NTM-1P233(M1969)	1	25060302	
P5504A	PLUG	NPLG-13P141	1	25055157	
P6000A	SOCKET	NSCT-5P2185	1	25052288	
P6001A	SOCKET	NSCT-5P2185	1	25052288	
P6002A	SOCKET	NSCT-5P2185	1	25052288	
P6003A	SOCKET	NSCT-5P2185	1	25052288	
P6004A	SOCKET	NSCT-5P2185	1	25052288	
P6005A	SOCKET	NSCT-5P2185	1	25052288	
P6006A	SOCKET	NSCT-5P2185	1	25052288	
P6011B	RETAINER	(BUS-U)	1	27141859	
P6607	TRM	NTM-4PDMCWR409	1	25060481	

U24 DSP AND HDMI PC BOARD(NAHDM-9265-1A)

CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
Q1021	IC	TC7WU04FU(TE12L_F)	1	22240935R2	
Q3001	IC	SI8008TM	1	22242323R2	
Q3011	IC	SI8008TM	1	22242323R2	
Q3021	IC	SI8008TM	1	22242323R2	
Q3202	IC	BD7820	1	22242300R2	
Q3301	IC	TC74VHC157FT	1	22274157ER2TO	
Q3311	IC	TC74VHC157FT	1	22274157ER2TO	
Q3391	IC	TC74VHCT08AFT	1	22274008GR2TO	
Q3391 or	IC	TC74VHCT08AFT EKJ)	(1)	22274008G1R2TO	
Q3401	IC	D790E001BZDH275	1	---	NRP

Q3401 or	IC	D710E001BZDH275	(1)	---	NRP
Q3451	IC	ES29LV160ET-70TG	1	222W0069R3	
Q3451 or	IC	S29AL016D70TFI010	(1)	222W0063R3	
Q3461	IC	IC42S16100	1	22242123R2	
Q3461 or	IC	M12L16161A-7TG	(1)	22242278R3	
Q3461 or	IC	RMS116T(LF)	(1)	22242340R3	
Q3471	IC	IC42S16100	1	22242123R2	
Q3471 or	IC	M12L16161A-7TG	(1)	22242278R3	
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	ES29LV400ET-70TG	1	222W0065R3	
Q3551 or	IC	ES29LV400	(1)	222W0045R3	
Q3551 or	IC	S29AL004D70TFI010	(1)	222W0061R3	
Q3561	IC	IC42S16100	1	22242123R2	
Q3561 or	IC	M12L16161A-7TG	(1)	22242278R3	
Q3561 or	IC	RMS116T(LF)	(1)	22242340R3	
Q3571	IC	TC7WU04FU(TE12L_F)	1	22240935R2	
Q3601	IC	D707E001BRFP250	1	---	NRP
Q3651	IC	S29AL008D70TFI010	1	222W0062R3	
Q3651 or	IC	ES29LV800ET-70TG	(1)	222W0068R3	
Q3661	IC	IS42S16400D-7TL	1	22241910R2	
Q3661 or	IC	M12L64164A-7TG	(1)	22242441R3	
Q3772	IC	BD7820	1	22242300R2	
Q3773	IC	BD7820	1	22242300R2	
Q3931	IC	74HCU04(TC74HCU04F)	1	222740046R2TO	
Q8001	IC	FLI8125-LF-BC	1	22242389R3	
Q8002	IC	TC74VCX162244FT(EL_F)	1	2227C244DR2TO	
Q8003	IC	TC74VCX162244FT(EL_F)	1	2227C244DR2TO	
Q8004	IC	BA18BC0FP	1	22278018DR2RH	
Q8004 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8004 or	IC	UPC2918T-E1-AZ	(1)	22278018ER2NE	
Q8005	IC	BA33BC0FP	1	22278033DR2RH	
Q8006	IC	SI8008TM	1	22242323R2	
Q8010	IC	S-24CS16A0I-J8V1G	1	22242326R2	
Q8011	IC	SST25VF080B-50-4C-S2AF	1	222W0064R2	
Q8021	TR	RN2402	1	2214530R2	
Q8022	TR	2SA1162-GR	1	2214375R2	
Q8101	IC	AD8196	1	---	NRP
Q8151	IC	BA33BC0FP	1	22278033DR2RH	
Q8204	TR	DTA144EE	1	2216380R2	
Q8206	TR	DTC144EE	1	2216390R2	
Q8207	TR	2SK3019	1	2216520R2	
Q8208	IC	SN74CB3T3306DCT	1	22242454R2	
Q8210	IC	S-24CS02AFT-V-G	1	22242360R2	
Q8210 or	IC	BR24L02FV-W	(1)	22242069R2	
Q8305	IC	S-812C50BUC-C5ET2G	1	22242407R2	
Q8306	IC	TC7SZ08FU(TE85L_F)	1	22242071R2TO	
Q8309	TR ARRAY	UM6K1N	1	226066R2	
Q8309 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8401	IC	SI19134CTU	1	22242394R3	
Q8404	IC	XC6213B182MR	1	22242443R2	
Q8405	IC	SN74CB3Q3305PWR	1	22242258R2	
Q8501	IC	SI19135CTU	1	---	NRP
Q8504	TR	DTA144EE	1	2216380R2	
Q8506	TR	DTC144EE	1	2216390R2	
Q8507	TR	2SK3019	1	2216520R2	
Q8508	IC	SN74CB3T3306DCT	1	22242454R2	
Q8510	IC	S-24CS02AFT-V-G	1	22242360R2	
Q8510 or	IC	BR24L02FV-W	(1)	22242069R2	
Q8592	IC	SI8008TM	1	22242323R2	
Q8593	IC	SI8008TM	1	22242323R2	
Q8595	IC	BA18BC0FP	1	22278018DR2RH	
Q8595 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8595 or	IC	UPC2918T-E1-AZ	(1)	22278018ER2NE	
Q8604	TR	DTA144EE	1	2216380R2	
Q8606	TR	DTC144EE	1	2216390R2	
Q8607	TR	2SK3019	1	2216520R2	
Q8608	IC	SN74CB3T3306DCT	1	22242454R2	
Q8610	IC	S-24CS02AFT-V-G	1	22242360R2	
Q8610 or	IC	BR24L02FV-W	(1)	22242069R2	
Q8651	IC	BA18BC0FP	1	22278018DR2RH	
Q8651 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8651 or	IC	UPC2918T-E1-AZ	(1)	22278018ER2NE	
Q8652	IC	XC6213B332MR	1	22242277R2	
Q8653	IC	BA33BC0FP	1	22278033DR2RH	
Q8654	IC	BA18BC0FP	1	22278018DR2RH	
Q8654 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8654 or	IC	UPC2918T-E1-AZ	(1)	22278018ER2NE	
Q8701	IC	MPD70F3716GC-8EA	1	222W0054R3	
Q8801	IC	ADV7172	1	22242155R3	
D3002	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
D3012	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
D3022	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
D3205	C-DIODE	1SS352	1	223234R2	
D3205 or	C-DIODE	1SS355	(1)	223269R2	
D3225	C-DIODE	1SS352	1	223234R2	

D3225 or	C-DIODE	1SS355	(1)	223269R2
D3226	C-DIODE	1SS352	1	223234R2
D3226 or	C-DIODE	1SS355	(1)	223269R2
D8001	C-DIODE	CRS09(TE85L_Q)	1	223274R2
D8021	C-DIODE	1SS352	1	223234R2
D8021 or	C-DIODE	1SS355	(1)	223269R2
D8022	C-DIODE	1SS352	1	223234R2
D8022 or	C-DIODE	1SS355	(1)	223269R2
D8023 or	C-DIODE	1SS355	(0)	223269R2
D8024 or	C-DIODE	1SS355	(0)	223269R2
D8301	C-DIODE	1SS226(TE85L_F)	1	223266R2
D8301 or	DIODE	DAN217T146	(1)	223285R2
D8302	C-DIODE	1SS352	1	223234R2
D8302 or	C-DIODE	1SS355	(1)	223269R2
D8591	C-DIODE	CRS09(TE85L_Q)	1	223274R2
D8592	C-DIODE	CRS09(TE85L_Q)	1	223274R2
D8701	C-DIODE	1SS352	1	223234R2
D8701 or	C-DIODE	1SS355	(1)	223269R2
L1021	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L1022	EMIFIL	BK1608LM182-T	1	230958R1
L3001	CHOKE COIL	NCH-2541	1	231363K470
L3003	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3004	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3011	CHOKE COIL	NCH-2541	1	231363K470
