

Technical Manual

SURROUND SOUND PROCESSOR **RSP-1069**

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Specifications

Audio

Total Harmonic Distortion

<0.008%

Intermodulation Distortion (60 Hz:7 kHz)

<0.008%

Frequency Response

10 Hz – 120 kHz, ± 3 dB (analog bypass)

10 Hz – 95 kHz, ± 3 dB (digital input)

Signal to Noise Ratio (IHF A-weighted)

95dB (analog bypass)

92dB (Dolby Digital, dts) 0dBfs

Input Sensitivity/Impedance

Line Level: 200 mV/100K ohms

Preamp Output Level/Output Impedance

1.0 V / 1K ohms

Contour (LF/HF)

± 6 dB at 50 Hz/15 kHz

Decodable Digital Input Signals

Dolby Digital, Dolby Digital EX, DTS, DTS-ES,

DTS 96/24, DTS ES 96/24, LPCM (up to 192K),

HDCD, DVD-A (HDMI HD ONLY)

Video

Input Resolutions

480i/576i

480p/576p

720p

1080i

1080p (HDMI only)

Output Resolutions

480i/576i (Composite, S-Video only)

480p/576p

720p

1080i

1080p (HDMI only)

HDMI Input/Output:

Version 1.1

Signal to Noise Ratio

45dB

Input Impedance

75 ohms

Output Impedance

75 ohms

Output Level

1.0 volt

General

Power Consumption:

80 watts

4.7 watts (standby)

Power Requirements (AC)

120 volts, 60Hz (USA version)

230 volts, 50Hz (CE version)

Weight

9.0 Kg/19.8 lb.

Dimensions (W x H x D)

432 x 122 x 341 mm

17.01" x 4.8" x 13.43"

Front Panel Height

(feet removed for rack mount)

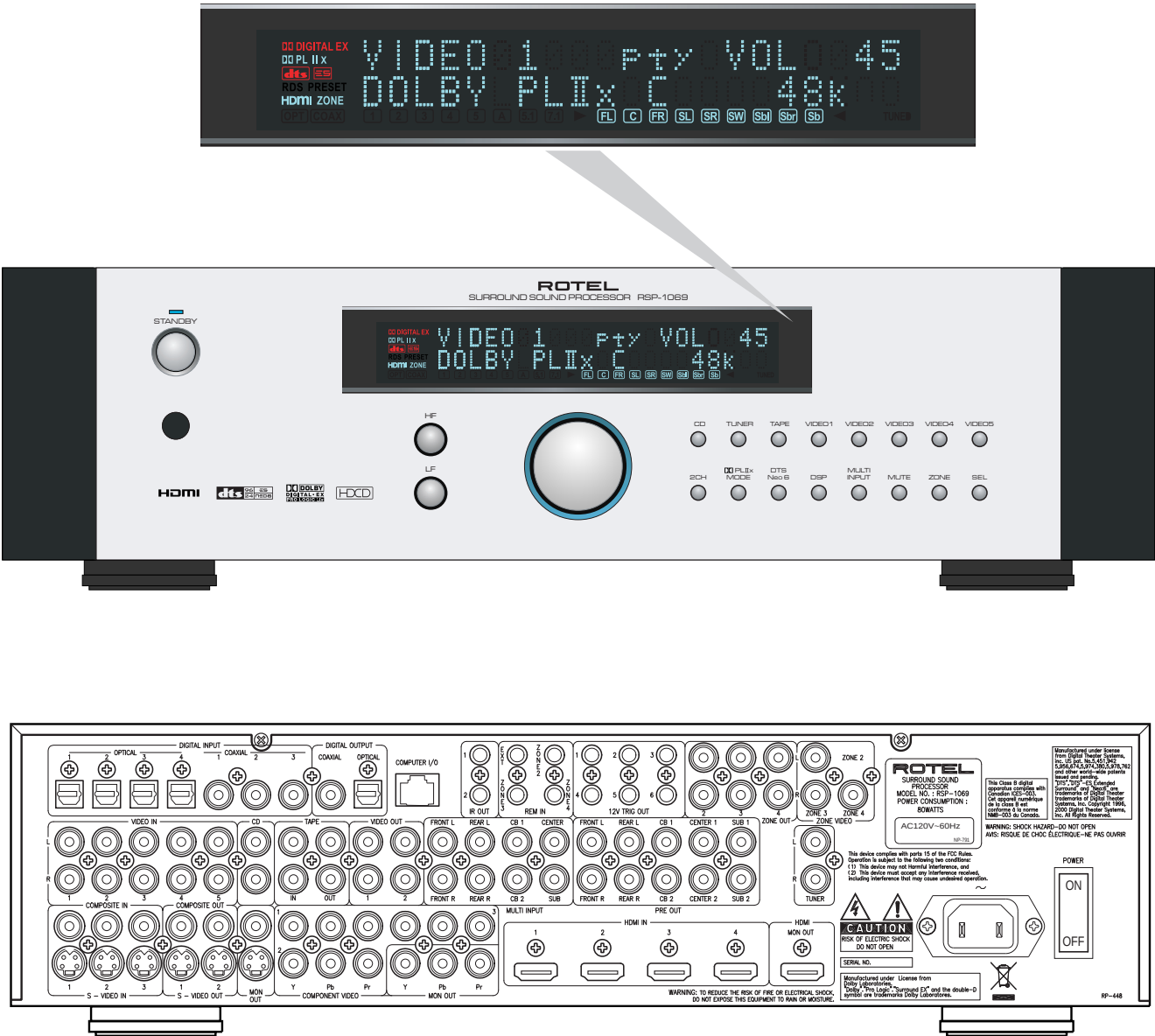
109 mm / 4.29"

THE ROTEL CO., LTD.

SHINSEN-BLD. 4F 10-10 SHINSEN-CHO, SHIBUYA-KU,
TOKYO 150-0045, JAPAN

Serial. NO.
Beginning

Y-407A-0709/pdf



SYMBOL	PARTS NO.	DESCRIPTION
016 X-1396A01-03 PCB ASSY		
	501 X-1396-B	PCB ASSY (ENCODER)
C131,132	043 TC50V101-A	CERAMIC CAPACITOR 100pF
C133-136	043 TC50V821-A	CERAMIC CAPACITOR 820pF
R131-136	053 CR14-103J-A	CARBON RESISTOR 1/4W 10K
E131	056 C-4678A01	ROTARY ENCODER EC16B243040F (D25) (VOLUME)
E132,133	056 C-4678A03	ROTARY ENCODER EC16B242040A (D20) (TONE)
SW131	061 C-4172A13	PUSH SWITCH SPUN12XT131
CP105	068 B2B-PH-KS	CONNECTOR WAFER 2P
016 E-1486C00 PCB ASSY		
	501 E-1486-B	PCB ASSY (AUDIO)
IC301	031 KIA7809AF-RTF/P	IC SMD (REG.+9VDC)
IC312,325	031 MM1631XJBE	IC SMD (AUDIO SWITCH)
IC304-311,316-320,322-324,326-344	031 NJM2068M	IC SMD (OPE DUAL)
IC302	031 TC9162CFG	IC SMD (SWITCH ALLEY)
IC321	031 TC9163CFG	IC SMD (SWITCH ALLEY)
IC303,313-315	031 TC9482BFG	IC SMD (VOLUME)
Q309,311,313,322	032 KRA107S	TRANSISTOR CHIP KRA107S
Q310,312,314	032 KRC107S	TRANSISTOR CHIP KRC107S
Q301-308,315-321	032 KRC231S	TRANSISTOR CHIP KRC231S
C353,422	041 TUTES1C101-7TF	ELECTROLYTIC CAPACITOR 16V100uF
C331,423	041 TUTES1E220-7TF	ELECTROLYTIC CAPACITOR 25V22uF
C301-305,307,308,311,312,314,333,334,337	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C338,341,342,348,372-375,383,384,387,388	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C390,392,393,396,397,399,400,415,420,421	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C425,426,437-444,456,457,459-470,489,490	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C306,309,310,313,315,316,317,318,321,322	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C332,335,336,339,340,343,360-367	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C377,378,380-382,385,386,389,391,394,395	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C398,424,427-435,445,446,448-455,458	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C479-488,491-504,511,512,515,516,519,520	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C523,524,544-571,728,729,732,733	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C535	047 ECJ2VB1H333K	CERAMIC CAPACITOR CHIP 0.033uF
C622-707,716-723,730,731	047 ECJ2VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C447,509	047 ECJ2VF1H224Z	CERAMIC CAPACITOR CHIP 0.22uF
C708-715	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
C326,330,347,352,478,525,534,536-543	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
C586-593,608-621	047 ECJ2VG1H101J	CERAMIC CAPACITOR CHIP 100pF
C323-325,327-329,356-359	047 ECJ2VG1H220J	CERAMIC CAPACITOR CHIP 22pF
C403-410,471-477,526-533	047 ECJ2VG1H220J	CERAMIC CAPACITOR CHIP 22pF
C354,355,436	047 ECJ2VG1H222J	CERAMIC CAPACITOR CHIP 0.0022uF
C319,320,344-346,349-351,368-371,376,379	047 ECJ2VG1H470J	CERAMIC CAPACITOR CHIP 47pF
C401,402,411-414,416-419,505-508,510	047 ECJ2VG1H470J	CERAMIC CAPACITOR CHIP 47pF
C513,514,517,518,521,522,572-585,594-607	047 ECJ2VG1H470J	CERAMIC CAPACITOR CHIP 47pF
C724,725,726,727	047 ECJ2VG1H470J	CERAMIC CAPACITOR CHIP 47pF
R307-311,313,314,317,318,321,336-338,355	055 ERJ6ENF1000V	RESISTOR CHIP 100
R356,359,360,372,392,393,396,397	055 ERJ6ENF1000V	RESISTOR CHIP 100
R400,401,404,405,414-416,418,419,425,431	055 ERJ6ENF1000V	RESISTOR CHIP 100
R432,435,436,439,440,443,444,448,473,478	055 ERJ6ENF1000V	RESISTOR CHIP 100
R487-490,492,493,496,497,499,501,502,505	055 ERJ6ENF1000V	RESISTOR CHIP 100
R506,508,509,512-519,524-536,545-554,563	055 ERJ6ENF1000V	RESISTOR CHIP 100
R566-568,577,578,611,614,615,618,619,622	055 ERJ6ENF1000V	RESISTOR CHIP 100
R623,626,627,630,631,634,635,638,677,680	055 ERJ6ENF1000V	RESISTOR CHIP 100
R681,684,685,688,689,692,693,696,697	055 ERJ6ENF1000V	RESISTOR CHIP 100
R700,701,704,754-757	055 ERJ6ENF1000V	RESISTOR CHIP 100
R301-306,312,315,316,319,320,323,324,327	055 ERJ6ENF1001V	RESISTOR CHIP 1K

SYMBOL	PARTS NO.	DESCRIPTION
R328,330-332,335,352,354,357,358,361,370	055 ERJ6ENF1001V	RESISTOR CHIP 1K
R371,411-413,426,429,438,441,442,445-447	055 ERJ6ENF1001V	RESISTOR CHIP 1K
R469-472,474,475,537-544,587-590,639,641	055 ERJ6ENF1001V	RESISTOR CHIP 1K
R643,645,647,649,651,653,655-660	055 ERJ6ENF1001V	RESISTOR CHIP 1K
R705-721,731-738,746,748,749	055 ERJ6ENF1001V	RESISTOR CHIP 1K
R739-745	055 ERJ6ENF1002V	RESISTOR CHIP 10K
R351,353,363,364,366-369,373-376,391,394	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R395,398,399,402,403,406-410,417,420,449	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R452,476,477,479-486,491,494,495,498,500	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R503,504,507,520,521,564,565,569-576	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R603-610,612,613,616,617,620,621,624,625	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R628,629,632,633,636,637,640,642,644,646	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R648,650,652,654,661,664,665,668,669,672	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R673,676,678,679,682,683,686,687,690,691	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R694,695,698,699,702,703,722-730,747	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R750-753	055 ERJ6ENF1003V	RESISTOR CHIP 100K
R377,378	055 ERJ6ENF10R0V	RESISTOR CHIP 10
R600,602	055 ERJ6ENF1202V	RESISTOR CHIP 12K
R599	055 ERJ6ENF1801V	RESISTOR CHIP 1.8K
R340,341,344,346,379,382,384,385,388,389	055 ERJ6ENF2001V	RESISTOR CHIP 2K
R322,325,326,329,461,464,465,468	055 ERJ6ENF2201V	RESISTOR CHIP 2.2K
R591,593,595,597,601,663,667,671,675	055 ERJ6ENF2702V	RESISTOR CHIP 27K
R362,365	055 ERJ6ENF3300V	RESISTOR CHIP 330
R421-424,430,433,434,437,510,522,555-562	055 ERJ6ENF3301V	RESISTOR CHIP 3.3K
R339,342,343,383,386,387,390	055 ERJ6ENF4701	RESISTOR CHIP 4.7K
R450,451,453-460,511,523,592,594,596	055 ERJ6ENF4701	RESISTOR CHIP 4.7K
R598,662,666,670,674	055 ERJ6ENF4701	RESISTOR CHIP 4.7K
R333,334,427,428	055 ERJ6ENF4703V	RESISTOR CHIP 470K
R347-350,462,463,466,467	055 ERJ6ENF5601V	RESISTOR CHIP 5.6K
R579-586	055 ERJ6ENF5602V	RESISTOR CHIP 56K
R345,380,381	055 ERJ6ENF7501V	RESISTOR CHIP 7.5K
JAK308	066 C-4764A01	2P PIN JACK (W/R)
JAK307	066 C-4784A02	4P PIN JACK (B)
JAK301-304,306	066 C-4792A01	6P PIN JACK (W/R)
JAK305	066 C-4832A01	4P PIN JACK (W/R/B)
CN303	068 B12B-PH-KS	CONNECTOR WAFER 12P
CP402	068 B3B-PH-KS	CONNECTOR WAFER 3P
CP306	068 B4B-PH-KS	CONNECTOR WAFER 4P
016 E-1488E00 PCB ASSY		
	501 E-1488-B	PCB ASSY (HDMI SWITCH)
L601-616	021 ACM2012D	EMC FILTER COIL ACM2012D-900-2P
L617-620	021 ACM2012H	EMC FILTER COIL ACM2012H-900-2P
IC631	023 CXOSMD-004	CRYSTAL SMD 27.000MHZ
XT605	023 HC49USMD-013	CRYSTAL SMD 13.500MHZ
XT601	023 HC49USMD-014	CRYSTAL SMD 28.322MHZ
XT604	023 HC49USMD-015	CRYSTAL SMD 5.000MHZ
L652	025 BK2125HS102	BEAD COIL CHIP BK2125HS102-T
L623,624,626,628,640-642,645-648,667-669	025 BK2125HS102	BEAD COIL CHIP BK2125HS102-T
L661-665	025 BK2125HS601	BEAD COIL CHIP BK2125HS601-T
L621,622,625,627,629,633-636,638,639	025 BK2125HS601	BEAD COIL CHIP BK2125HS601-T
L643,644,649-651,666	025 BK2125HS601	BEAD COIL CHIP BK2125HS601-T
L630-632	025 CM2012F100K	INDUCTOR CHIP 10uH
ZD601	031 AD1580BRTZ	IC (VOLTAGE REFERENCE)
IC629	031 ADV7322KSTZ	IC SMD (VIDEO ENCODER)
IC623	031 ADV7401BSTZ-110	IC SMD (VIDEO DECODER)
IC610,617	031 AME1117ACGT	IC SMD (REGULATOR) ABE AME1117ACGTZ

SYMBOL	PARTS NO.	DESCRIPTION
IC640	031 AME1117BCGT	IC SMD (REGULATOR) AKE AME1117BCGTZ
IC621,624,638	031 AME1117CCGT	IC SMD (REGULATOR) ABF AME1117CCGTZ
IC625,641	031 AME1117ECGT	IC SMD (REGULATOR) AXH AME1117ECGTZ
IC611	031 AME8801SEEV	IC SMD (REGULATOR) AME8801SEEVZ
IC602,604,606,608,642	031 BR24L08F-W	IC SMD (EEPROM)
IC628	031 FLI2300-LF-CF	IC SMD (CONVERTER)
IC620	031 K4S643232H-UC60	IC SMD (SDRAM)
IC615,650	031 NC7SZ08M5-NL	IC SMD (AND GATE)
IC633,634,637,648	031 NC7SZ125M5-NL	IC SMD (TRISTATE BUFFER)
IC614	031 NJW1320FP1	IC SMD (VIDEO SWITCH)
IC644-646	031 PI6CV304LE	IC SMD (CLOCK BUFFER)
IC616	031 SII9030CTU-7	IC SMD (TRANSMITTER)
IC622	031 SII9031CTU-7	IC SMD (RECEIVER)
IC635,643	031 SN74ALVC244PWR	IC SMD (BUFFEDRIVER)
IC647	031 SN74ALVCH162827GR	IC SMD (BUFFEDRIVER)
IC630	031 SN74ALVCH162827GR	IC SMD (BUFFEDRIVER)
IC649	031 SN74CB3Q3305	IC SMD (BUS SWITCH) SN74CB3Q3305PER
IC636	031 SN74LVC257APWR	IC SMD (MULTIPLEXER)
IC613,618	031 THS7353PW	IC SMD (VIDEO BUFFER)
IC612	031 TMDS341	IC SMD (SWITCH)
IC601,603,605,607	031 TS5A23157DGSR	IC SMD (ANALOG SWITCH)
IC639	031 UPD70F03701GB-X58	IC SMD (SOFT WRITING) Scalar CPU and Flash
Q613-615,617,621-624	032 KRC107S	TRANSISTOR CHIP KRC107S
Q608-610,625,639,640	032 KRC107S	TRANSISTOR CHIP KRC107S
Q632,634,636,638	032 KRC231S	TRANSISTOR CHIP KTA1504S
Q631,633,635,637	032 KRC231S	TRANSISTORANSISTOR CHIP
Q616,618-620	032 KTA1504S	TRANSISTOR CHIP UPA672T
Q611,612,641	032 NDC7002N	DUAL FET SMD
Q626-630	032 UPA672T	DUAL FET SMD
CV601-610	034 AVRL101	VARISTOR DIODE
ZD602,603,608-611	034 KDZ6.2V	ZENER DIODE KDZ6.2V
D605-614	034 RCLAMP0514M	DIODE RCLAMP0514M.TBT
D616	034 T1N4004-TB	DIODE 1N4004-F (AMMO)
D621	037 KDS184RTK	DIODE CHIP KDS184RTK
ZD604-607	037 KDS226RTK	DIODE CHIP KDS226RTK
D615	037 KDS226RTK	DIODE CHIP KDS226RTK
C635,643,673,686,721,736,741	047 ECFS1A221M	ELECTROLYTIC CAPACITOR SMD 10V220uF
C617-619,735,737	047 ECFS1A471M	ELECTROLYTIC CAPACITOR SMD 10V470uF
C608-616,622,626,628,630,632-634,637	047 ECFS1C100M	ELECTROLYTIC CAPACITOR SMD 16V10uF
C641,646-648,664,671,683,691	047 ECFS1C100M	ELECTROLYTIC CAPACITOR SMD 16V10uF
C705,716,717,719,720	047 ECFS1C100M	ELECTROLYTIC CAPACITOR SMD 16V10uF
C623,667,672,678,680,687,690	047 ECFS1C101M	ELECTROLYTIC CAPACITOR SMD 16V100uF
C715,722,728,730,743,749	047 ECFS1C101M	ELECTROLYTIC CAPACITOR SMD 16V100uF
C621,624,642,644,645,665,676,677,694	047 ECFS1C470M	ELECTROLYTIC CAPACITOR SMD 16V47uF
C701-703,718	047 ECFS1C470M	ELECTROLYTIC CAPACITOR SMD 16V47uF
C620,625,627,629	047 ECFS1E470M	ELECTROLYTIC CAPACITOR SMD 25V47uF
C711,724,943,944,955	047 ECFS1E4R7M	ELECTROLYTIC CAPACITOR SMD 25V4.7uF
C631	047 ECFS1H010M	ELECTROLYTIC CAPACITOR SMD 50V1uF
C689,750,791,810,821,884,885,895,898,899	047 ECJ1VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C904,905,908,909,911,912,916,922-925	047 ECJ1VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C929,930,936-940,942,948-950,962	047 ECJ1VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C606,607,675,679,692,695,696,699	047 ECJ1VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C700,704,708,709,739,748,956,963-969	047 ECJ1VB1H103K	CERAMIC CAPACITOR CHIP 0.01uF
C682	047 ECJ1VB1H392K	CERAMIC CAPACITOR CHIP 3900pF
C809	047 ECJ1VB1H822K	CERAMIC CAPACITOR CHIP 8200pF
C808	047 ECJ1VB1H823K	CERAMIC CAPACITOR CHIP 0.082pF
C945-947	047 ECJ1VC1H020C	CERAMIC CAPACITOR CHIP 2pF