L3013	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3014	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3021	CHOKE COIL	NCH-2541	1	231363K470
L3023	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3024	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3301	CHOKE COIL	LBC2518T470M	1	231364M470R2
L3311	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	BK1608HS102-T	1	230955R2
L3482	EMIFIL	BK1608HS102-T	1	230955R2
L3483	CHOKE COIL	LBC2518T470M	1	231364M470R2
L3491	CHOKE COIL	LBC2518T470M	1	231364M470R2
L3501	EMIFIL	ACF451832-333-T	1	230978R2
L3502	C-CARBON R	RN72K1J-330E	1	435033304R1
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	BK1608HS102-T	1	230955R2
L3601	EMIFIL	ACF451832-333-T	1	230978R2
L3602	C-CARBON R	RN72K1J-330E	1	435033304R1
L3641	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L3642	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3651	CHOKE COIL	BLM21PG221SN1	1	230949R2
L3931	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L3932	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L3933	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L3934	CHOKE COIL	LBC2518T470M	1	231364M470R2
L8001	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8002	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8003	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8004	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8005	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8006	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8007	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8008	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8009	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8010	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8011	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8012	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8014	CHOKE COIL	NCH-2541	1	231363K470
L8015	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8016	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8018	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8019	EMIFIL	BK1608LL241-T	1	230959R1
L8020	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8101	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8102	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
L8505	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8507	CHOKE COIL	NCH-2541	1	231363K470
L8508	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8525	CHOKE COIL	BLM21PG221SN1	1	230949R2

L8527	CHOKE COIL	NCH-2541	1	231363K470
L8528	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8601	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8602	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8603	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8604	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8605	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8606	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8607	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8608	EMIFIL	BK1608LL241-T	1	230959R1
L8701	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8801	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8901	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8902	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8903	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8904	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8905	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8906	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
X1021	CRYSTAL	HC-49/U03C24.576MHz	1	3010331R2
X3481	CRYSTAL	HC-49/USSMD25.00MHz	1	3010444R2
X3571	CRYSTAL	HC-49/U03C17.734M	1	3010430R2
X8001	CRYSTAL	FCX-03-19.6608M	1	3010439R2
X8501	CRYSTAL	HC-49-28.332MHz	1	3010417R2
X8701	CERA LOCK	CSTCR5M00G53-B0	1	3010356R2
C1021	C-CERA C	CK725F1H-104Z1	1	332151040R1
C1022	C-CERA C	CC725CH1H-060D1	1	342100602R1
C1023	C-CERA C	CC725CH1H-060D1	1	342100602R1
C3001	CD C	UCD1E221MNL1GS	1	396652217R2
C3002	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3003	CD C	UCD1A471MNL1GS	1	396634717R2
C3004	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C3005	C-CERA C	CK725F1H-223Z1	1	332152230R1
C3011	CD C	UCD1E221MNL1GS	1	396652217R2
C3012	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3013	CD C	UCD1A471MNL1GS	1	396634717R2
C3014	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C3015	C-CERA C	CK725F1H-223Z1	1	332152230R1
C3021	CD C	UCD1E221MNL1GS	1	396652217R2
C3022	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3023	CD C	UCD1A471MNL1GS	1	396634717R2
C3024	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C3025	C-CERA C	CK725F1H-223Z1	1	332152230R1
C3204	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3205	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3206	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3224	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3225	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3226	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3227	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3228	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3229	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3301	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3302	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3311	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3325	C-CERA C	CK725F1H-223Z1	1	332152230R1