SYMBOL	PARTS NO.	DESCRIPTION
C830,831,840,970	047 ECJ1VC1H050C	CERAMIC CAPACITOR CHIP 5pF
C933-935	047 ECJ1VC1H100D	CERAMIC CAPACITOR CHIP 10pF
C957	047 ECJ1VC1H100D	CERAMIC CAPACITOR CHIP 10pF
C807,822	047 ECJ1VC1H180J	CERAMIC CAPACITOR CHIP 18pF
C755,756,841-843	047 ECJ1VC1H220J	CERAMIC CAPACITOR CHIP 22pF
C753,754	047 ECJ1VC1H330J	CERAMIC CAPACITOR CHIP 33pF
C681	047 ECJ1VC1H821J	CERAMIC CAPACITOR CHIP 820pF
C824,880,881	047 ECJ1VF1C105Z	CERAMIC CAPACITOR CHIP 16V1uF
C650,655-660,668-670	047 ECJ1VF1C105Z	CERAMIC CAPACITOR CHIP 16V1uF
C601,604,605,697,707	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C688,751,752,757-783,785-790,792,793	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C795-805,811-820,823,826,829,833-836	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C839,844,847-879,882,883,887-892,897	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C900-903,910,913-915,917-921,926-928,932	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C602,603,636,639,649,651,661-663	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C666,684,685,693,698	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C706,710,714,725-727,729,731-734	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C738,740,742,744-747,941,961	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C806,825,832,906,931	047 ECJ1VG1H102J	CERAMIC CAPACITOR CHIP 1000pF
C674,886	047 ECJ1VG1H102J	CERAMIC CAPACITOR CHIP 1000pF
R713,727	054 1WS4.7JF	MOF RESISTOR 1W 4.7
R976	054 1WS6.8JF	MOF RESISTOR 1W 6.8
R623,624,640,647,652,655-658,664,666	055 CN43-220	NETWORK RESISTOR CHIP 22
R668,670,679,682,686-690,706,707	055 CN43-220	NETWORK RESISTOR CHIP 22
R748-751,756,780,815,820,830,940,941,975	055 ERJ3EKF1000V	RESISTOR CHIP 100
R626,628,631,680,703,704,716,717	055 ERJ3EKF1000V	RESISTOR CHIP 100
R720-725,732,734,735,737,739,741,743,745	055 ERJ3EKF1000V	RESISTOR CHIP 100
R938,939,942,948,949	055 ERJ3EKF1000V	RESISTOR CHIP 100
R757,821,828,918-921	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R777	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R619,810,827,834-837,852,864,865	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R868,871,880,904,952	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R683,685,691,693,695,698,700,701	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R925,982-984	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R784	055 ERJ3EKF1004V	RESISTOR CHIP 1M
R603-605,764	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R601,602	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R822,909	055 ERJ3EKF1200V	RESISTOR CHIP 120
R798-800	055 ERJ3EKF1500V	RESISTOR CHIP 150
R824,831-833,842,862	055 ERJ3EKF1501V	RESISTOR CHIP 1.5K
R781	055 ERJ3EKF1691V	RESISTOR CHIP 1.69K
R761	055 ERJ3EKF1820V	RESISTOR CHIP 182
R786	055 ERJ3EKF2000V	RESISTOR CHIP 200
R845,872,874,875	055 ERJ3EKF2001V	RESISTOR CHIP 2K
R907,912	055 ERJ3EKF2001V	RESISTOR CHIP 2K
R606,917	055 ERJ3EKF2002V	RESISTOR CHIP 20K
R607,608	055 ERJ3EKF2002V	RESISTOR CHIP 20K
R891-893	055 ERJ3EKF2202V	RESISTOR CHIP 22K
R654,767-769,771,774,776	055 ERJ3EKF22R1V	RESISTOR CHIP 22.1
R620,625,630,634,641,650,651,653	055 ERJ3EKF22R1V	RESISTOR CHIP 22.1
R659-663,671-677,684,696,697,699,702,779	055 ERJ3EKF22R1V	RESISTOR CHIP 22.1
R927,950,951,953	055 ERJ3EKF22R1V	RESISTOR CHIP 22.1
R789,790	055 ERJ3EKF2701V	RESISTOR CHIP 2.7K
R635-637	055 ERJ3EKF3000V	RESISTOR CHIP 300
R638,642	055 ERJ3EKF3001V	RESISTOR CHIP 3K
R846,873	055 ERJ3EKF3301V	RESISTOR CHIP 3.3K
R669	055 ERJ3EKF3303V	RESISTOR CHIP 330K

SYMBOL	PARTS NO.	DESCRIPTION
R840	055 ERJ3EKF4641V	RESISTOR CHIP 4.64K
R807	055 ERJ3EKF4700V	RESISTOR CHIP 470
R752-755,763,782,783,787,829,847	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R853-855,857,863,869,958,978,979	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R648,649,708-712,715,718,719,729-731	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R733,736,738,740,742,744,908,911,926	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R946,947,955-957,980,981	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R895,896,898,899,901,902,905,906	055 ERJ3EKF4702V	RESISTOR CHIP 47K
R616,617,928-935	055 ERJ3EKF4702V	RESISTOR CHIP 47K
R758	055 ERJ3EKF4703V	RESISTOR CHIP 470K
R856	055 ERJ3EKF4750V	RESISTOR CHIP 475
R646,778	055 ERJ3EKF47R0V	RESISTOR CHIP 47
R794-797,801,805	055 ERJ3EKF6040V	RESISTOR CHIP 604
R639	055 ERJ3EKF6800V	RESISTOR CHIP 680
R841	055 ERJ3EKF6802V	RESISTOR CHIP 68K
R823,910,922-924	055 ERJ3EKF7500V	RESISTOR CHIP 750
R759,760,762,882-890	055 ERJ3EKF75R0V	RESISTOR CHIP 75
R610,870,876	055 ERJ3EKF75R0V	RESISTOR CHIP 75
R765,766,775,785,788,791-793	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R806,808,894,897,900,903,943-945	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R962,966,970,974	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R618,627,629,633,643-645,678,681	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R714,726,728,746,937,959,963,967,971	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R632	055 ERJ3RQF2R2V	RESISTOR CHIP 2.2
L658-660	055 ERJ6GEYJ2R2V	RESISTOR CHIP 2.2
JK601,602	066 C-4833A01	PIN JACK 6P (G .BLU.R)
J601-605	066 C-4963A01	HDMI SOCKTE
016 E-1489B00 PCB ASSY		
	501 E-1489-B	PCB ASSY (VIDEO)
L501-503	021 TLAL02TB100K	MICRO INDUCTOR 10uH
L504,506,509,512	021 TLAL02TB4R7K	MICRO INDUCTOR 4.7uH
L505,507,508	021 TLAL02TB6R8K	MICRO INDUCTOR 6.8uH
XT501	023 HC49U-001WR	CRYSTAL 14.31818MHZ
L510,511	025 BK2125HS601	BEAD COIL CHIP BK2125HS601-T
IC516,517,521	031 AD8063ART	IC SMD (AMP) ADV8063ARTZ-R2
IC524	031 MB90050PF-G-001	IC SMD (OSD)
IC522	031 MM1108XFFE	IC SMD (SYNC SEPARATOR)
IC504,505,515	031 MM1227XFBE	IC SMD (VIDEO SWITCH)
IC506-514,518-520	031 MM1508XNRE	IC SMD (VIDEO SWITCH)
IC525	031 NJM7805FA	IC (REG. +5VDC)KIA7805API
IC523	031 NJM7808FA	IC (REG.+8VDC)KIA7808API
IC501-503	031 TEA6425D	IC SMD (VIDEO SWITCH)
Q503	032 KRC107S	TRANSISTOR CHIP KRC107S
Q501,502,504,505	032 KTC3875S-Y	TRANSISTOR KTC3875S-Y-RTK
D501-503	037 KDS226RTK	DIODE CHIP KDS226RTK
C503,505,507-515,522-524,528,529	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
C541-550,560,567-569	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
C502,504,506,519-521,572-574	041 TUTES1A471-7TF	ELECTROLYTIC CAPACITOR 10V470uF
C583,587	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C552	041 TUTES1H010-7TF	ELECTROLYTIC CAPACITOR 50V1uF
C501,530-540,551,553-555,557-559	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C561,562,566,570,575,582,584-586	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C580	041 TUTES1H3R3-7TF	ELECTROLYTIC CAPACITOR 50V3.3uF
C589-632,634,639,643-646,648-651	047 3535104122	CERAMIC CAPACITOR CHIP 0.1uF
C581	047 3535104122	CERAMIC CAPACITOR CHIP 0.1uF
C647,652,653	047 3535200122	CERAMIC CAPACITOR CHIP 20pF

SYMBOL	PARTS NO.	DESCRIPTION
C516-518,525-527	047 3535224122	CERAMIC CAPACITOR CHIP 0.22uF
C578	047 3535392122	CERAMIC CAPACITOR CHIP 3900pF
C633	047 ECJ1VC1H100D	CERAMIC CAPACITOR CHIP 10pF
C564,571	047 ECJ1VC1H100D	CERAMIC CAPACITOR CHIP 10pF
C642	047 ECJ1VC1H101J	CERAMIC CAPACITOR CHIP 100pF
C577	047 ECJ1VC1H102J	CERAMIC CAPACITOR CHIP 1000pF
C637,638,641	047 ECJ1VC1H220J	CERAMIC CAPACITOR CHIP 22pF
C556,579	047 ECJ1VC1H561J	CERAMIC CAPACITOR CHIP 560pF
C635,636,640	047 ECJ1VC1H820J	CERAMIC CAPACITOR CHIP 82pF
R602,605	054 1WS10J	MOF RESISTOR 1W 10
R620	055 ERJ3EKF1000V	RESISTOR CHIP 100
R544-547,561,566,576,591	055 ERJ3EKF1000V	RESISTOR CHIP 100
R521,523,594,612-614	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R578-581,586,593,616,617	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R596,604	055 ERJ3EKF1003V	RESISTOR CHIP 100K
R501	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R528,529,550,551,553-560,562,563	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R575,577,582,583	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R520,522	055 ERJ3EKF2001V	RESISTOR CHIP 2K
R599,601	055 ERJ3EKF2202V	RESISTOR CHIP 22K
R587,588	055 ERJ3EKF2701V	RESISTOR CHIP 2.7K
R572,573,597	055 ERJ3EKF3000V	RESISTOR CHIP 300
R571	055 ERJ3EKF3303V	RESISTOR CHIP 330K
R606,607	055 ERJ3EKF33R0V	RESISTOR CHIP 33
R530-543,552,589,592,600	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R564,565	055 ERJ3EKF5600V	RESISTOR CHIP 560
R621-623	055 ERJ3EKF6040V	RESISTOR CHIP 604
R567,569,584	055 ERJ3EKF6040V	RESISTOR CHIP 604
R511-519	055 ERJ3EKF68R0V	RESISTOR CHIP 68
R502-510	055 ERJ3EKF75R0V	RESISTOR CHIP 75
R595	055 ERJ3EKF8202V	RESISTOR CHIP 82K
R524,608-611,615	055 ERJ3GEY0R00V	RESISTOR CHIP 0
R598,603	055 ERJ3RQF1R0V	RESISTOR CHIP 1
R525-527	055 ERJ3RQF2R2V	RESISTOR CHIP 2.2
JK501-503	066 C-4964A01	2P PIN JACK + DIN JACK
CP601	068 B12B-PH-KS	CONNECTOR WAFER 12P
CP605	068 B4B-PH-KS	CONNECTOR WAFER 4P
016 X-1494A01-02 PCB ASSY		
	501 X-1494-B	PCB ASSY (FRONT)
XT101	023 CSTLS16M0X51BO	CERAMIC RESONATOR
IC101	031 CXP81120-127Q	IC SMD (CPU) MASKING
RMC101	031 RPM7138H9	IC (REMOTE RECEIVER)
IC102-104	031 TD62C950RF	IC SMD (FL DISPLAY) TD62C950RFG
Q101,102	032 KRC107S	TRANSISTOR CHIP KRC107S
FL101	035 HNA22ML04	FL TUBE
D101,102	037 KDS184RTK	DIODE CHIP
C103	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C105,106	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C101	041 TUTES1H3R3-7TF	ELECTROLYTIC CAPACITOR 50V3.3uF
C102,104	047 ECJ2VB1H223K	CAPACITOR CAPACITOR CHIP 0.022uF
C130	047 ECJ2VF1H104Z	CAPACITOR CAPACITOR CHIP 0.1uF
C107-109	047 ECJ2VF1H104Z	CAPACITOR CAPACITOR CHIP 0.1uF
R111-113,116	055 ERJ6ENF1002V	RESISTOR CHIP 10K
R115	055 ERJ6ENF10R0V	RESISTOR CHIP 10
(R114)	055 ERJ6ENF1800V	RESISTOR CHIP 180
(R114)	055 ERJ6ENF4700V	RESISTOR CHIP 470

SYMBOL	PARTS NO.	DESCRIPTION
R109	055 ERJ6ENF4701V	RESISTOR CHIP 4.7K
R120	055 ERJ6ENF4702V	RESISTOR CHIP 47K
R101-108	055 ERJ6ENF4702V	RESISTOR CHIP 47K
R110,117	055 ERJ6GEY0R00V	RESISTOR CHIP 0
SW101-116	061 C-4679A03	TACT SWITCH 5mm GRY HV061050GS
CP104	068 B2B-PH-KS	CONNECTOR WAFER 2P
CP103	068 B3B-PH-KS	CONNECTOR WAFER 3P
CP101	068 B8B-PH-KS	CONNECTOR WAFER 8P
016 E-1495C00 PCB ASSY		
	501 E-1495	PCB ASSY (DIGITAL)
L401-404	021 2888100012	PULSE TRANS. EP7-01-201M
IC418	023 CXOSMD-003	CRYSTAL SMD 24.576MHz
XT402	023 HC49USMD-015	CRYSTAL SMD 5.00MHz
L419,421	025 BK2125HS101	BEAD COIL CHIP BK2125HS101-T
L405,407,409,410,411,413,414,417	025 BK2125HS102	BEAD COIL CHIP BK2125HS102-T
L406,408,412,415,416,418,420	025 BK2125HS601	BEAD COIL CHIP BK2125HS601-T
IC406	031 74HC157	IC SMD (QUAD MPX) 74VHC157
IC417	031 74HC244	IC SMD (OCTAL BUFFER) 74VHC244
IC422	031 74HCT125	IC SMD (QUAD BUFFER) 74HCT125D
IC414	031 AK4114VQ	IC SMD (D/A TRANSCEIVER) AK4114VQP
IC438	031 AME1117CCGT	IC SMD (REGULATOR) ABF AME1117CCGTZ
IC434	031 AT24C16A10PU-2.7	IC DIP (EPROM)
IC411,415,423,426	031 DSD1791DB	IC SMD (DAC)
IC433	031 ES29LV160E-X58	IC SMD (SOFT WRITING) DSP ROM
IC410	031 HEF4094BT	IC SMD (SHIFT REGISTER)
IC405	031 HIN232CB	IC SMD (TRANSMITTER RECEIVER) HIN232CBZ
IC432	031 K4S641632K-UC75	IC SMD (MEMORY)
IC401-404	031 LTV817	IC (PHOTO COUPLER)
IC407-409,412,419,424,427-430,435,436,439	031 NJM2068M	IC SMD (OPE DUAL)
IC437	031 PCM1804DBG4	IC SMD (ADC)
IC413,425	031 SN74LVC1G125DBV	IC SMD (BUFFER)
IC420	031 SN74LVC1G3157DB	IC SMD ANALOG SWITCH)
IC416	031 TC9482BFG	IC SMD (VOLUME)
IC431	031 TMS320DA610	IC SMD (DSP)
IC421	031 UPD70F3712-P69	IC SMD (SOFT WRITING) Main CPU and Flash
Q419	032 KRA107S	TRANSISTOR CHIP KRA107S
Q413-418,420,421	032 KRC107S	TRANSISTOR CHIP KRC107S
Q401-406	032 KRC231S	TRANSISTOR CHIP KRC231S
Q407-412	032 TA1450-ST	TRANSISTOR 2SA1450AA-ST
D401-403	037 KDS184RTK	DIODE CHIP KDS184RTK
C507	041 TEEUFC1H4R7B	ELECTROLYTIC CAPACITOR 50V4.7uF
C467,509,541,589,630,657,718,719	041 TUTES1A101-7TF	ELECTROLYTIC CAPACITOR 10V100uF
C490	041 TUTES1A471-7TF	ELECTROLYTIC CAPACITOR 10V470uF
C465,466,472,489,504-506,515,520,525	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C538-540,546,565,568,582,585,586,600-605	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C611,616,623,649,654,655,669,686,687	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C702,703,705,710,722	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C426,433,448,449,485,522,564,618	041 TUTES1H010-7TF	ELECTROLYTIC CAPACITOR 50V1uF
C650,704	041 TUTES1H0R1-7TF	ELECTROLYTIC CAPACITOR 50V0.1uF
C440-445,447,473-478,484,496,521,533	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C537,563,572-577,617,670-676,713	041 TUTES1H100-7TF	ELECTROLYTIC CAPACITOR 50V10uF
C508	041 TUTES1H3R3-7TF	ELECTROLYTIC CAPACITOR 50V3.3uF
C486	041 TUTES1HR22-7TF	ELECTROLYTIC CAPACITOR 50V0.22uF
C494	041 TUTES1HR47-7TF	ELECTROLYTIC CAPACITOR 50V0.47uF
C481,487,518,523,545,566,614,621	047 ECJ1VB1H182K	CERAMIC CAPACITOR CHIP 1800pF
C668,678,717,723	047 ECJ1VB1H222K	CERAMIC CAPACITOR CHIP 2200pF