C3326	C-CERA C	CK725F1H-223Z1	1	332152230R1
C3391	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3392	CHIP ELECT C	CEWX6.3V-47M	1	398124707R2
C3401	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3402	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C3403	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3405	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3411	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3412	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3413	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3414	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3415	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3416	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3417	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3418	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3419	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3420	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3421	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3425	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3426	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3427	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3428	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3429	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3430	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3431	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3432	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3433	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3434	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3435	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3451	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3452	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3453	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3461	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3462	C-CERA C	CK725F1H-104Z1	1	332151040R1

C3628	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3629	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3641	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3642	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3651	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3652	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3653	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3661	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3662	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3663	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3664	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3665	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3666	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3667	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3668	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C3931	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3932	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3933	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3934	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3935	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3936	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3938	C-CERA C	CC725CH1H-080D1	1	342100802R1
C3939	CHIP ELECT C	CEWX6.3V-100M	1	398121017R2
C3940	C-CERA C	CK725F1H-104Z1	1	332151040R1
C3941	C-CERA C	CC725CH1H-080D1	1	342100802R1
C3942	C-CERA C	CC725CH1H-080D1	1	342100802R1
C3946	C-CERA C	CK725F1H-103Z1	1	332151030R1
C3947	C-CERA C	CK725F1H-103Z1	1	332151030R1
C8001	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8002	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8003	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8004	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8005	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8006	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8007	C-CERA C	CC725CH1H-120J1	1	342101204R1
C8008	C-CERA C	CC725CH1H-120J1	1	342101204R1
C8009	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8010	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8011	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8012	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8013	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8014	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8015	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8016	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8017	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8018	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8019	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8020	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8021	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8022	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8023	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8024	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8025	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8026	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8027	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8028	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8029	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8030	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8031	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8032	