SYMBOL	PARTS NO.	DESCRIPTION
C666,712	047 ECJ1VB1H223K	CERAMIC CAPACITOR CHIP 0.022uF
C415,417,418,681-684,706,707,715	047 ECJ1VC1H100D	CERAMIC CAPACITOR CHIP 10pF
C419-422,424,425,427-432	047 ECJ1VC1H101J	CERAMIC CAPACITOR CHIP 100pF
C640-645,664,677,714,720	047 ECJ1VC1H101J	CERAMIC CAPACITOR CHIP 100pF
C470,471,479,480	047 ECJ1VC1H220J	CERAMIC CAPACITOR CHIP 22pF
C457-462,633-638	047 ECJ1VC1H470J	CERAMIC CAPACITOR CHIP 47pF
C468,482,488,497,512,519,524,531,542	047 ECJ1VC1H561J	CERAMIC CAPACITOR CHIP 560pF
C549,567,570,598,615,622,631	047 ECJ1VC1H561J	CERAMIC CAPACITOR CHIP 560pF
C401-414,416,423,434-439,446,450-456	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C463,464,469,483,491-493,495,498-503	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C510,511,513,514,516,517,526-530,532	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C534-536,543,544,547,548,550-562,569	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C571,578-581,583,584,587,588,590-597	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C599,606-610,612,613,619,620,624-629	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C632,639,646,647,648,651-653,656	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C658-663,665,667,679,680,685,688-701	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
C708,709,711,716,721	047 ECJ1VF1H104Z	CERAMIC CAPACITOR CHIP 0.1uF
RM401-409	055 CN43-220	NETWORK RESISTOR CHIP 22
R417-420,425,426,474-479,496,527,529,540	055 ERJ3EKF1000V	RESISTOR CHIP 100
R542,546-548,560,565,568,571,574-576,579	055 ERJ3EKF1000V	RESISTOR CHIP 100
R588,614,623,632,634-639,657,660,668,688	055 ERJ3EKF1000V	RESISTOR CHIP 100
R707,711,716,717,729,730,732-735,739	055 ERJ3EKF1000V	RESISTOR CHIP 100
R430-435,481,502,505,506,509,510,513	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R538,541,543,599,600,603,604,607,608	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R611,690,693,694,697,698,701	055 ERJ3EKF1001V	RESISTOR CHIP 1K
R442-446,465-468,553,555,558,640,661	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R687,702	055 ERJ3EKF1002V	RESISTOR CHIP 10K
R453-458,480,497,501,503,504,507,508,511	055 ERJ3EKF1003V	RESISTOR CHIP 100K
R512,545,552,589,593,601,602,605,606,609	055 ERJ3EKF1003V	RESISTOR CHIP 100K
R610,633,644,691,692,695,696,699,700	055 ERJ3EKF1003V	RESISTOR CHIP 100K
R517,518	055 ERJ3EKF1004V	RESISTOR CHIP 1M
R401-410,421,422,473	055 ERJ3EKF10R0V	RESISTOR CHIP 10
R483,484,487,488,491,492	055 ERJ3EKF1202V	RESISTOR CHIP 12K
R670,671,674,675,678,679,709,718,736,742	055 ERJ3EKF1501V	RESISTOR CHIP 1.5K
R617,628	055 ERJ3EKF1502V	RESISTOR CHIP 15K
R498,514,523,525,549,559,561,564,572	055 ERJ3EKF1801V	RESISTOR CHIP 1.8K
R577,590,595,596,597,616,619,621,641	055 ERJ3EKF1801V	RESISTOR CHIP 1.8K
R645,651,662,666,681,703,706,708,721	055 ERJ3EKF1801V	RESISTOR CHIP 1.8K
R531	055 ERJ3EKF1802V	RESISTOR CHIP 18K
R447-449	055 ERJ3EKF2002V	RESISTOR CHIP 20K
R495,519,521,536,544,566,569,584,587	055 ERJ3EKF2202V	RESISTOR CHIP 22K
R612,631,649,663,685	055 ERJ3EKF2202V	RESISTOR CHIP 22K
R532-535,580-583,624-627,648,682-684	055 ERJ3EKF22R1V	RESISTOR CHIP 22.1
R723-727	055 ERJ3EKF2700V	RESISTOR CHIP 270
R499,520,522,537,550,567,570,585,591,613	055 ERJ3EKF3301V	RESISTOR CHIP 3.3K
R618,629,642,650,652,686,710,714,731,737	055 ERJ3EKF3301V	RESISTOR CHIP 3.3K
R615,665,689,712,722	055 ERJ3EKF3901V	RESISTOR CHIP 3.9K
R436-441	055 ERJ3EKF3902V	RESISTOR CHIP 39K
R427,469	055 ERJ3EKF4700V	RESISTOR CHIP 470
R459-464,482,485,486,489,490,493,494	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R516,528,530,539,563,586,594,630,647	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R653-656,658,659,669,672,673,676,677	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R680,704,705,719,720	055 ERJ3EKF4701V	RESISTOR CHIP 4.7K
R713,715,738,741	055 ERJ3EKF47R0V	RESISTOR CHIP 47
R500,515,524,526,551,562,573,578,592	055 ERJ3EKF6800V	RESISTOR CHIP 680
R598,620,622,643,646,664,667	055 ERJ3EKF6800V	RESISTOR CHIP 680
R423,424,428,429,450-452,470-472	055 ERJ3EKF75R0V	RESISTOR CHIP 75

SYMBOL	PARTS NO.	DESCRIPTION
R411-416,740	055 ERJ3RQF2R2V	RESISTOR CHIP 2.2
R728	055 ERJ3RQF4R7V	RESISTOR CHIP 4.7
SW401	061 C-4679A03	TACT SWITCH 5mm GRY HV061050GS
JAK401-406	065 HSJ1002-016020	3.5Φ MINI JACK
JAK417	066 C-4764A03	2P PIN JACK (Y.Y)
JAK415	066 C-4792A01	6P PIN JACK (W.R)
JAK416	066 C-4829A01	1P PIN JACK (YEL)
JAK409,410	066 C-4859A01	2P PIN JACK (BLK)
JAK407	066 SY010-8P/K	RJ45 TERMINAL SY010-8P
JAK411-414	066 TORX142L	OPTICAL MODULE TORX142L-F
JAK408	066 TOTX142L	OPTICAL TERMINAL TOTX142L-F
CP501	068 B11B-PH-KS	CONNECTOR WAFER 11P
CP606	068 B14B-PH-KS	CONNECTOR WAFER 14P
CP304,305	068 B15B-PH-KS	CONNECTOR WAFER 15P
CP201	068 B2B-PH-KS	CONNECTOR WAFER 2P
CP406,502,607	068 B6B-PH-KS	CONNECTOR WAFER 6P
CP603	068 B7B-PH-KS	CONNECTOR WAFER 7P
016 X-1496B01-03 PCB ASSY		
	501 X-1496	PCB ASSY (POWER)
LF101	021 TRL-356	LINE CHOKE COIL LF-2217 150uH
T101	022 T-1075N02	SUB TRANSFORMER
Q102,204	032 TC3708-ST	TRANSISTOR 2SC3708AA-ST
D216,217	034 KBL406	POWER DIODE 400V6A
D214,215,218	034 KBP206	POWER DIODE 200V6A
ZD101,102	034 MTZJ3.9B	ZENER DIODE 3.9V
D101-105,205,207,210,212,213,219-221	034 T1N4004-TB	DIODE 1N4004-F
ZD104	034 TRD12JST1	ZENER DIODE 12V
ZD103	034 TRD24JST1	ZENER DIODE 24V
ZD105,106	034 TRD5.1JST1	ZENER DIODE 5.1V
F102* for 230V	036 5ST1.6-R	FUSE 250V1.6A
F102* for 120V	036 5ST2-R	FUSE 250V2A
F101	036 5ST315-R	FUSE 250V314mA
F203-206	036 5ST4-R	FUSE 250V4A
C212,221	041 TUTES1C102-7TS	ELECTROLYTIC CAPACITOR 16V1000uF
C223	041 TUTES1E470-7TF	ELECTROLYTIC CAPACITOR 25V47uF
C238-243,253,254,255	041 TUTES1H010-7TF	ELECTROLYTIC CAPACITOR 50V1uF
C104,107	041 TUTES1H220-7TF	ELECTROLYTIC CAPACITOR 50V22uF
C112	041 TUTES1J471-7TS	ELECTROLYTIC CAPACITOR 63V470uF
C230-237	041 UTWE1E472-7	ELECTROLYTIC CAPACITOR 25V4700uF
C213,244-252	043 TC50V104	CERAMIC CAPACITOR 0.1uF
C101-103	044 3549472109	AC CAPACITOR 400V0.0047uF
C214-220,222,224,225,226,228,229	044 BQ014E0103J	M.P. CAPACITOR 100V0.01uF
R208	053 CR14-101J-A	CARBON RESISTOR 1/4W 100
R211,216	053 CR14-102J-A	CARBON RESISTOR 1/4W 1K
R217-220	053 CR14-103J-A	CARBON RESISTOR 1/4W 10K
R104,105	053 CR14-221J-A	CARBON RESISTOR 1/4W 220
R109,212,215	053 CR14-222J-A	CARBON RESISTOR 1/4W 2.2K
R102	053 CR14-470J-A	CARBON RESISTOR 1/4W 47
R213	053 CR14-472J-A	CARBON RESISTOR 1/4W 4.7K
R106-108	053 CR14-4R7J-A	CARBON RESISTOR 1/4W 4.7
RLY101	063 DG1U-12	RELAY DG12D1-O(M)-2
CT101	068 4428503746	CONNECTOR WAFER 3P
CP404	068 B14B-PH-KS	CONNECTOR WAFER 14P
CT103,104,CT100,CTA101,102,CTS101,102	068 B2P3-VH	CONNECTOR WAFER 2P
CT203	068 B2P-VH	CONNECTOR WAFER 2P
CP204	068 B4B-PH-KS	CONNECTOR WAFER 4P

SYMBOL	PARTS NO.	DESCRIPTION
CP302	068 B5B-PH-KS	CONNECTOR WAFER 5P
CP106	068 B7B-PH-KS	CONNECTOR WAFER 7P
CP211	068 B8B-EH	CONNECTOR WAFER 8P
CP604	068 B8B-PH-KS	CONNECTOR WAFER 8P
HEAT SINK ASSEMBLY		
	505 HSRSP-1069	HEAT SINKER ASSY (with 501 X-1496-01)
	017 WQ3-05B00	HEAT SINKER BOARD
IC202,203.205	031 KIA278R05PI	IC KIA278R05PI/P (REG.+5VDC)
IC204	031 NJM317F	IC (REGULATOR)
IC201	031 NJM7805FA	IC (REG. +5VDC) KIA7805AP
IC208,209	031 NJM7812FA	IC (REG. +12VDC) KIA7812AP
IC207	031 NJM7815FA	IC (REG. +15VDC) KIA7815AP
IC206	031 NJM7915FA	IC (REG. -15VDC) KIA7915PI
OTHERS		
	011 FP-613A-B	BLACK PANEL ASSY
	011 FP-613A-S	SILVER PANEL ASSY
	011 TH3-01B00	H/S PANEL
	012 C-4844B01	KNOB 10Φ (BLACK)
	012 C-4844B02	KNOB 10Φ (SILVER)
	012 C-4845B01	KNOB 33Φ (BLACK)
	012 C-4845B02	KNOB 33Φ (SILVER)
	012 RV4-09A00	PUSH BUTTON 14Φ (BLACK)
	012 RV4-09A01	PUSH BUTTON 14Φ (SILVER)
	012 TB3-18A00	TACT BUTTON 16 KEY (BLACK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SILVER)
	014 C-4723B05	UPPER COVER
	019 4TQF-17B	KNOB RING (RED) 33Φ
	019 4TQF-17B#2	KNOB RING (BLU) 33Φ
	019 4TSH-19#2	PLASTIC FOOT 50Φ BLACK
	019 C-4714A00	POWER KNOB RING 14Φ (BLACK)
	019 C-4714A01	POWER KNOB RING 14Φ (SILVER)
	022 T-1108N04	POWER TRANSFORMER
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLU) 1X5
	061 C-4838A00	ROCKER SWITCH SR1N6BB
	069 C-4629A01	AC 2P INLET 6102.3100 (WIRING)
	072 C-4621A03	AC CORD SET (SJT AWG16) for USA
	072 C-4622A02	AC CORD SET for AUSTRALIA
	072 C-4623A02	AC CORD SET for UK
	072 C-4624A03	AC CORD SET for EUROPE
	072 C-4738A01	PIN PLUG CORD AU
	072 C-4786A00	COMPUTER I/O CABLE (4-P)
	081 WK3-05A00	INSIDE CARTON
	081 WK3-06A00	SHIPPING CARTON
	081 ZE-204	ETHAFOAM MOULDING
	082 OMRSP-1069	OWNER'S MANUAL
	092 RR-1060	REMOTE UNIT

Addendum List for Black and Silver

RSP-1069

SYMBOL	PARTS	DESCRIPTION
①	011 FP-613A-B	BLACK PANEL ASS Y
②	011 FP-613A-S	SILVER PANEL ASS Y
③	011 TH3-01B00	H/S PANEL H109
	012 C-4844B01	KNOB 10F (BLK)
	012 C-4844B02	KNOB 10F (SLV)
	012 C-4845B01	KNOB 33F NO LINE (BLK)
	012 C-4845B02	KNOB 33F NO LINE (SLV)
	012 RV4-09A00	PUSH BUTTON 14F (BLK)
	012 RV4-09A01	PUSH BUTTON 14F (SLV)
	012 TB3-18A00	TACT BUTTON 16 KEY (BLK)
	012 TB3-18A01	TACT BUTTON 16 KEY (SLV)
	034 SEL1124R	LED (RED) 1X5
	034 SEL1E24W	LED (BLU) 1X5

Panel Assy is included:

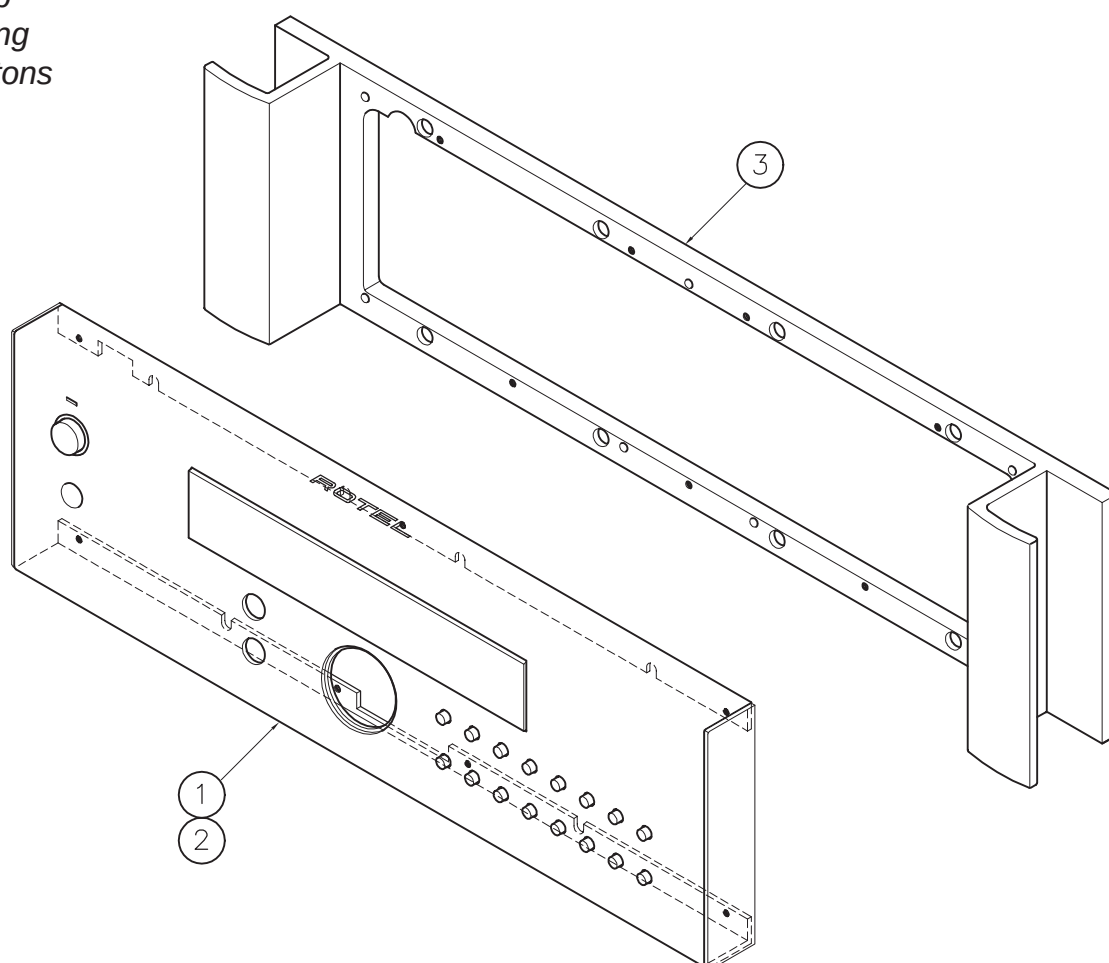
Panel Window

Side Cap

Knob Ring

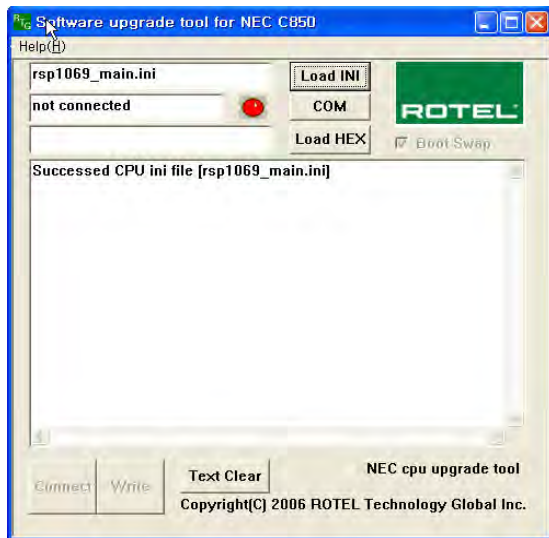
Tact buttons

LED

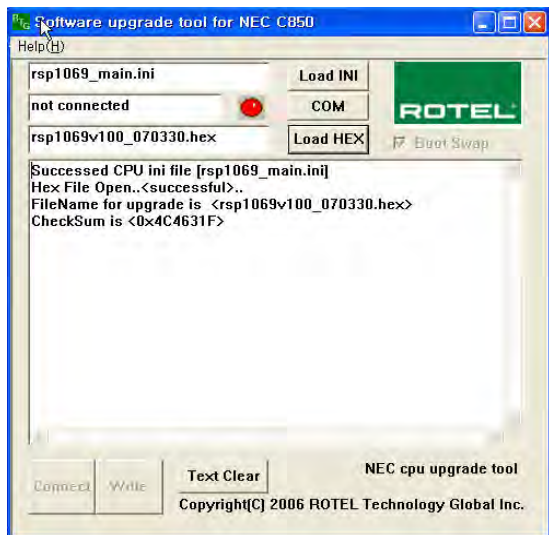


RSP-1069 Main Upgrade Software Procedure

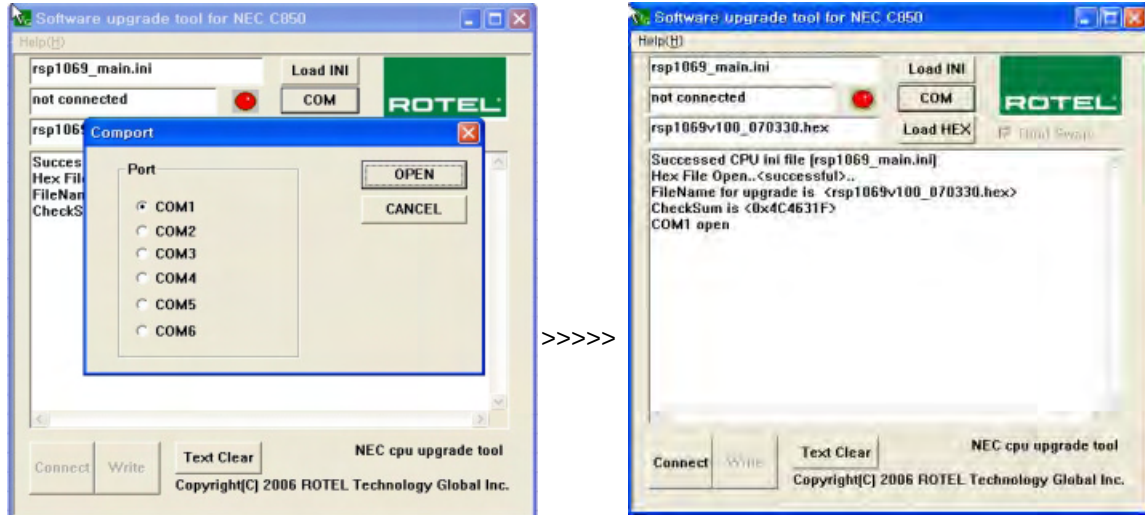
1. Execute nec flash upgrade.exe then will be created new folder as "C:\Program Files\nec upgrade".
2. Connect upgrade cable between RSP-1069 and PC
3. Set upgrade environment on OSD Menu
"OSD Main Menu-> Other -> Main Upgrade -> yes " press Enter.
4. Copy Object file(.HEX) and INI file (main_rsp1069.ini) file, and save it in temporary same folder.
5. Execute nec_flash_upgrade.exe from Program list.
6. Load INI file by pushing "Load INI" button.
load main_rsp1069.ini for RSP1069 main micom.



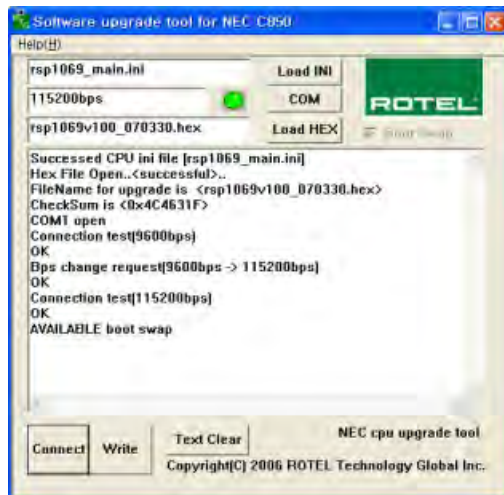
7. Load HEX file by pushing "Load HEX" button.
load rsp1069v100_070330.hex for RSP1069 main micom.



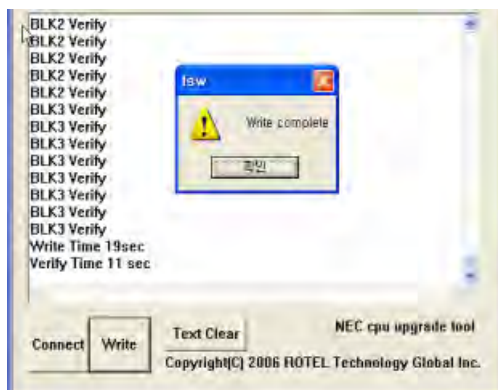
8. After pushing "COM" button placed at "HEX" button upper, and choosing COM1~COM4.
(connecting PC's COM1 ~COM4 and cable).



9. Push "Connect" button placed at program's below left side, and BaudRate placed next to "COM" button will be displayed if the above process is OK.



10. Click "Write" button placed next to "Connect" button .

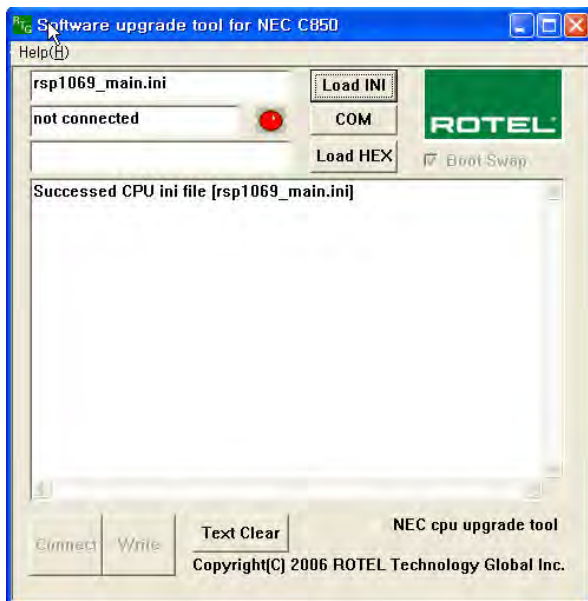


11. After finishing "Write", then the total writing time will be displayed.

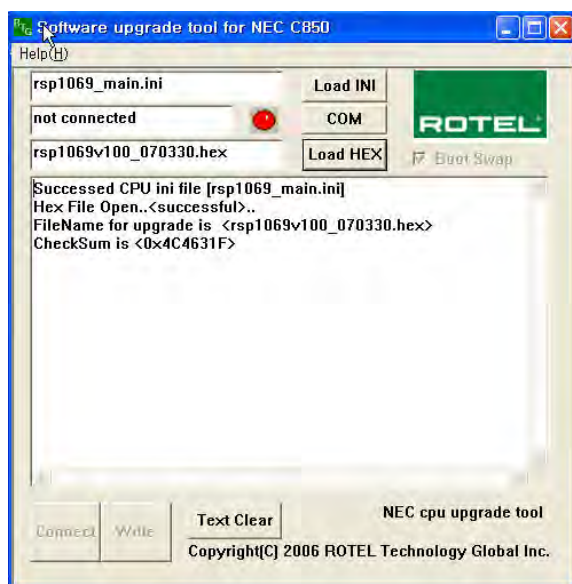
12. AC Power "OFF" and "ON" again to save.

RSP-1069 Scalar (VIDEO) Upgrade Software Procedure

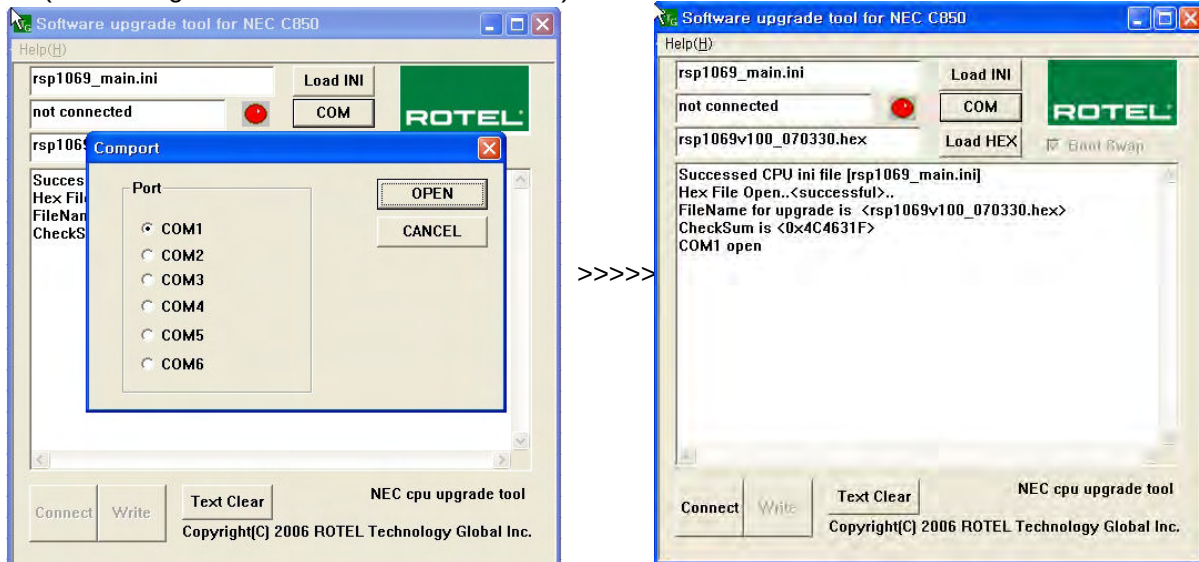
1. Execute nec flash upgrade.exe then will be created new folder as "C:\Program Files\nec upgrade".
2. Connect upgrade cable between RSP-1069 and PC.
3. Set upgrade environment on OSD Menu
"OSD Main Menu-> VIDEO/HDMI -> Video Upgrade -> yes " press Enter.
4. Copy Object file(.HEX) and INI file (video_scaler.ini) file, and save it in temporary same folder.
5. Execute nec_flash_upgrade.exe from Program list.
6. Load INI file by pushing "Load INI" button.
load video_scaler.ini for video scaler CPU of the RSP-1069.



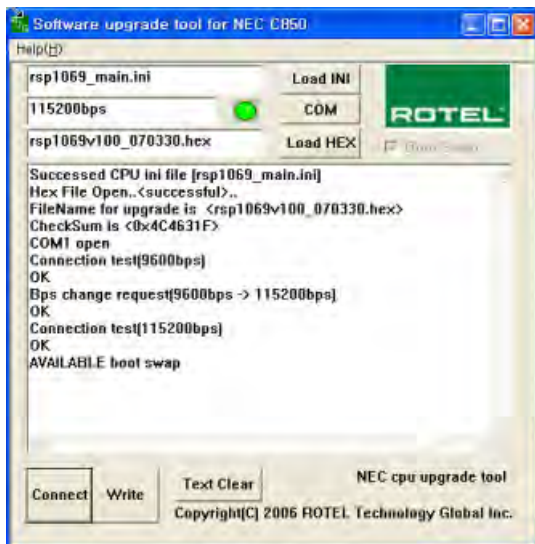
7. Load HEX file by pushing "Load HEX" button.
load scaler1058vxxx.hex for video scaler CPU of the RSP-1069.



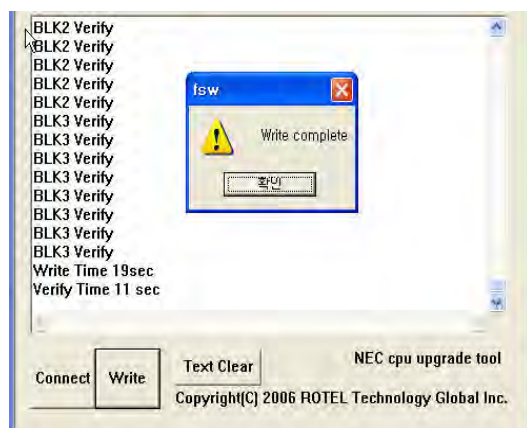
8. After pushing "COM" button placed at "HEX" button upper, and choosing COM1~COM4.
(connecting PC's COM1 ~COM4 and cable).



9. Push "Connect" button placed at program's below left side, and BaudRate placed next to "COM" button will be displayed if the above process is OK.



10. Click "Write" button placed next to "Connect" button .



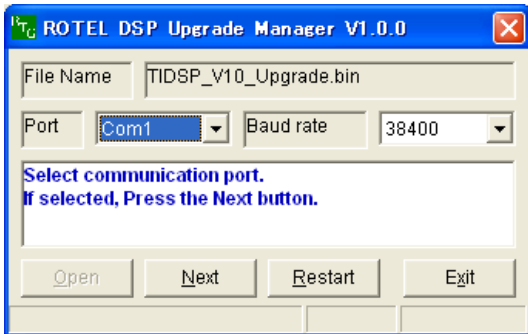
- 11 After finishing "Write", then the total writing time will be displayed.

- 12 AC Power "OFF" and "ON" again to save.

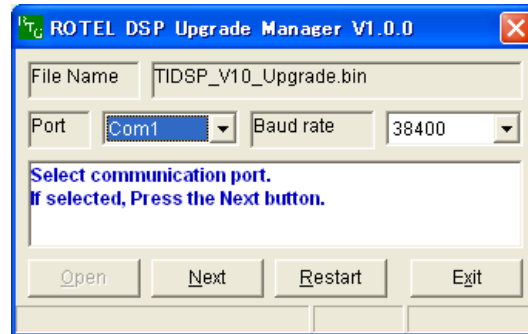
RSP-1069 DSP Upgrade Manager V1.0.0 Procedure

Install the “DSP Upgrade Manager_V100” program which is provided by ROTEL in the computer. And connect RS232 Cable with DB-9 to RJ45 terminations.

1. Click “Open File” -> select Upgrade file

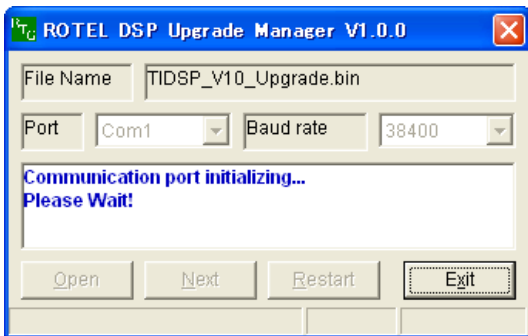


2. Confirm Port and Baud Rate setting. Then, click “Next” button. (ref: RSP-1069 Baud Rate is 38400)

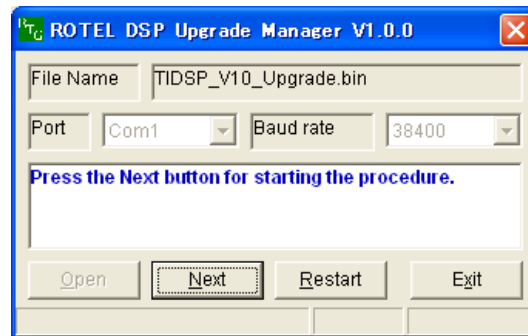


3. Communication port initializing

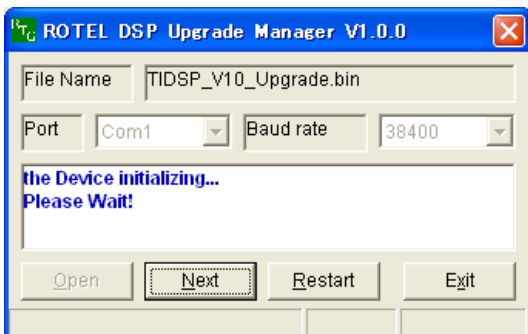
Wait. Then click “Next” button.



4. Press the “Next” button for starting the procedure.



5. Click “Next” button.



6. The device's current version is displayed. Click “Next” button.

7. The sector is erasing. Wait a moment.

8. The sector is erased. The flash is writing automatically. Wait a while.

9. If the writing and checksum is OK, wait a next procedure.

10. Completed all procedure. Power off and on again on main switch of rear. Click “Exit” button to finish the “Upgrade Manager” program.

11. Finish.

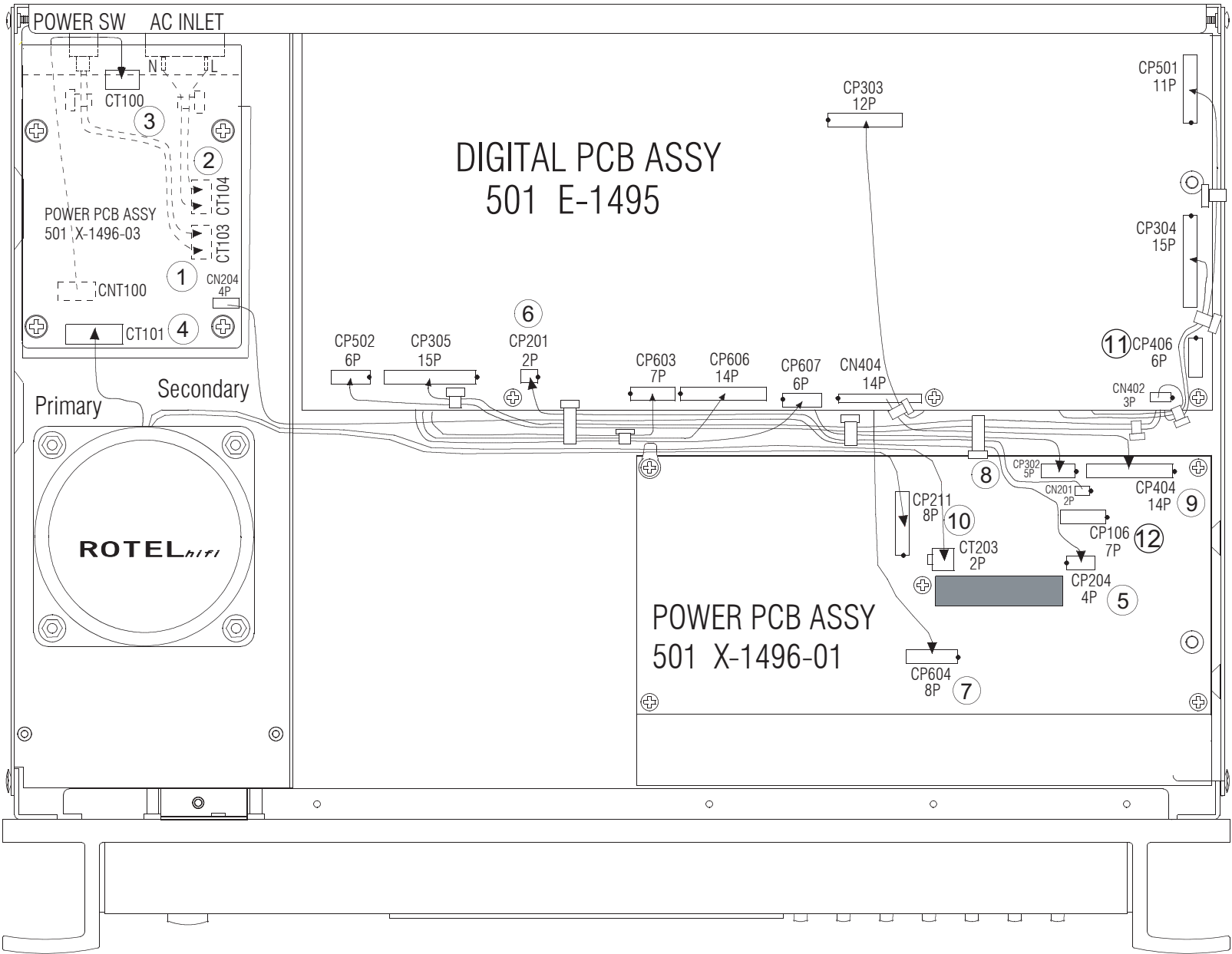
<MEMO 1>

Light-up ALL FL segments to check:

RSP-1069 will get FL full illumination from "Direct" and "Always ON" setting on Power Option menu.

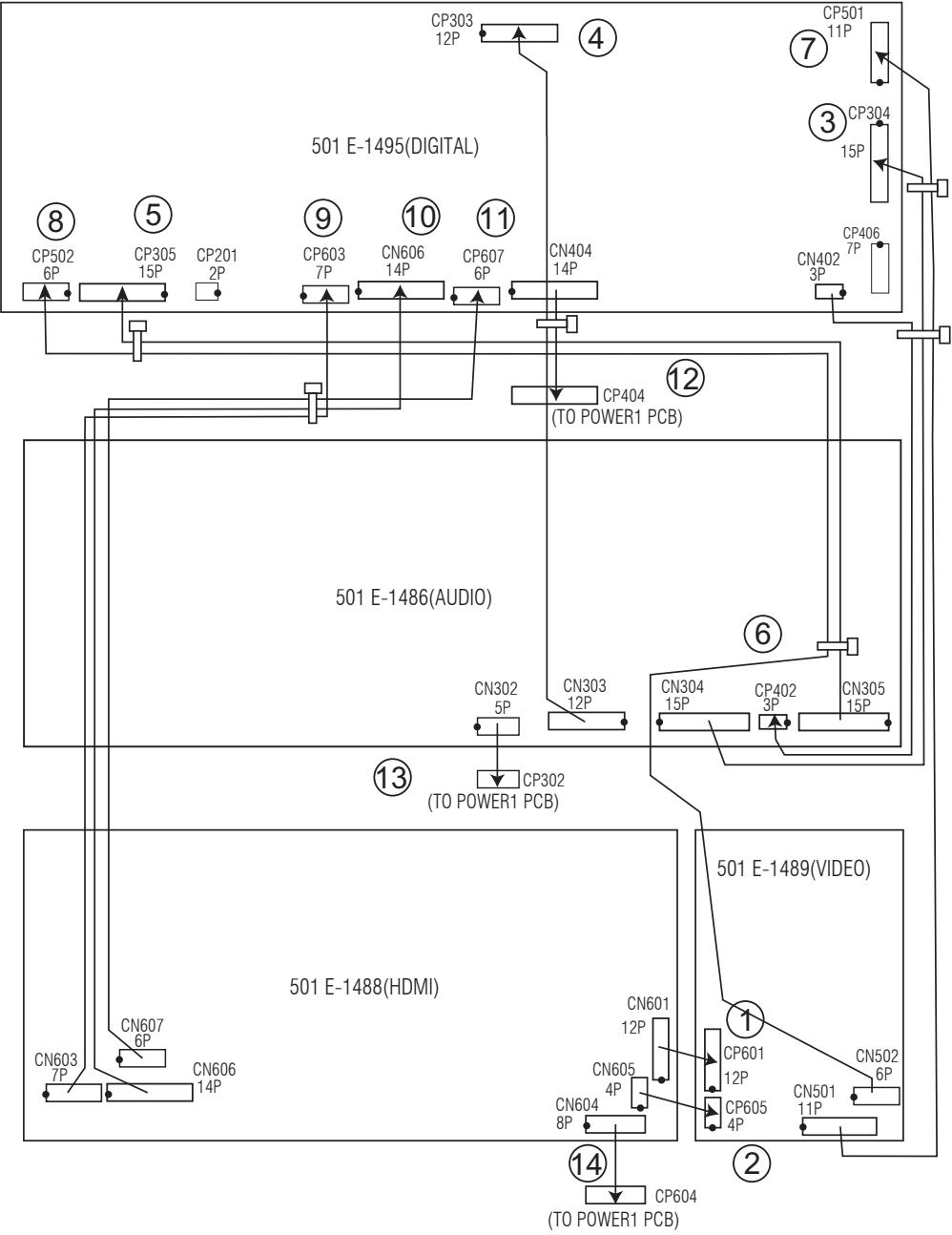
Press "2CH" and "MUTE" of front panel while turn on the rear panel master power switch. When release the lighting, press STANDBY switch or master power switch.