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8033	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8034	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8035	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8036	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8037	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8038	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8039	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8040	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8041	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8042	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8043	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8044	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8045	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8046	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8047	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8048	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8049	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8051	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8055	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8056	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8057	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8060	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8061	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8062	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8063	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8064	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8065	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8066	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8067	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2

C8068	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8069	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8070	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8071	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8072	CHIP ELECT C	CEWX6.3V-100M	1	398121017R2
C8073	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8074	CD C	UCD1A471MNL1GS	1	396634717R2
C8075	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C8076	CD C	UCD1E221MNL1GS	1	396652217R2
C8077	C-CERA C	CK725F1H-223Z1	1	332152230R1
C8078	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8081	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8082	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8083	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8084	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8085	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8086	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8087	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8088	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8089	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8101	C-CERA C	CK725B1H-102K1	1	332101025R1
C8103	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8104	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8105	C-CERA C	CK725B1H-102K1	1	332101025R1
C8106	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8107	C-CERA C	CK725B1H-102K1	1	332101025R1
C8108	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8109	C-CERA C	CK725B1H-102K1	1	332101025R1
C8110	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8111	C-CERA C	CK725B1H-102K1	1	332101025R1
C8112	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8113	C-CERA C	CK725B1H-102K1	1	332101025R1
C8114	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8115	C-CERA C	CK725B1H-102K1	1	332101025R1
C8116	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8117	C-CERA C	CK725B1H-102K1	1	332101025R1
C8118	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8119	C-CERA C	CK725B1H-102K1	1	332101025R1
C8120	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8121	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8123	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8124	C-CERA C	CK725B1H-102K1	1	332101025R1
C8125	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8126	C-CERA C	CK725B1H-102K1	1	332101025R1
C8127	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8128	C-CERA C	CK725B1H-102K1	1	332101025R1
C8129	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8151	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8152	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8281	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8292	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8293	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8298	C-CERA C	CK725B1H-102K1	1	332101025R1
C8299	C-CERA C	CK725B1H-102K1	1	332101025R1
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	CK725B1H-102K1	1	332101025R1
C8399	C-CERA C	CK725B1H-102K1	1	332101025R1
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	CK725B1H-102K1	1	332101025R1
C8405	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8406	C-CERA C	CK725B1H-102K1	1	332101025R1
C8407	C-CERA C	CC725CH1H-100D1	1	342101002R1
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	CK725B1H-102K1	1	332101025R1
C8412	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8413	C-CERA C	CK725B1H-102K1	1	332101025R1
C8414	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8415	C-CERA C	CK725B1H-102K1	1	332101025R1
C8416	C-CERA C	CK725B1H-102K1	1	332101025R1
C8417	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8418	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8419	C-CERA C	CK725B1H-102K1	1	332101025R1
C8420	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8421	C-CERA C	CK725B1H-102K1	1	332101025R1
C8422	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8423	C-CERA C	CK725B1H-102K1	1	332101025R1
C8424	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8425	C-CERA C	CK725B1H-102K1	1	332101025R1
C8426	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8427	C-CERA C	CK725B1H-102K1	1	332101025R1
C8428	C-CERA C	CK725F1A-105Z1	1	332181050R1

C8603	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8604	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8605	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
C8606	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8607	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8608	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8609	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8662	C-CERA C	CK725F1H-223Z1	1	332152230R1
C8663	CD C	UCD1E221MNL1GS	1	396652217R2
C8664	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8669	CD C	UCD1A471MNL1GS	1	396634717R2
C8670	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C8675	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
C8676	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8679	CD C	UCD1A471MNL1GS	1	396634717R2
C8680	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
C8681	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8682	C-CERA C	CK725F1H-223Z1	1	332152230R1
C8683	CD C	UCD1E221MNL1GS	1	396652217R2
C8684	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8691	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8692	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8698	C-CERA C	CK725B1H-102K1	1	332101025R1
C8699	C-CERA C	CK725B1H-102K1	1	332101025R1
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
C8801	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8802	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
C8803	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8804	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8805	C-CERA C	CK725B1H-102K1	1	332101025R1
C8806	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8807	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8808	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8809	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8810	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8811	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8812	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8813	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8814	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8901	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8902	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8903	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8904	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8905	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8906	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8919	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8920	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8921	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8922	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8923	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8924	C-CERA C	CK725F1A-105Z1	1	332181050R1
R1021	C-CARBON R	RN72K1J-105JE	1	435031054R1
R1022	C-CARBON R	RN72K1J-470JE	1	435034704R1
R3002	C-CARBON R	RN72K1J-102JE	1	435031024R1
R3003	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3004	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3005	C-CARBON R	RN72K1J-222JE	1	435032224R1
R3012	C-CARBON R	RN72K1J-102JE	1	435031024R1
R3013	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3014	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3015	C-CARBON R	RN72K1J-222JE	1	435032224R1
R3022	C-CARBON R	RN72K1J-102JE	1	435031024R1
R3023	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3024	C-CARBON R	RN72K1J-392JE	1	435033924R1
R3025	C-CARBON R	RN72K1J-222JE	1	435032224R1
R3206	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3207	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3208	C-CARBON R	RN72K1J-393JE	1	435033934R1
R3226	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3227	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3228	C-CARBON R	RN72K1J-393JE	1	435033934R1
R3229	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3230	C-CARBON R	RN72K1J-273JE	1	435032734R1
R3231	C-CARBON R	RN72K1J-393JE	1	435033934R1
R3301	C-CARBON R	RN72K1J-331JE	1	435033314R1
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

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
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R3551	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R3553	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3554	C-CARBON R	RN72K1J-331JE	1	435033314R1
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-331JE	1	435033314R1
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-331JE	1	435033314R1