<MEMO 2>



	PCB	POWER 1	POWER3	DIGITAL
①	POWER SW	→CT103		
②	AC INLET	→CT104		
③	POWER (501 X-1496-02) CNT100	→CT100		
④	POWER TRANS Primary	→CT101		
⑤	POWER (501 X-1496-03) CN204	→CP204		
⑥	POWER (501 X-1496-01) CN201		→CP201	
⑦	HDMI (501 E-1488) CN604	→CP604		
⑧	AUDIO (501 E-1486) CN302	→CP302		
⑨	DIGITAL (501 E-1495) CN404	→CP404		
⑩	POWER TRANS Secondary	→CP211,CT203		
⑪	CN102 FRONT PCB (501 X1494-01)		→CP406	
⑫	CN106 FRONT PCB (501 X1494-01)	→CP106		

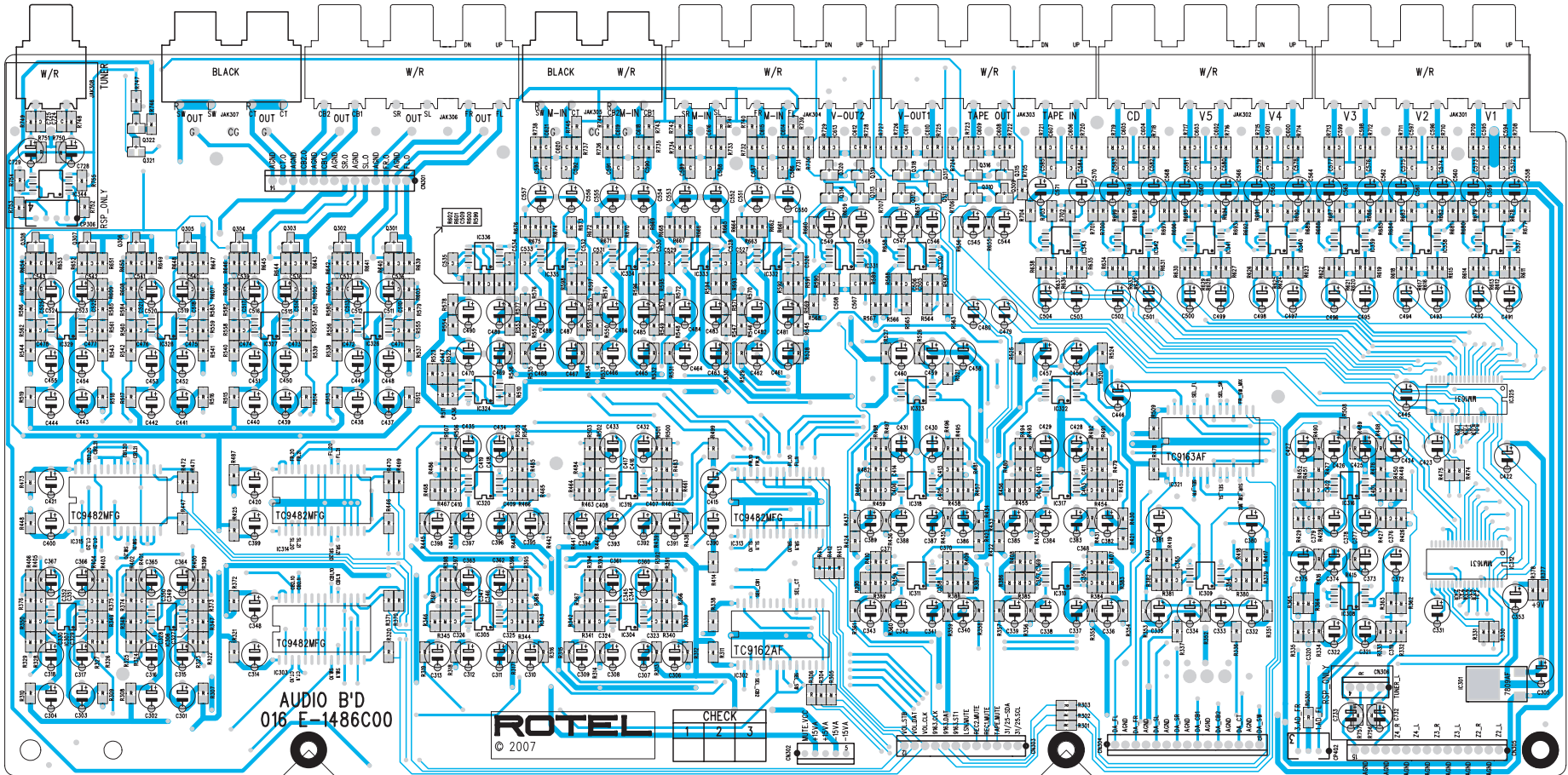
REAR ASSY



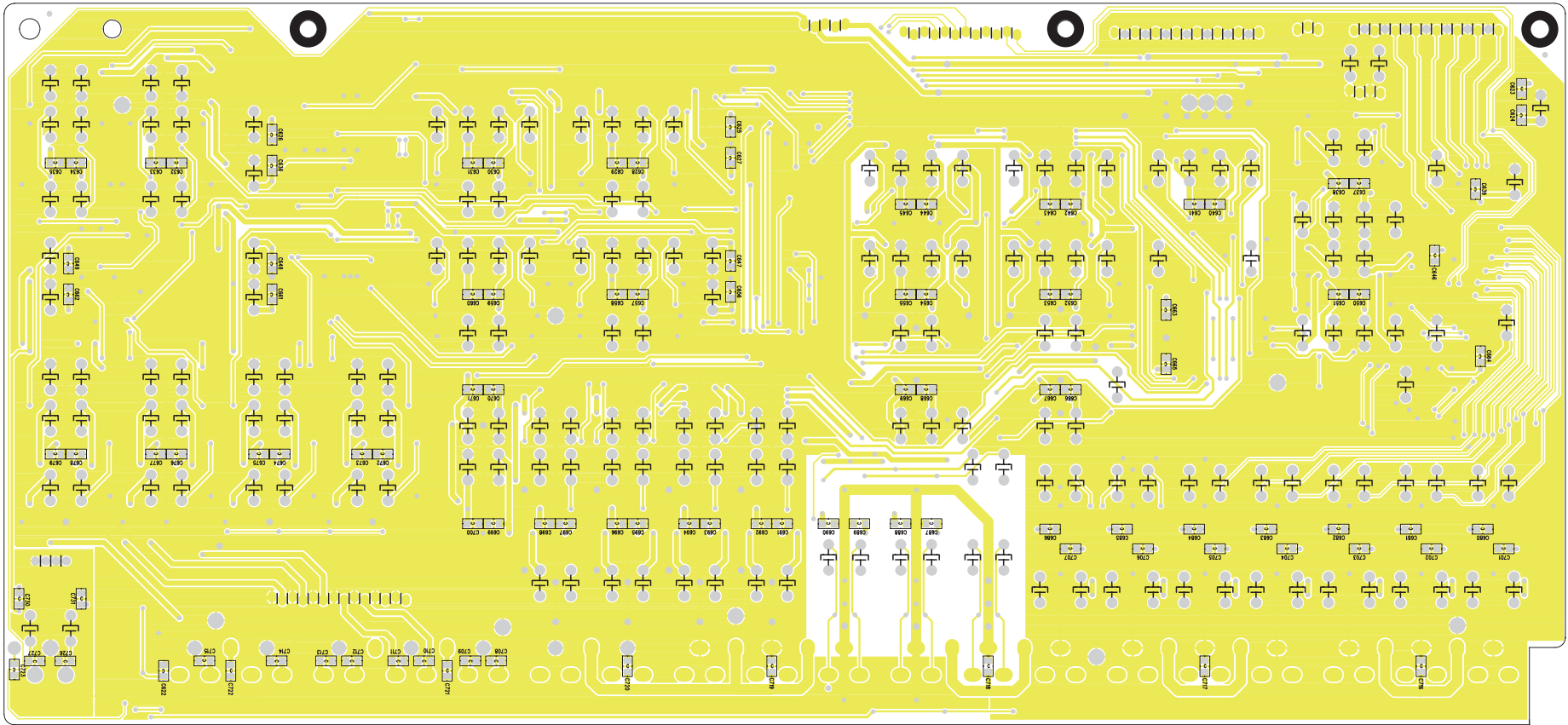
	PCB	AUDIO	DIGITAL	VIDEO INPUT	POWER1 PCB
①	HDMI (501 E-1488) CN601		→CP601		
②	HDMI (501 E-1488) CN605		→CP605		
③	AUDIO (501 E-1486) CN304	→CP304			
④	AUDIO (501 E-1486) CN303	→CP303			
⑤	AUDIO (501 E-1486) CN305	→CP305			
⑥	DIGITAL (501 E-1495) CN402	→CP402			
⑦	VIDEO INPUT (501 E-1489) CN501	→CP501			
⑧	VIDEO INPUT (501 E-1489) CN502	→CP502			
⑨	HDMI (501 E-1488) CN603	→CP603			
⑩	HDMI (501 E-1488) CN606	→CP606			
⑪	HDMI (501 E-1488) CN607	→CP607			
⑫	DIGITAL (501 E-1495) CN404			→CP404	
⑬	AUDIO (501 E-1486) CN302			→CP302	
⑭	HDMI (501 E-1488) CN604			→CP604	

Audio PCB 016 E-1486C00

Top View

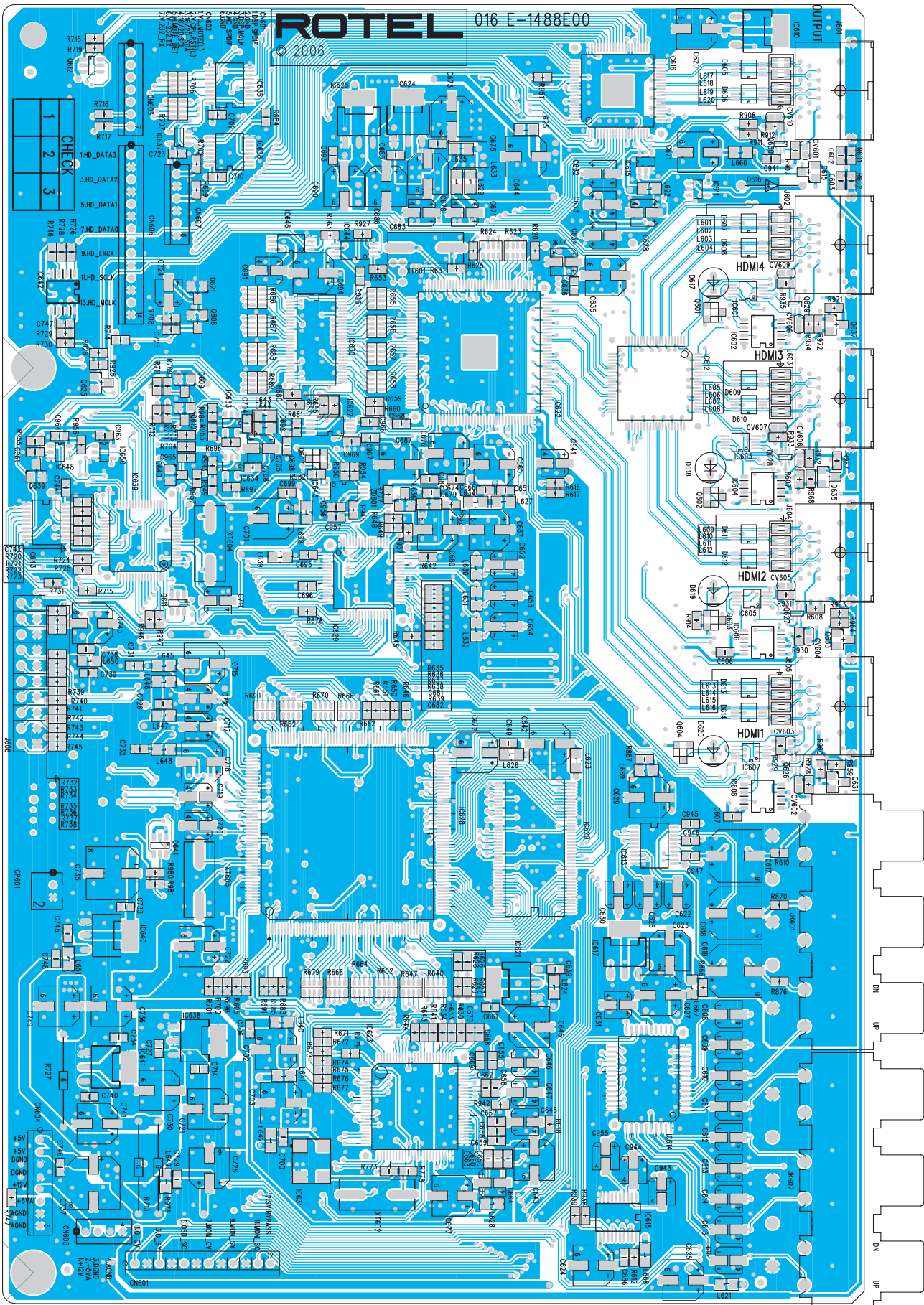


Bottom View

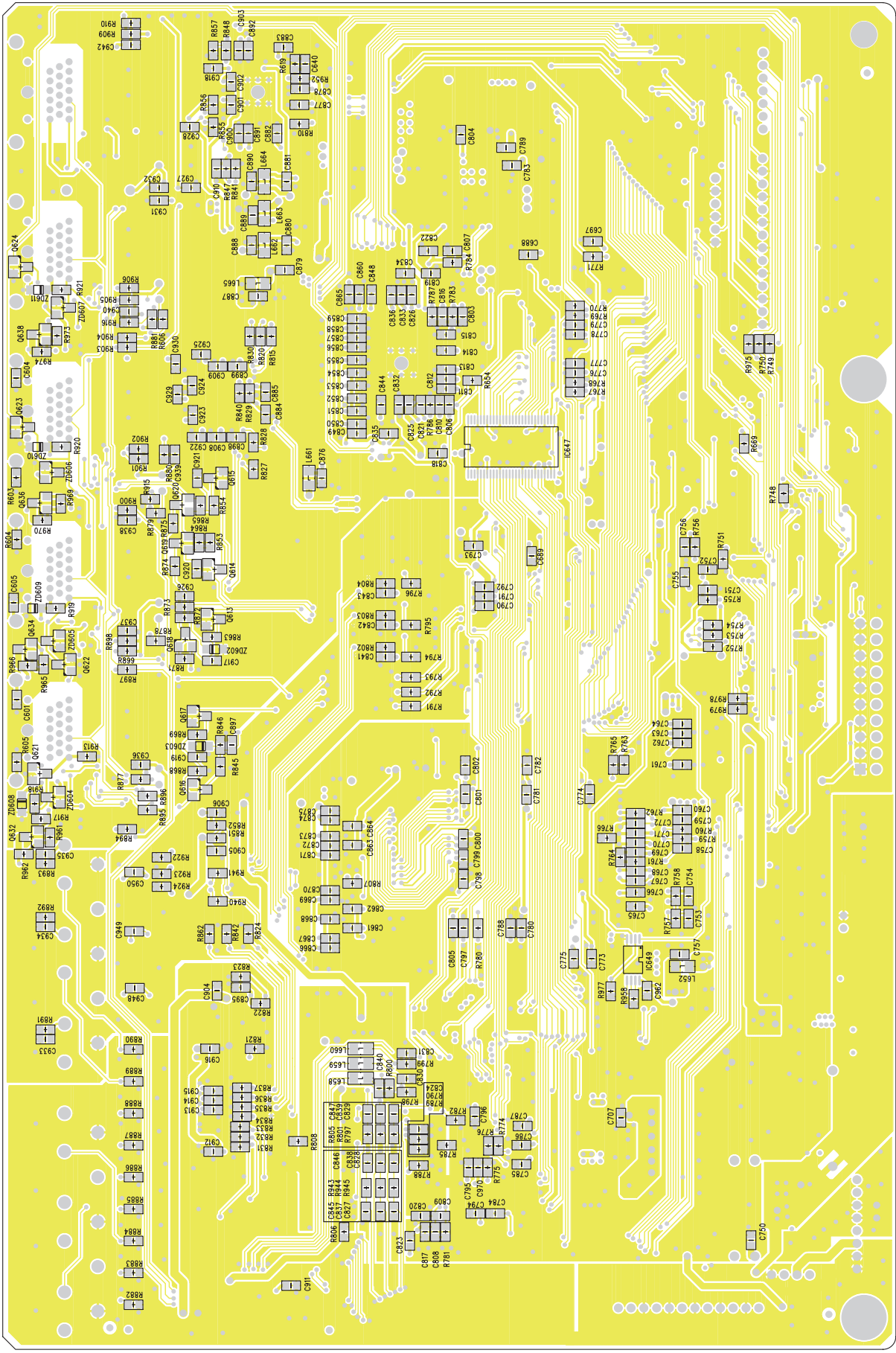


HDMI PCB 016 E-1488E00

Top View

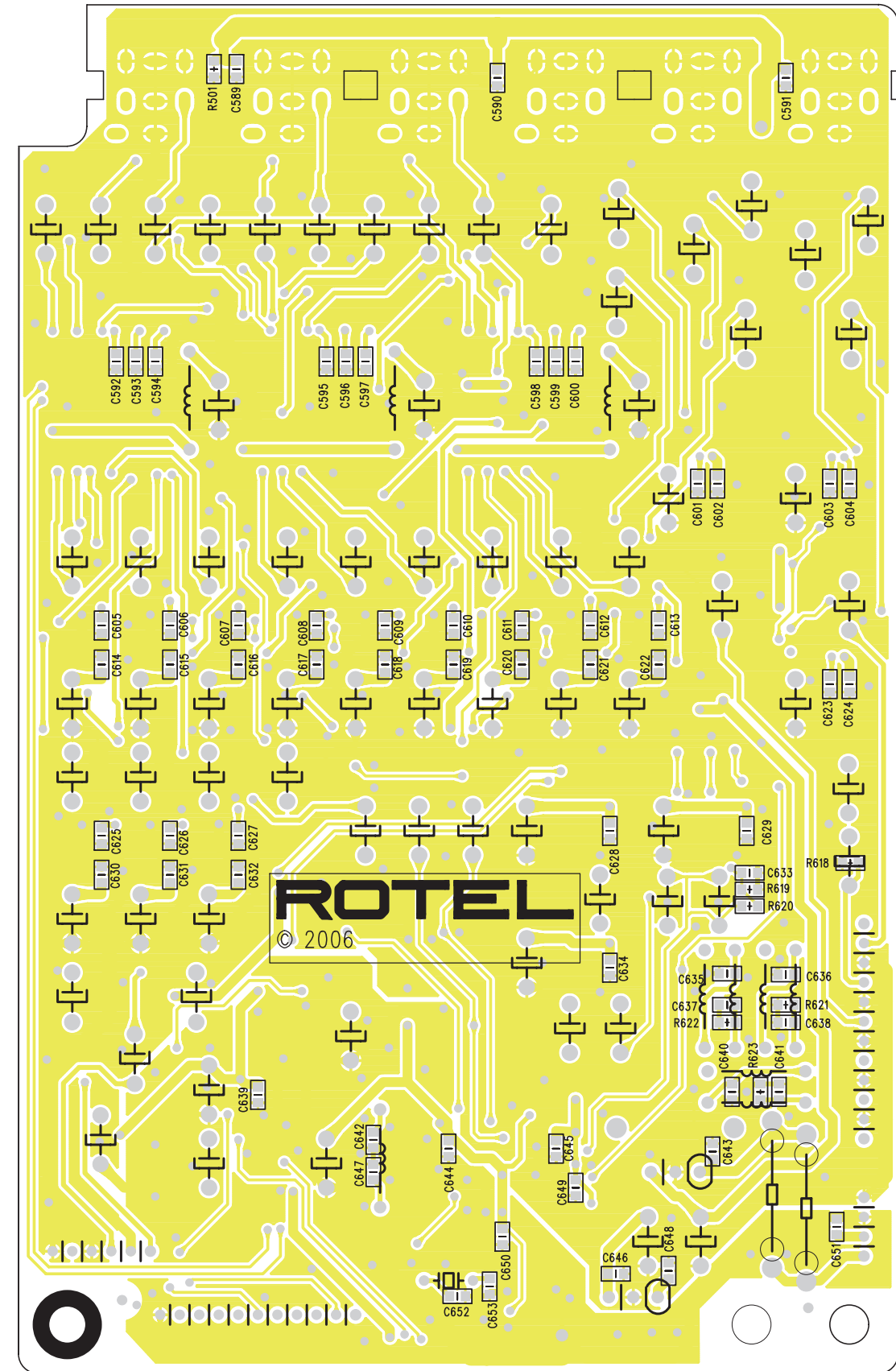


Bottom View



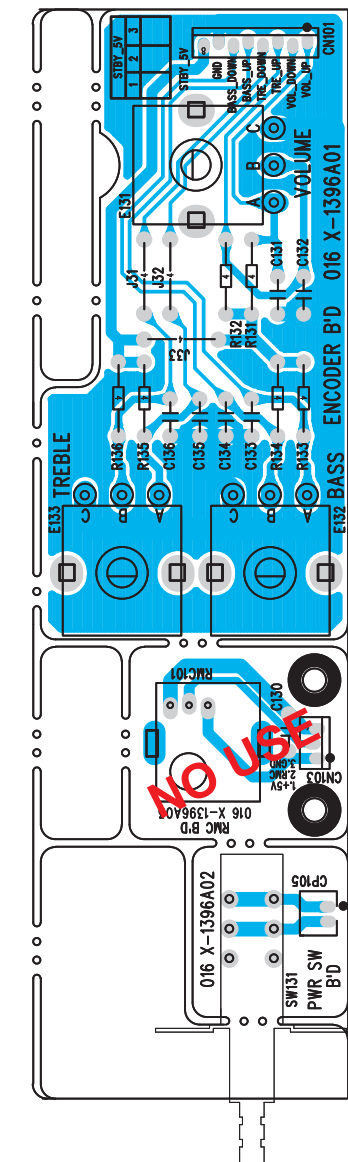
PCB Assembly 3/6

Bottom View



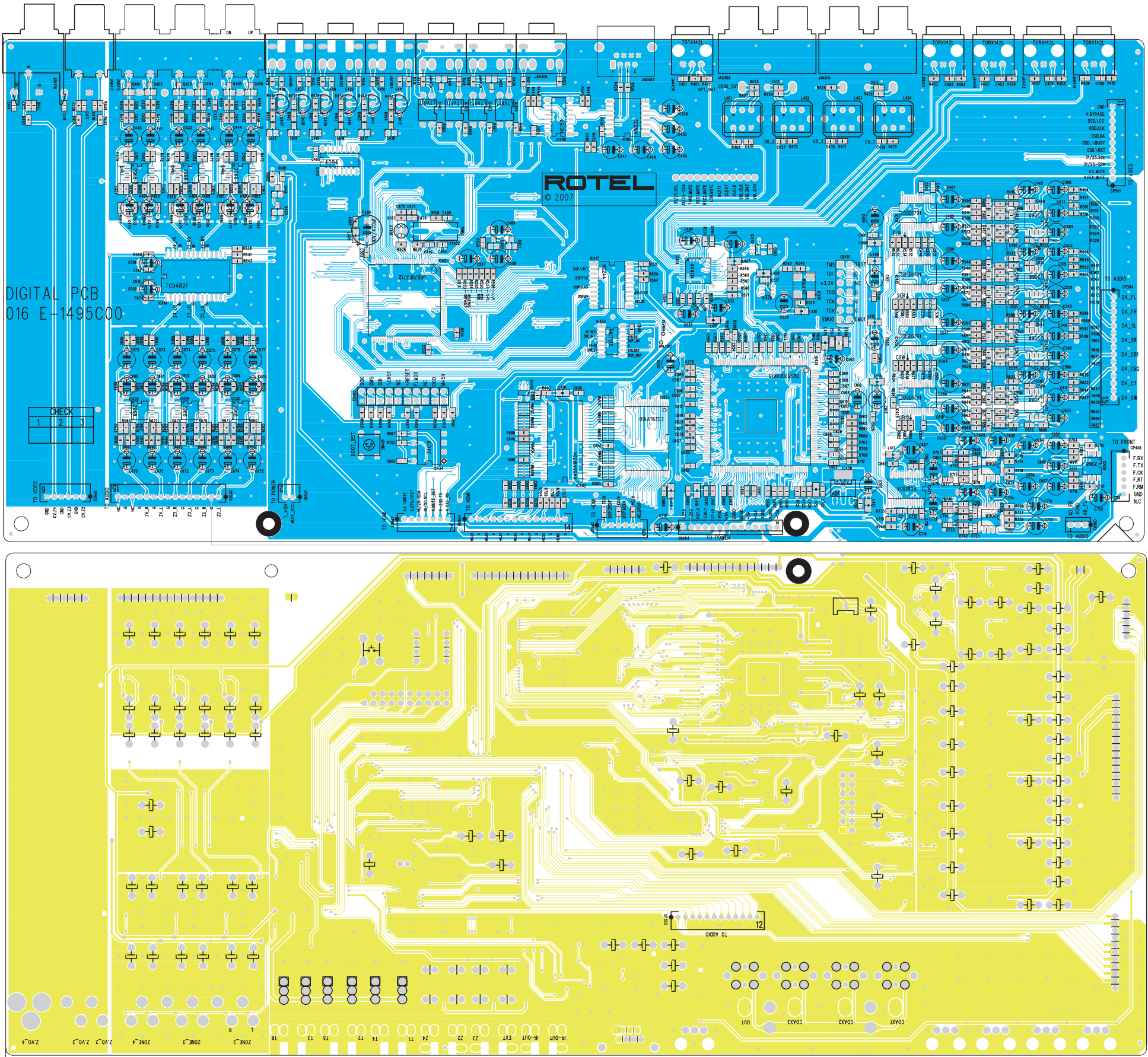
Encoder PCB 016 X-1396A01-03

Top View

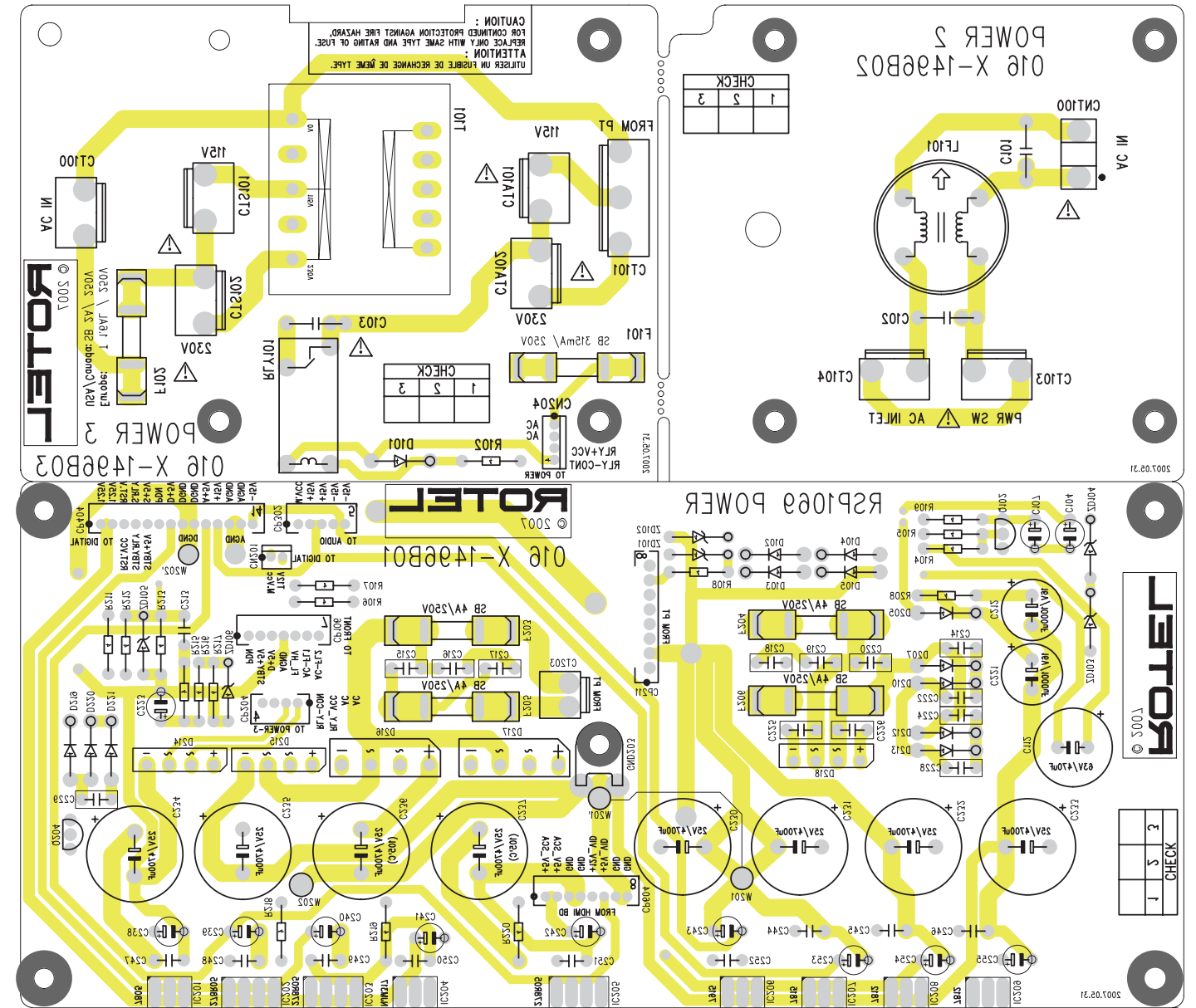


25

Digital PCB 016 E-1495C00

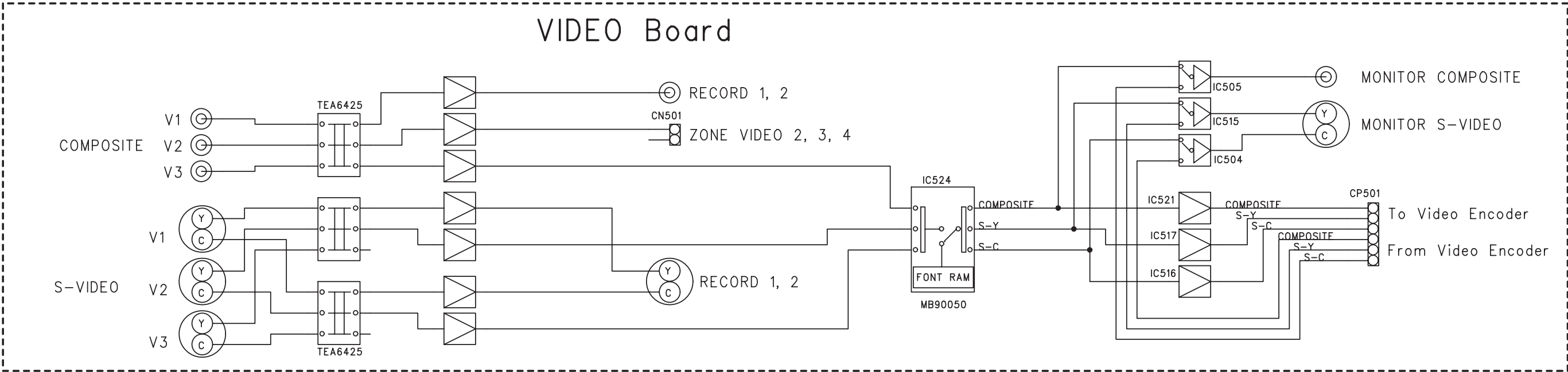


Top View

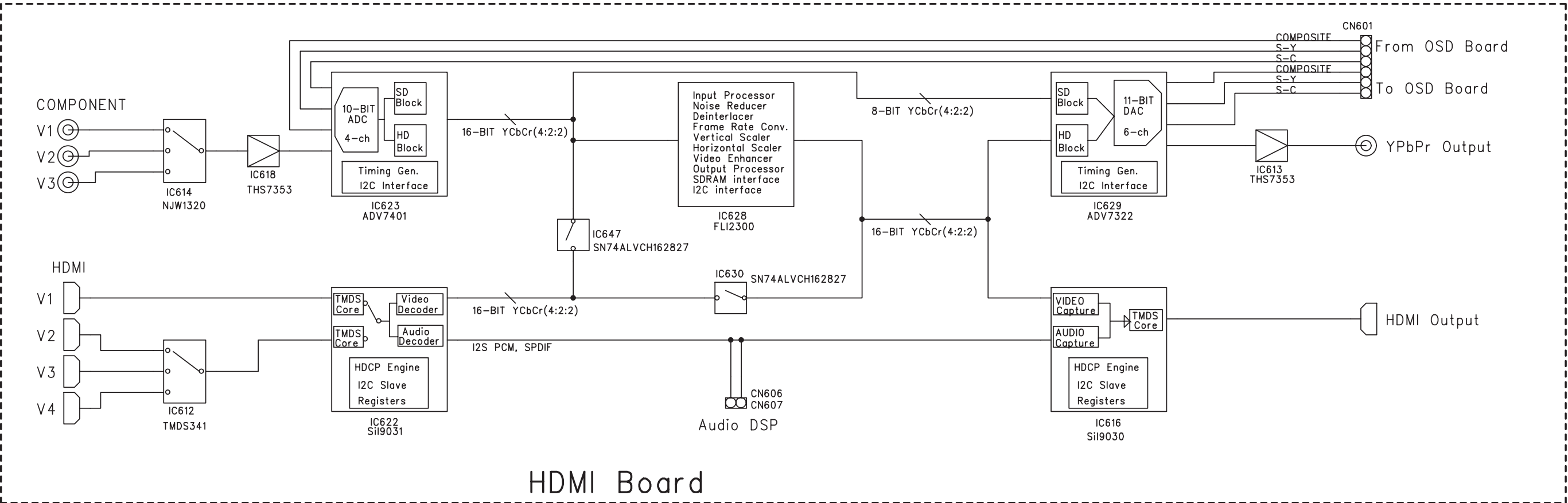




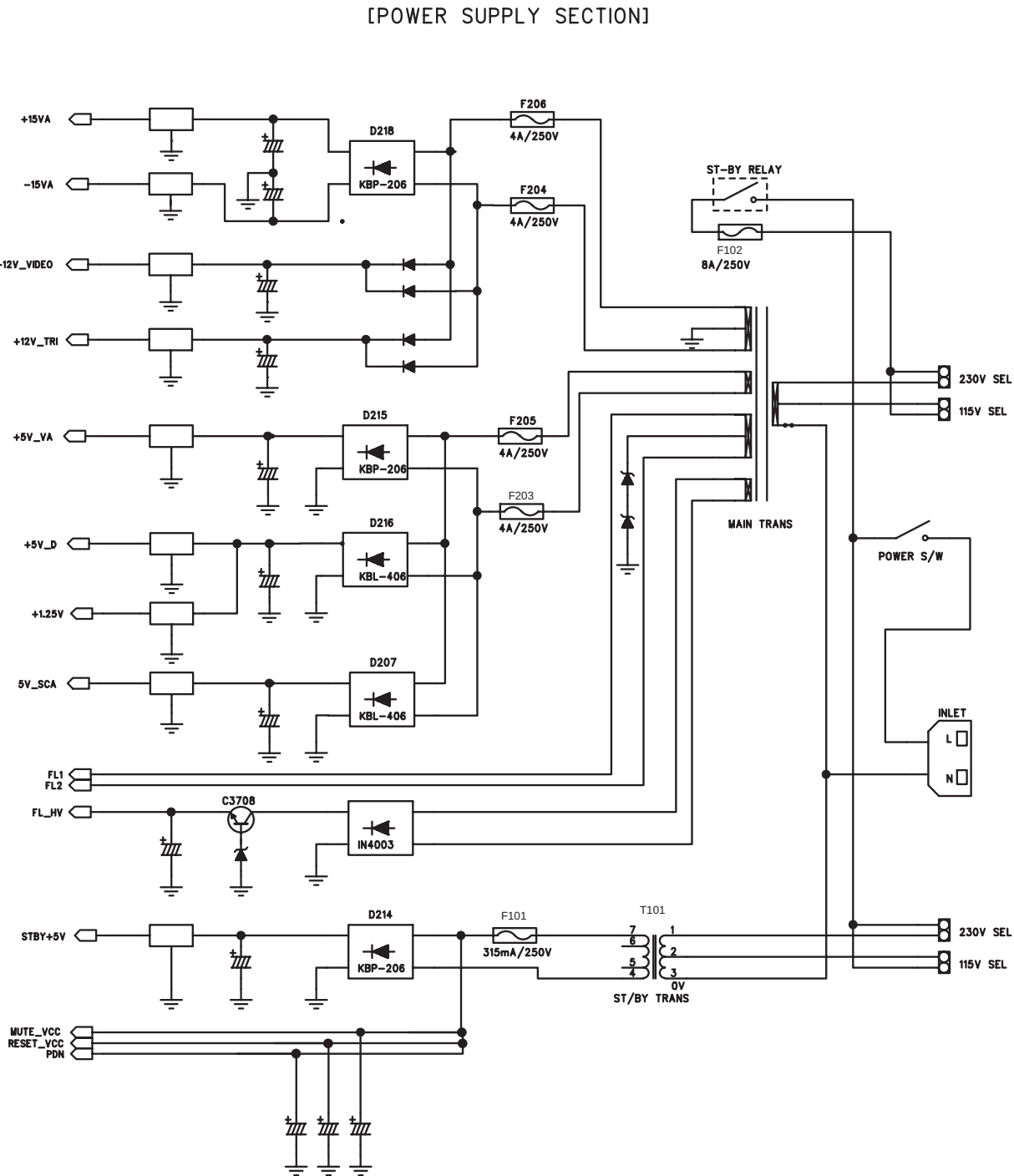
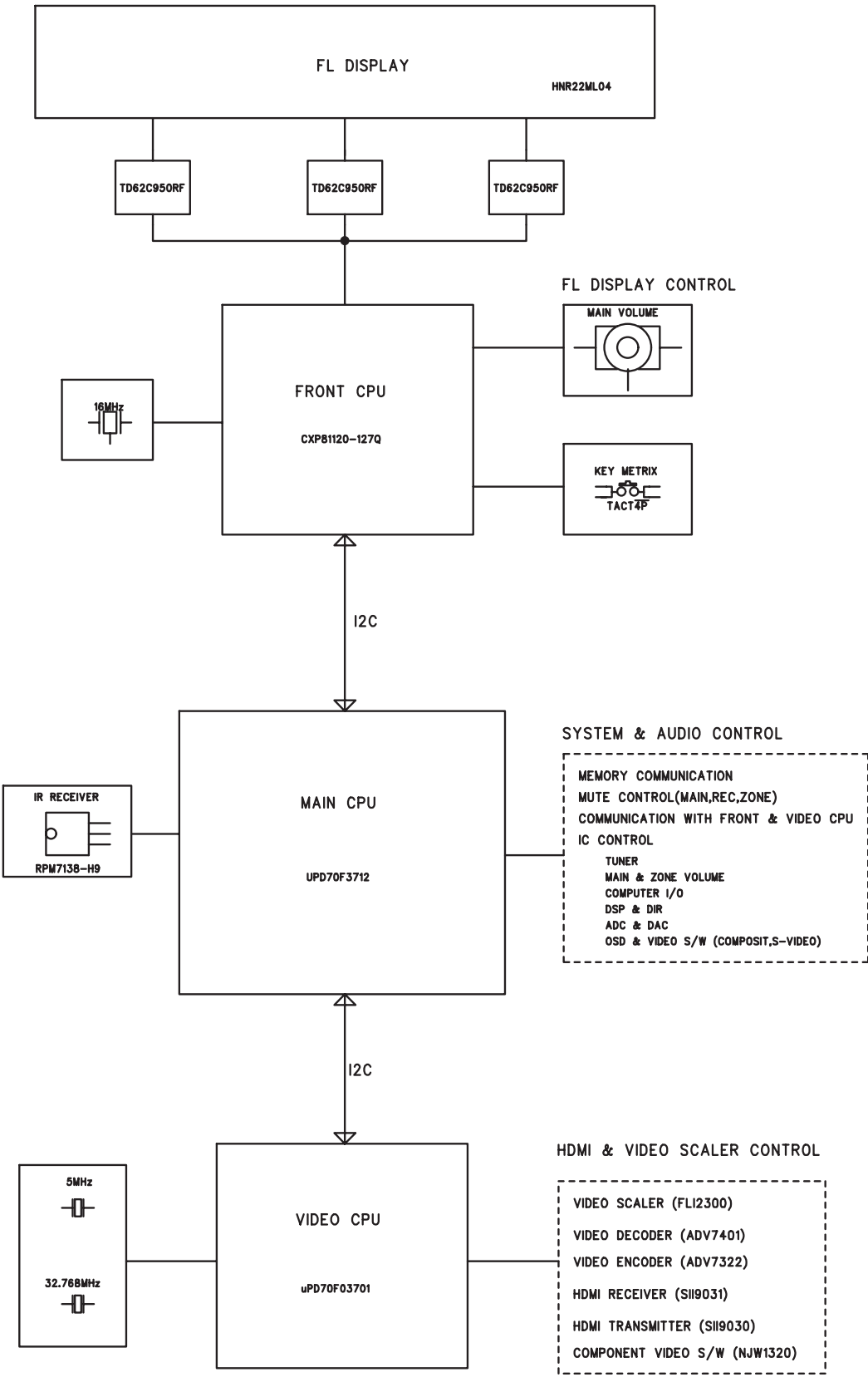
Video PCB 016 E1489B00