R3607	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3608	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3609	C-CARBON R	RN72K1J-470JE	1	435034704R1
R3610	C-CARBON R	RN72K1J-470JE	1	435034704R1
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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
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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
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R3656	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3657	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3658	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3659	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3931	C-CARBON R	RN72K1J-750JE	1	435037504R1
R3932	C-CARBON R	RN72K1J-750JE	1	435037504R1
R3933	C-CARBON R	RN72K1J-750JE	1	435037504R1
R3934	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3935	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3936	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3937	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3938	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3939	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3940	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3941	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3942	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8001	C-R NET	RM7LJ103X04	1	43484710304R2
R8002	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8003	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8004	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8005	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8007	C-R NET	RM7LJ330X04	1	43484733004R2
R8009	C-R NET	RM7LJ220X04	1	43484722004R2
R8010	C-R NET	RM7LJ220X04	1	43484722004R2
R8011	C-R NET	RM7LJ220X04	1	43484722004R2
R8012	C-R NET	RM7LJ220X04	1	43484722004R2
R8013	C-R NET	RM7LJ220X04	1	43484722004R2
R8014	C-R NET	RM7LJ220X04	1	43484722004R2
R8015	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8016	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8018	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8020	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8021	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8023	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8024	C-R NET	RM7LJ103X04	1	43484710304R2
R8025	C-R NET	RM7LJ103X04	1	43484710304R2
R8026	C-R NET	RM7LJ103X04	1	43484710304R2
R8027	C-R NET	RM7LJ103X04	1	43484710304R2
R8028	C-R NET	RM7LJ103X04	1	43484710304R2

R8029	C-R NET	RM7LJ103X04	1	43484710304R2
R8030	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8033	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8034	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8035	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8036	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8038	C-CARBON R	RN72K1J-471JE	1	435034714R1
R8040	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8041	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8042	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8043	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8044	C-CARBON R	RN72K1J-471JE	1	435034714R1
R8045	C-R NET	RM7LJ103X04	1	43484710304R2
R8046	C-CARBON R	RN72K1J-471JE	1	435034714R1
R8047	C-R NET	RM7LJ103X04	1	43484710304R2
R8048	C-CARBON R	RN72K1J-471JE	1	435034714R1
R8049	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8050	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8051	C-R NET	RM7LJ330X04	1	43484733004R2
R8052	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8053	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8054	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8055	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8056	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8057	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8058	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8062	C-R NET	RM7LJ220X04	1	43484722004R2
R8063	C-R NET	RM7LJ220X04	1	43484722004R2
R8066	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8067	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8070	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8071	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8072	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8073	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8074	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8075	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8076	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8077	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8078	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8079	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8081	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8082	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8083	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8084	C-CARBON R	RN72K1J-333JE	1	435033334R1