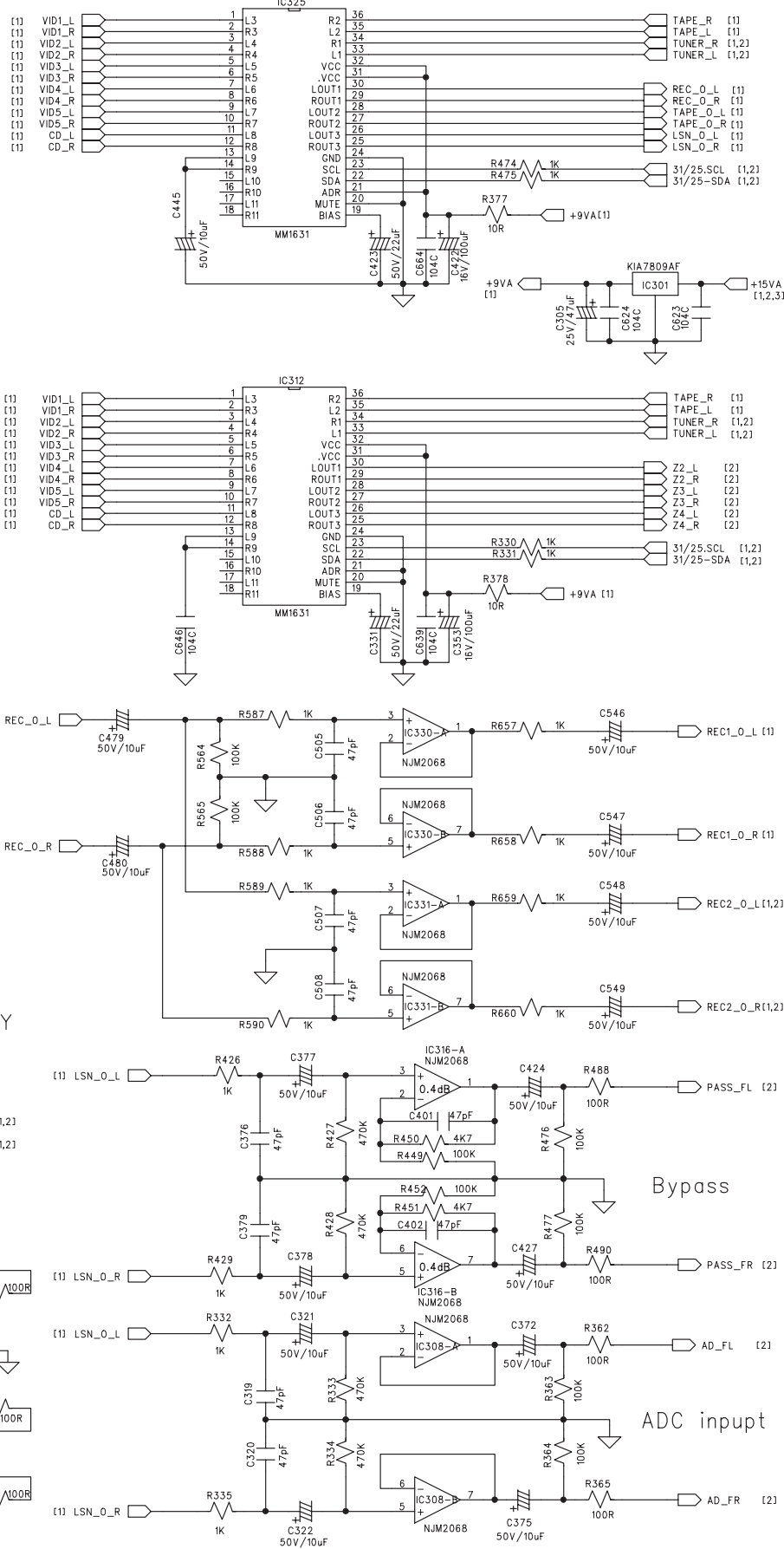
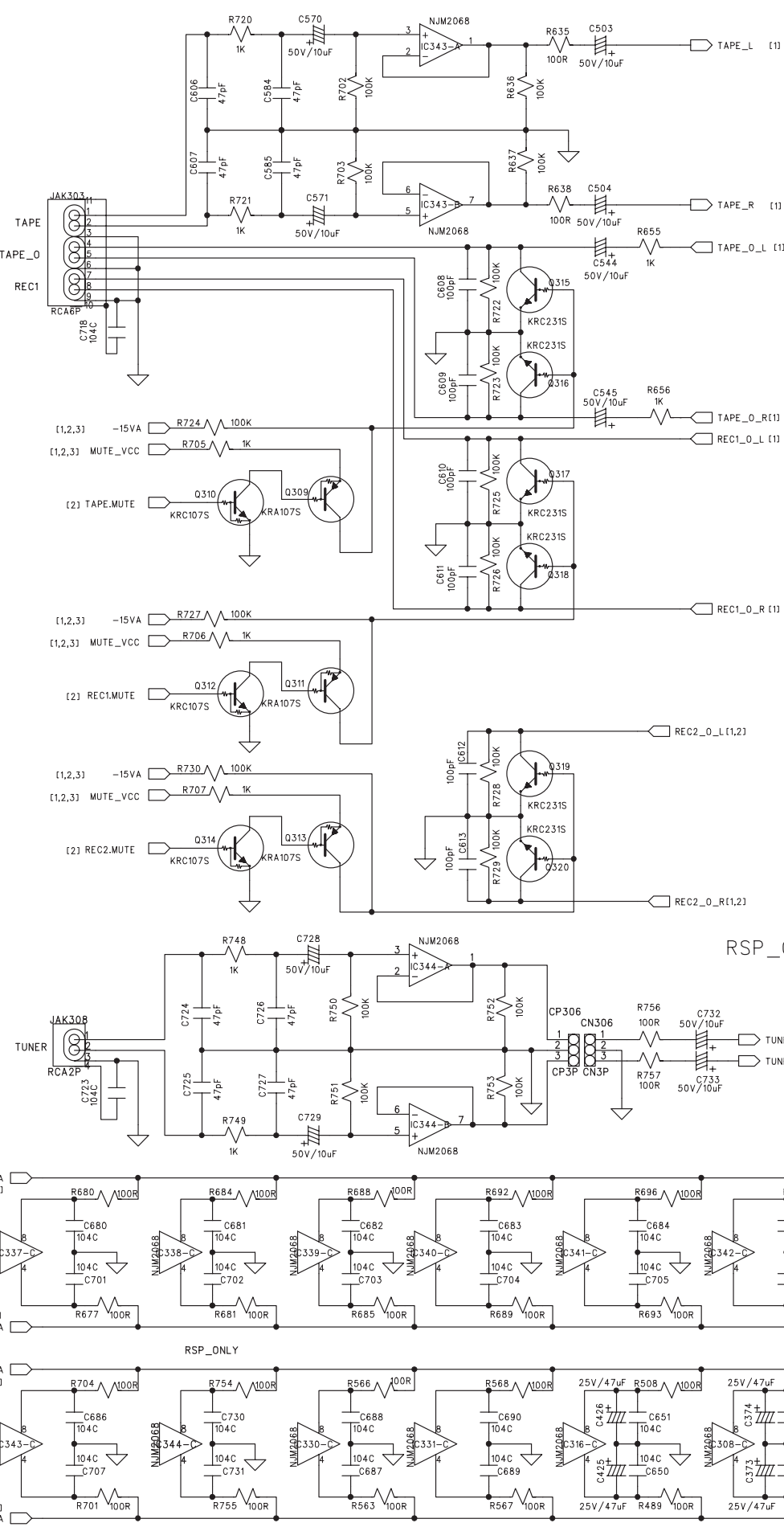
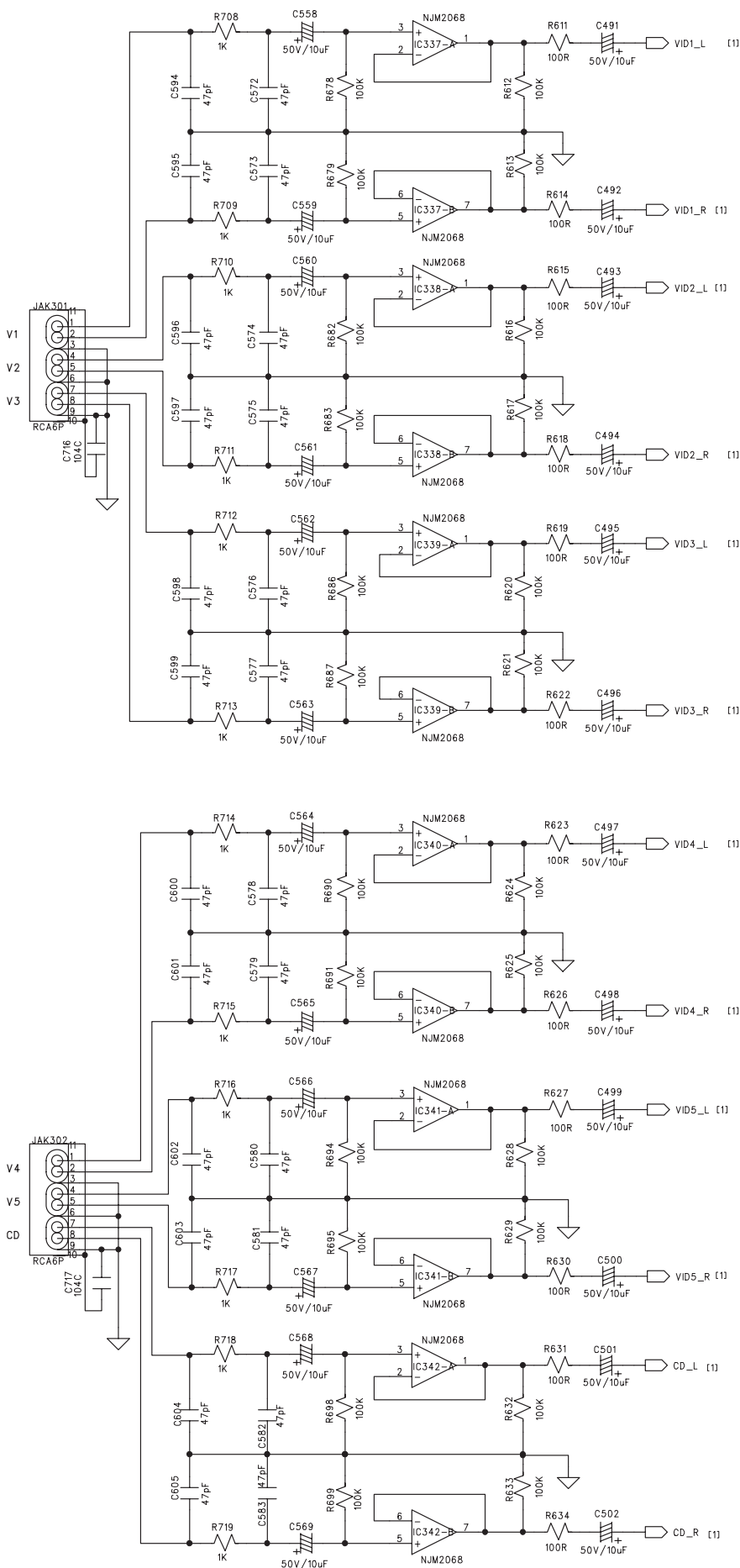
HDMI PCB 016 E1488E00