R8085	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8091	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8092	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8093	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8094	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8095	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8096	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8101	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8102	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8103	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8104	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8234	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8235	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8236	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8237	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8238	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8239	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8240	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8242	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8243	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8244	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8247	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8248	C-CARBON R	RN72K1J-473JE	1	435034734R1
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-182JE	1	435031824R1
R8335	C-CARBON R	RN72K1J-182JE	1	435031824R1
R8337	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8338	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8341	C-CARBON R	RN72K2E-100JE	1	435221004R1
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
R8408	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8409	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8410	C-CARBON R	RN72K1J-681JE	1	435036814R1
R8411	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8414	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8415	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
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
R8444	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8501	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8502	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8503	C-CARBON R	RN72K1J-330JE	1	435033304R1
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
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-CARBON R	RN72K1J-330JE	1	435033304R1
R8522	C-R NET	RM7LJ330X04	1	43484733004R2
R8523	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8524	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8534	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8535	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8536	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8537	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8538	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8539	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8540	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8542	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8543	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8544	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8547	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8548	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8591	C-CARBON R	RN72K1J-392JE	1	435033924R1
R8593	C-CARBON R	RN72K1J-152JE	1	435031524R1
R8594	C-CARBON R	RN72K1J-152JE	1	435031524R1
R8595	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8596	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8597	C-CARBON R	RN72K1J-821JE	1	435038214R1
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
R8634	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8635	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8636	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8637	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8638	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8639	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8640	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8642	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8643	C-CARBON R	RN72K1J-562JE	1	435035624R1
R8644	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8647	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8648	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8662	C-CARBON R	RN72K1J-105JE	1	435031054R1
R8702	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
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
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
R8736	C-R NET	RM7LJ220X04	1	43484722004R2
R8738	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8741	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8742	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8745	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8747	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8748	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8749	C-R NET	RM7LJ220X04	1	43484722004R2
R8750	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8751	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8753	C-R NET	RM7LJ220X04	1	43484722004R2
R8758	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
R8770	C-R NET	RM7LJ103X04	1	43484710304R2
R8772	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8773	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8774	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8801	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8803	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8804	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8805	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8806	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8807	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8808	C-CARBON R	RN72K1J-122JE	1	435031224R1
R8809	C-CARBON R	RN72K1J-122JE	1	435031224R1
R8810	C-CARBON R	RN72K1J-122JE	1	435031224R1
R8811	C-CARBON R	RN72K1J-122JE	1	435031224R1
R8812	C-R NET	RM7LJ220X04	1	43484722004R2
R8813	C-R NET	RM7LJ220X04	1	43484722004R2
R8814	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8815	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8816	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8817	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8901	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8902	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8903	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8904	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8905	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8906	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8907	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8908	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8909	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8910	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8911	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8912	C-CARBON R	RN72K1J-151JE	1	435031514R1
R8931	C-CARBON R	RN72K1J-223JE	1	435032234R1
R8932	C-CARBON R	RN72K1J-152JE	1	435031524R1
R8933	C-CARBON R	RN72K1J-152JE	1	435031524R1
R8934	C-CARBON R	RN72K1J-332JE	1	435033324R1
E3001	TRM(SCREW)	NEJITANSI M3	1	25065425
JL801B	WIRE TRAP	NPLG-8P591	1	25055629
P3491	PLUG	IMSA-9204B-2-13Z122-GF	1	25056542
P3801B	SOCKET	NSCT-20P1031	1	25051241
P3802B	SOCKET	NSCT-20P1031	1	25051241
P3803B	SOCKET	NSCT-5P1020	1	25051230
P3804	PIN JACK	NPJ-3PDO465	1	25045666
P4008B	SOCKET	NSCT-23P2116	1	25052219
P8011	SOCKET	NSCT-4P2238	1	25052341
P802B	PLUG	NPLG-13P141	1	25055157
P8201	SOCKET	YKF45-7037V	1	25053253R3
P8302	SOCKET	YKF45-7037V	1	25053253R3
P8501	SOCKET	YKF45-7037V	1	25053253R3
P8601	SOCKET	YKF45-7037V	1	25053253R3
P8702	SOCKET	NSCT-8P2242	1	25052345

TX-SR705/SA705

PACKING PROCEDURE PARTS LIST

REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
A501	CARTON	TX-SR705(B)MDC	1	29054810	(B), <DC>
A501	CARTON	TX-SR705(B)MMP	1	29054811	(B), <MP, MA, MO>
A501	CARTON	TX-SA705(S)MDC	1	29054812	(S), <DC>
A501	CARTON	TX-SR705(S)MMP	1	29054813	(S), <MP, MA, MO>
A501	CARTON	TX-SR705(G)M	1	29054814	(G), <DT, MT, MQ, MK>
A501	CARTON	TX-SA705(G)MMR	1	29054752B	<SA705>
A502	PAD	(AS)	1	29092364	
A503	POLY BAG	w850xd650	1	29100245	
A503a	UPC LABEL	TXSR705BMDC	1	29364997	(B)<DC>
A503a	EAN LABEL	TXSR705BMMP	1	29390001	(B)<MP>
A503a	EAN LABEL	TXSR705BMMA	1	29390003	(B)<MA>
A503a	EAN LABEL	TXSR705BMMO	1	29390005	(B)<MO>
A503a	UPC LABEL	TXSR705SMDC	1	29364998	(S)<DC>
A503a	EAN LABEL	TXSR705SMMP	1	29390002	(S)<MP>
A503a	EAN LABEL	TXSR705SMMA	1	29390004	(S)<MA>
A503a	EAN LABEL	TXSR705SMMO	1	29390006	(S)<MO>
A503a	EAN LABEL	TXSR705GMDT	1	29390010	(G)<DT>
A503a	EAN LABEL	TXSR705GMMK	1	29390007	(G)<MK>
A503a	EAN LABEL	TXSR705GMMQ	1	29390008	(G)<MQ>
A503a	EAN LABEL	TXSR705GMMT	1	29390009	(G)<MT>
A503a	EAN LABEL	TXSA705GMMR	1	29390011	<SA705>
A505	PP TAPE	W48 OPP TAPE	1	29110148	
A506	POLY BAG	w250xd350	1	29100250A	
A507	TAPE	(SEROHAN)NITTO NO.29	1	29110149	
A509	SHEET	(PAD)	1	29096065A	
A801	WRNTY CARD	(ONKYO)	1	29365102A	<DC>
A802	HANDBILL	(DS-A2X)US	1	29380150	<DC>
A803	HANDBILL	(DS-A2X)AUS	1	29380152	<MA>
A804	HANDBILL	(DS-A2X)EU	1	29380151	<MP>
A805	INST SHEET	En(XM RADIO)	1	29355602	<DC>
A807	INS MANUAL	U9(RC-687M-692M)	1	29344467	
A808	LABEL	(SP CABLE)	1	29363059A	
A811	INS MANUAL	En(TX-SR705/TX-SA705)	1	29344476	
A812	INS MANUAL	Cs(TX-SA705)	1	29344477	<SA705>
A813	INS MANUAL	Ct(TX-SR705)	1	29344478	<MO, DT, MQ, MT>
A814	INS MANUAL	U2FrEs(TX-SR705)	1	29344479	<DC, MP>
A815	INS MANUAL	U2ItDe(TX-SR705)	1	29344480	<MP>
A816	INS MANUAL	U2NiSv(TX-SR705)	1	29344481	<MP>
A817	INS MANUAL	Ar(TX-SR705)	1	29344482	<MO>
A818	INS MANUAL	En(QSS TX-SR705/TX-SA705)	1	29344483	
A819	INS MANUAL	Cs(QSS TX-SA705)	1	29344484	<SA705>
A820	INS MANUAL	Ar(QC ImportantSheet)	1	29344373	<MO>
A821	POLY BAG	250*300*W300	1	29100218A	<MP>
A822	WRNTY CARD	MGQ	1	29365099A	<MQ>
A826	INST SHEET	U10(HUDSON VCR)	1	29355657	
A827	INS MANUAL	EnFrES(XM/Sirius)	1	29344586	<DC>
A828	INST SHEET	U3EnFrEs(EZ Sync 805series)	1	29355647B	<DC>
A829	INST SHEET	U9(VIERA Link 805Series)	1	29355648B	<MP, MA, MO, DT, MK, MQ, MT, SA705>
A830	TRM	(WRENCH)	1	25060468	
A831	REMO CON	RC-693M	1	24140693	
A841	BATTERY	R6/AA(UM-3)	3	3010194	
A841 or	BATTERY	R6/AA(UM-3)	(3)	3010054	
A843	POLY BAG	w250xd350	1	29100250A	
A844	ANT COIL	NMA-3057	1	232140	<SR705>
A845	CV PLUG	SCP-13A-BLK(UK)	1	25056591	<MO>
A846	FM ANT AS	Type W	1	292191	<SR705>
A847	POLY BAG	t0.1*70*100	1	29100217	
A848	HANDBILL	(SIRIUS)	1	29380149	<DC>
A849	INST SHEET	U10(Remocon 805Series)	1	29355664	
A850	INST SHEET	U10(07REC HDMI)	1	29355689	
A851	TRM	(WRENCH)	1	25060468	<SA705>
A901	AC CORD	AS-CNS	1	253431VOL	!, <DT>
A901	AC CORD	AS-CEE-3	1	253298VOL	!, <MP, MO, MK, MT>
A901	AC CORD	AS-SAA	1	253391VOL	!, <MA>
A901	AC CORD	AS-BS	1	253425KAW	!, <MQ>
A901	AC CORD	AS-BS	(1)	253425YUN	!, <MQ>
A901	AC CORD	AS-CCC	1	253358VOL	!, <SA705>
A902	CAP	(AUX) SILVER	1	28330179	(S)MP
A903	CAP	(AUX) BLACK	1	28330178	(B)MP
U008	MIC AS	MIC-5000	1	1B068MIC	

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