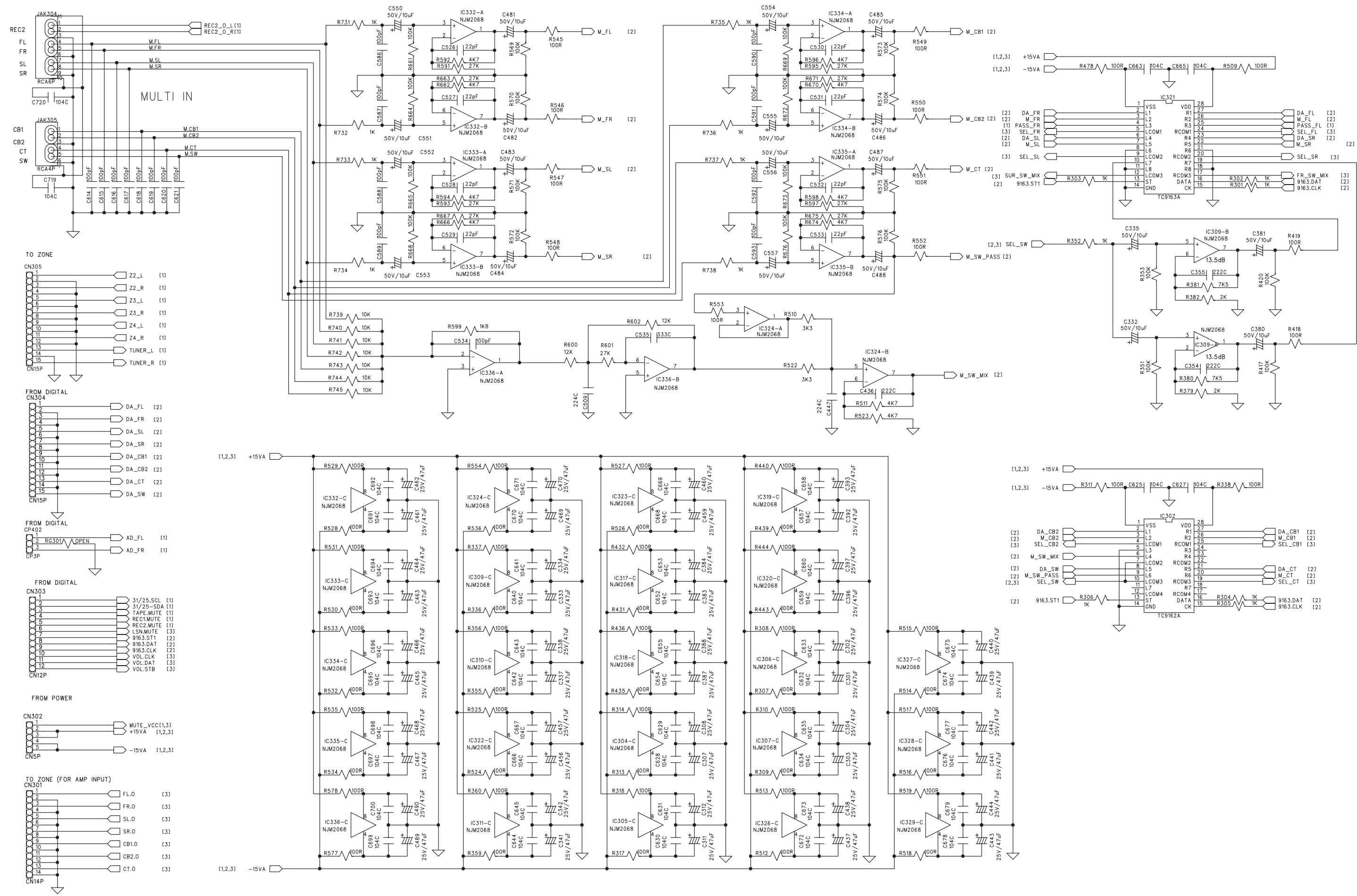
POWER & CONTROL PART



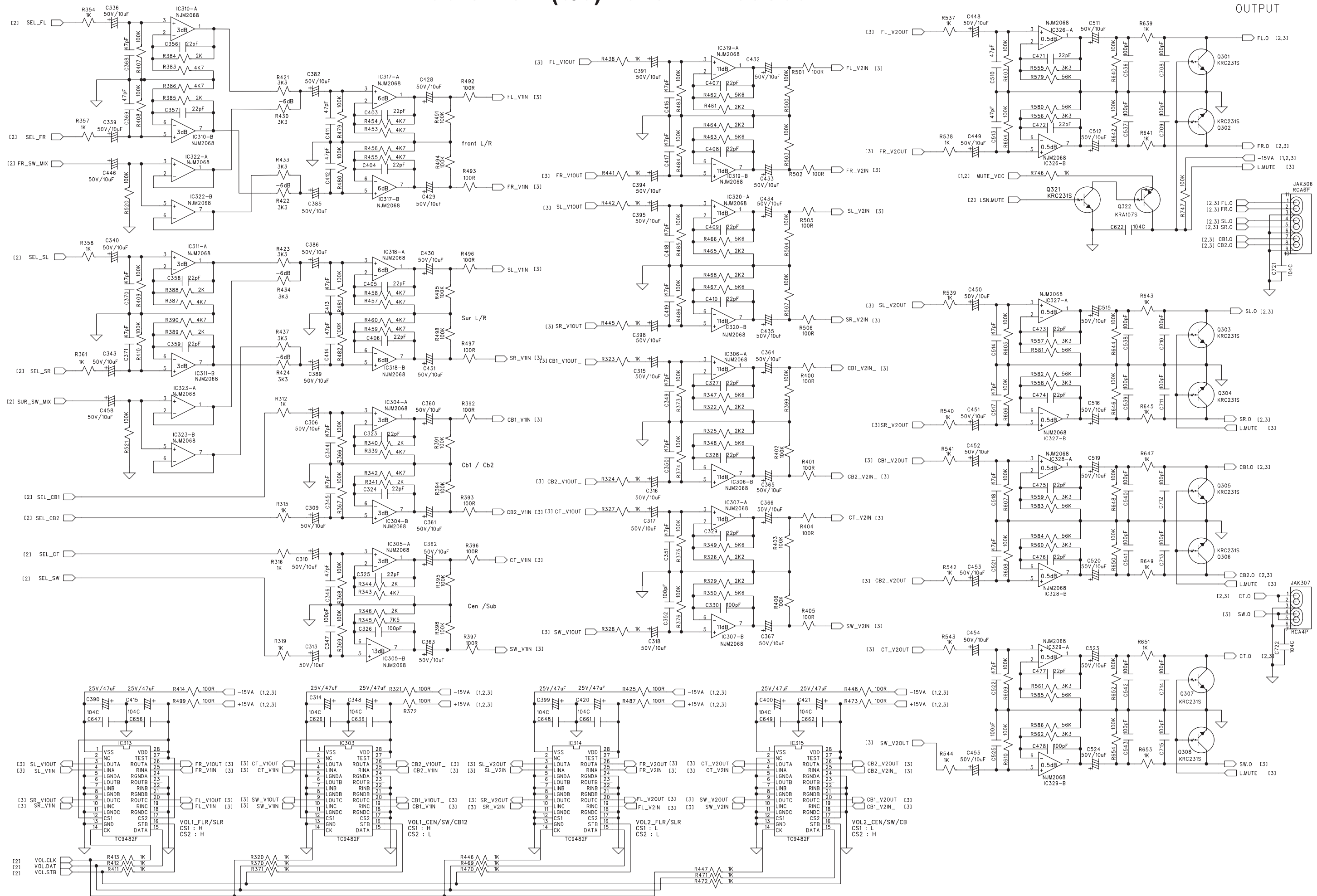
Audio PCB (1/3) 016 E-1486C00



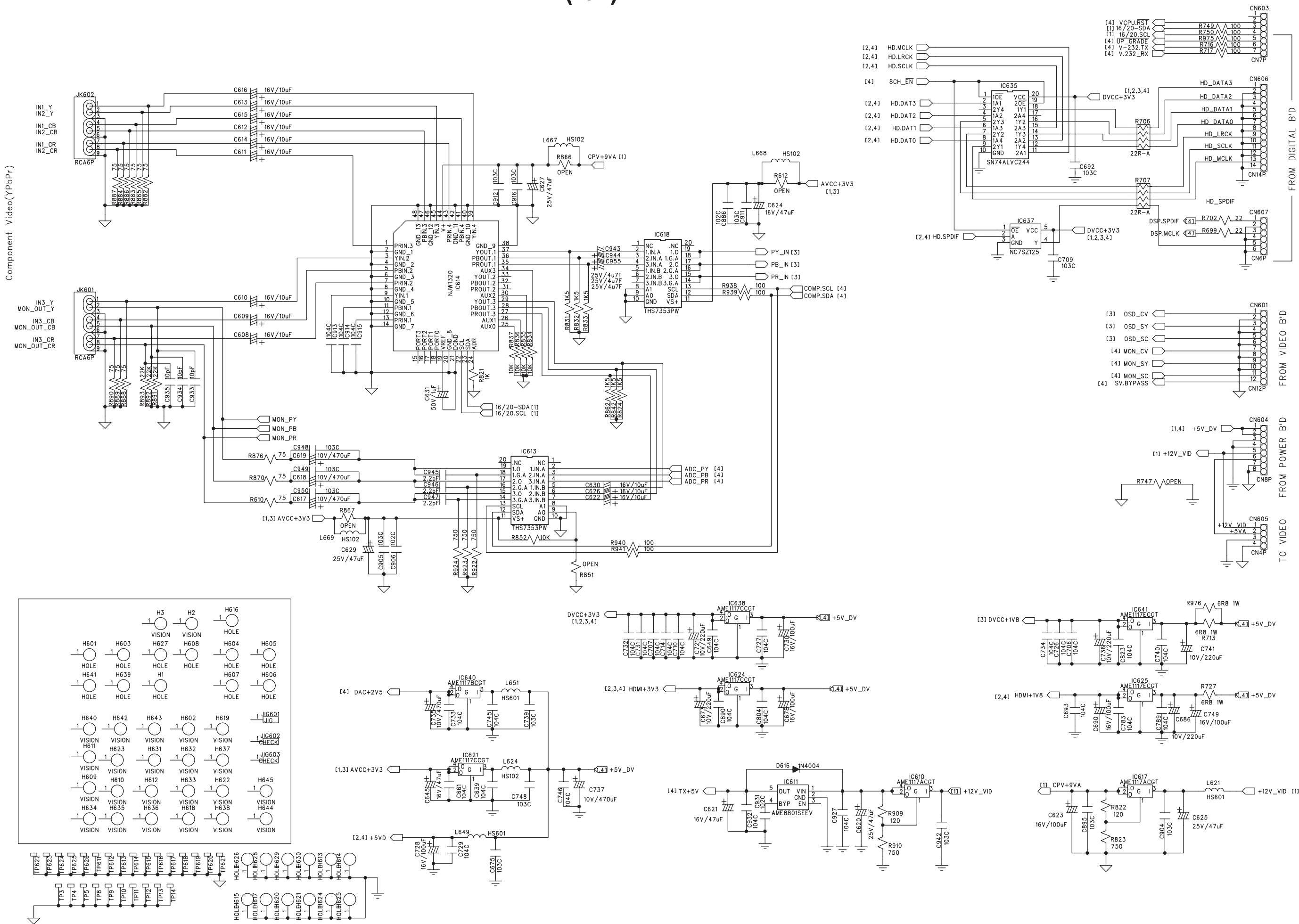
Audio PCB (2/3) 016 E-1486C00



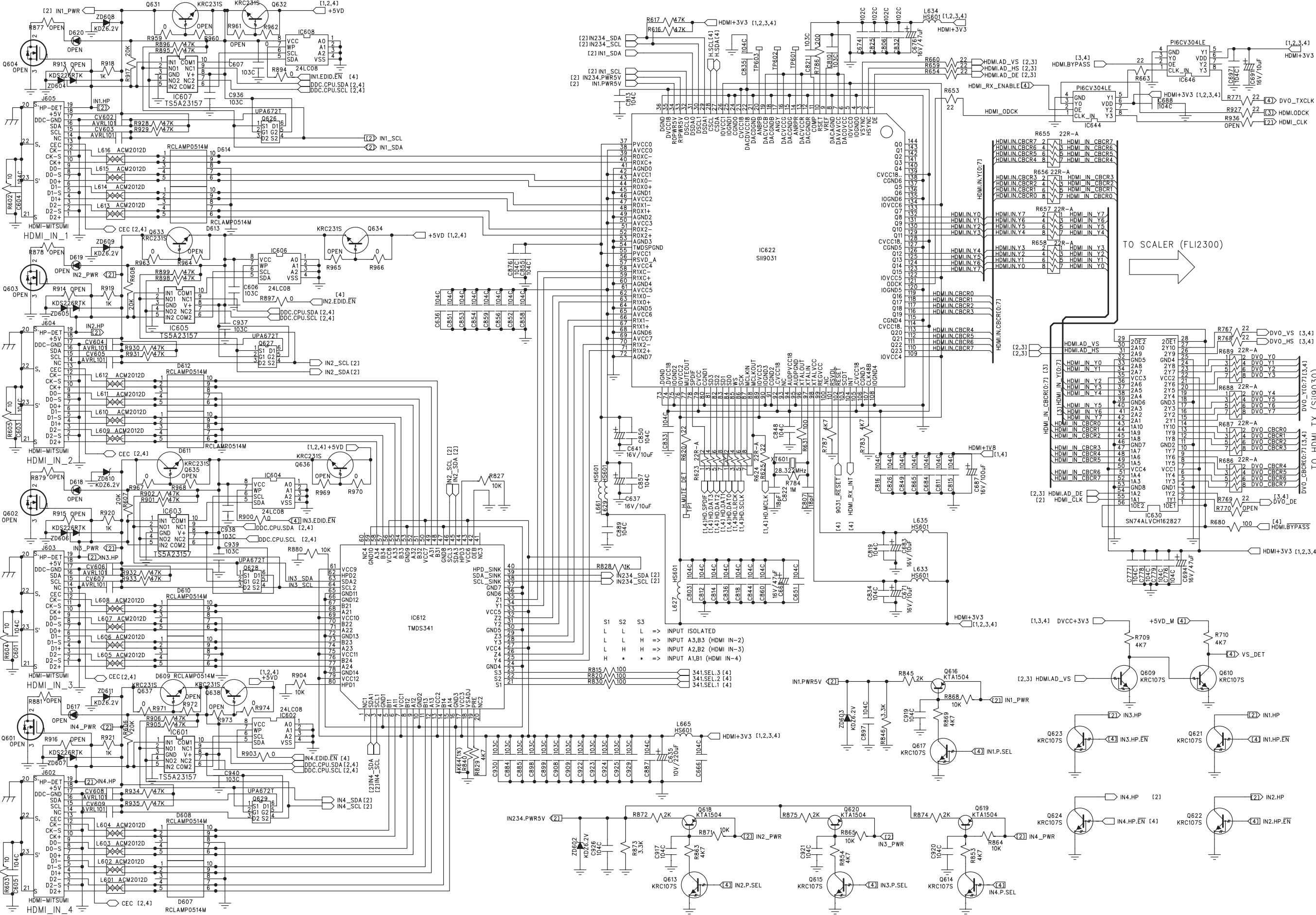
OUTPUT



HDMI PCB (1/4) 016 E-1488E00



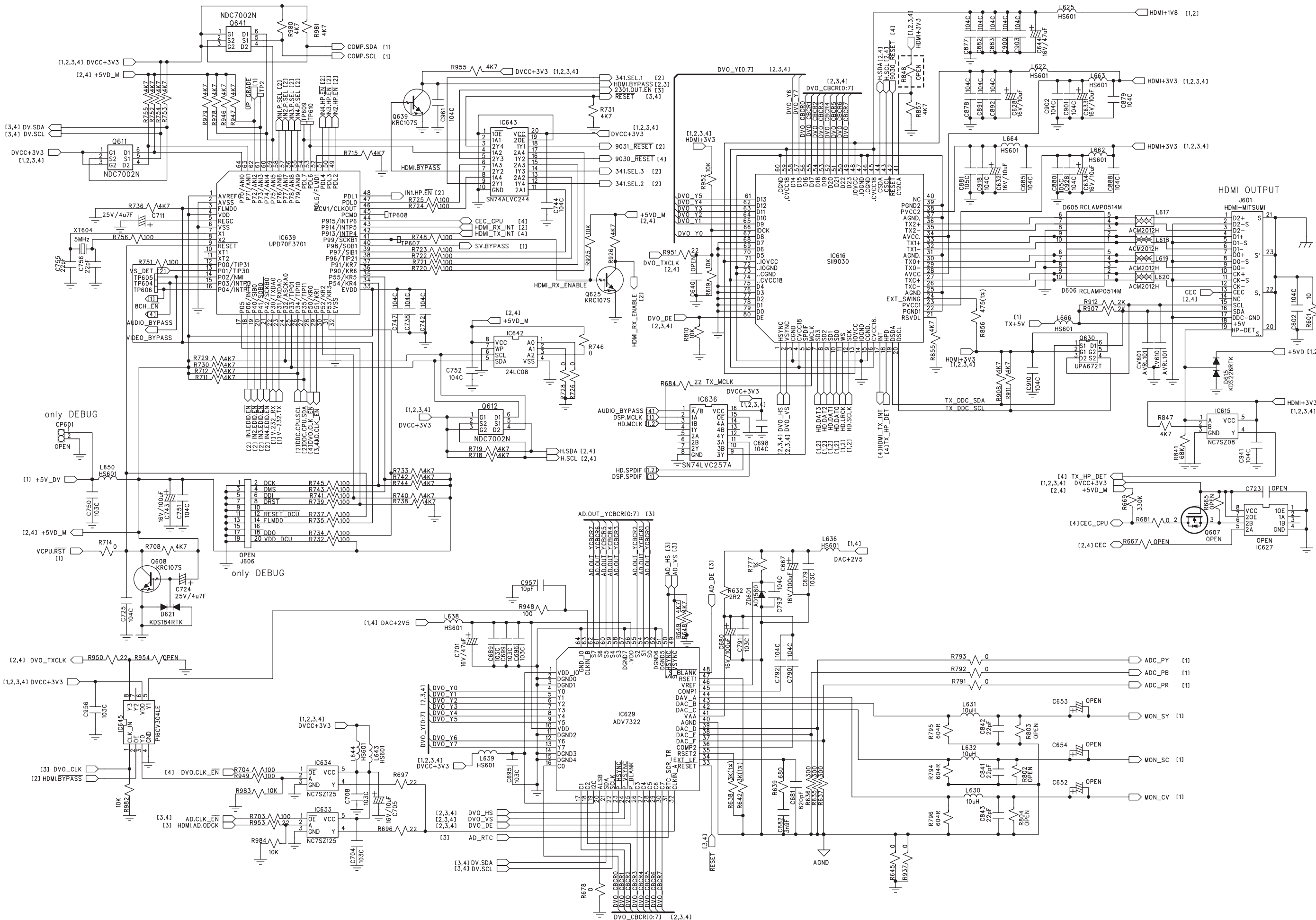
HDMI PCB (2/4) 016 E-1488E00



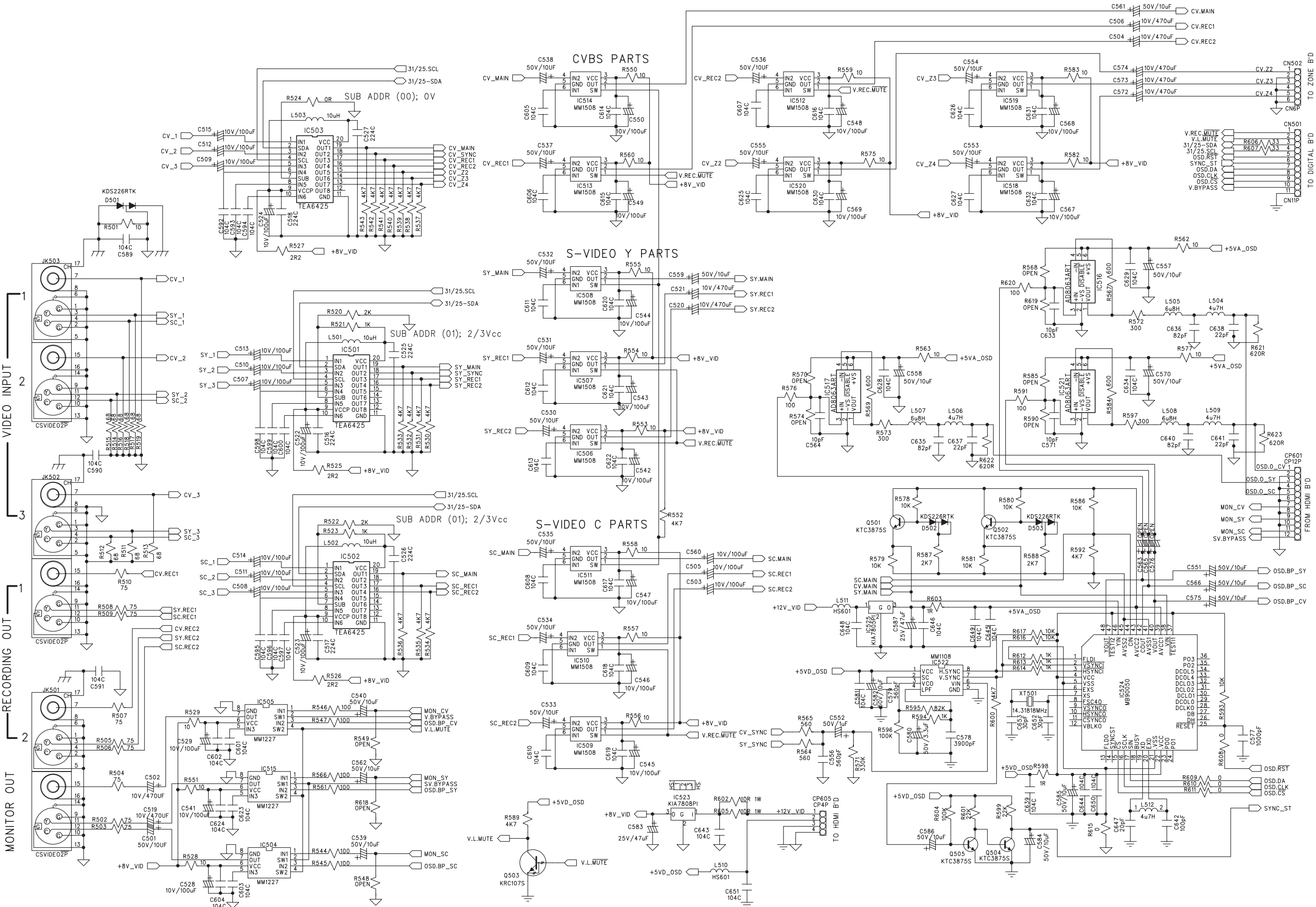
C186A



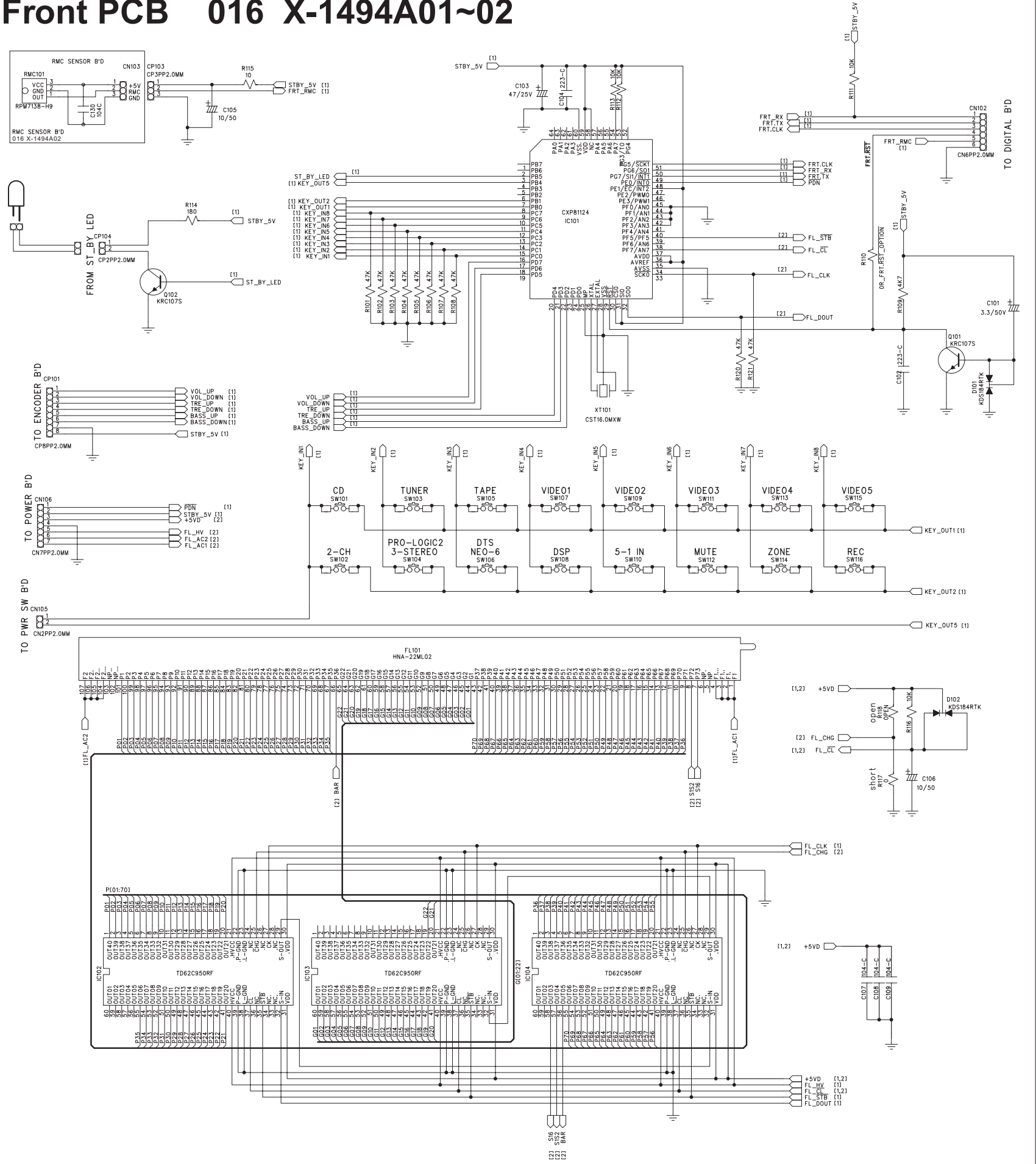
HDMI PCB (4/4) 016 E-1488E00



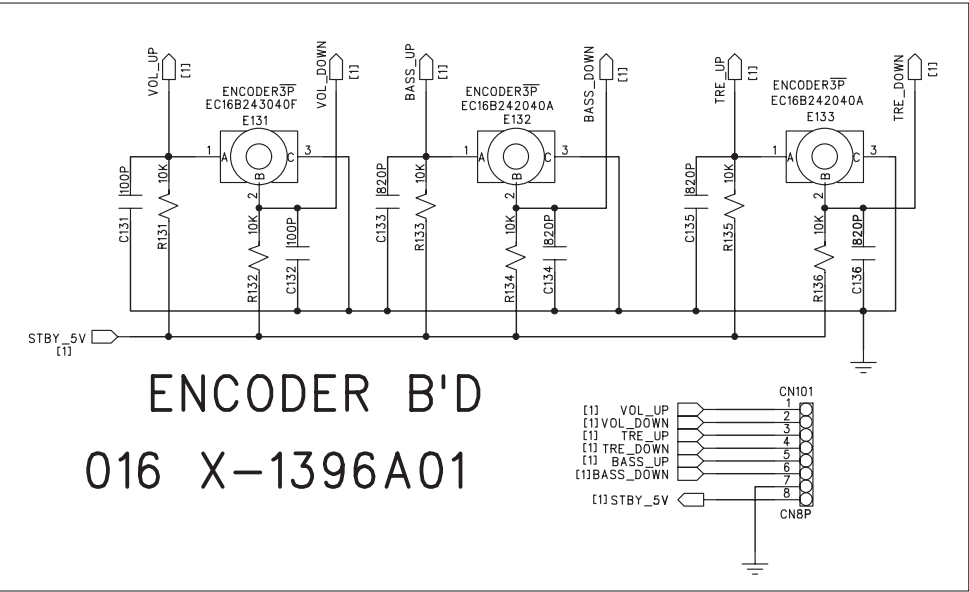
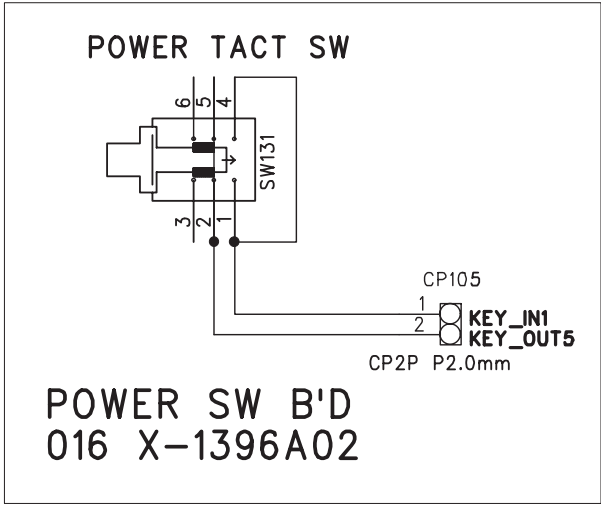
Video Input PCB 016 E-1489B00



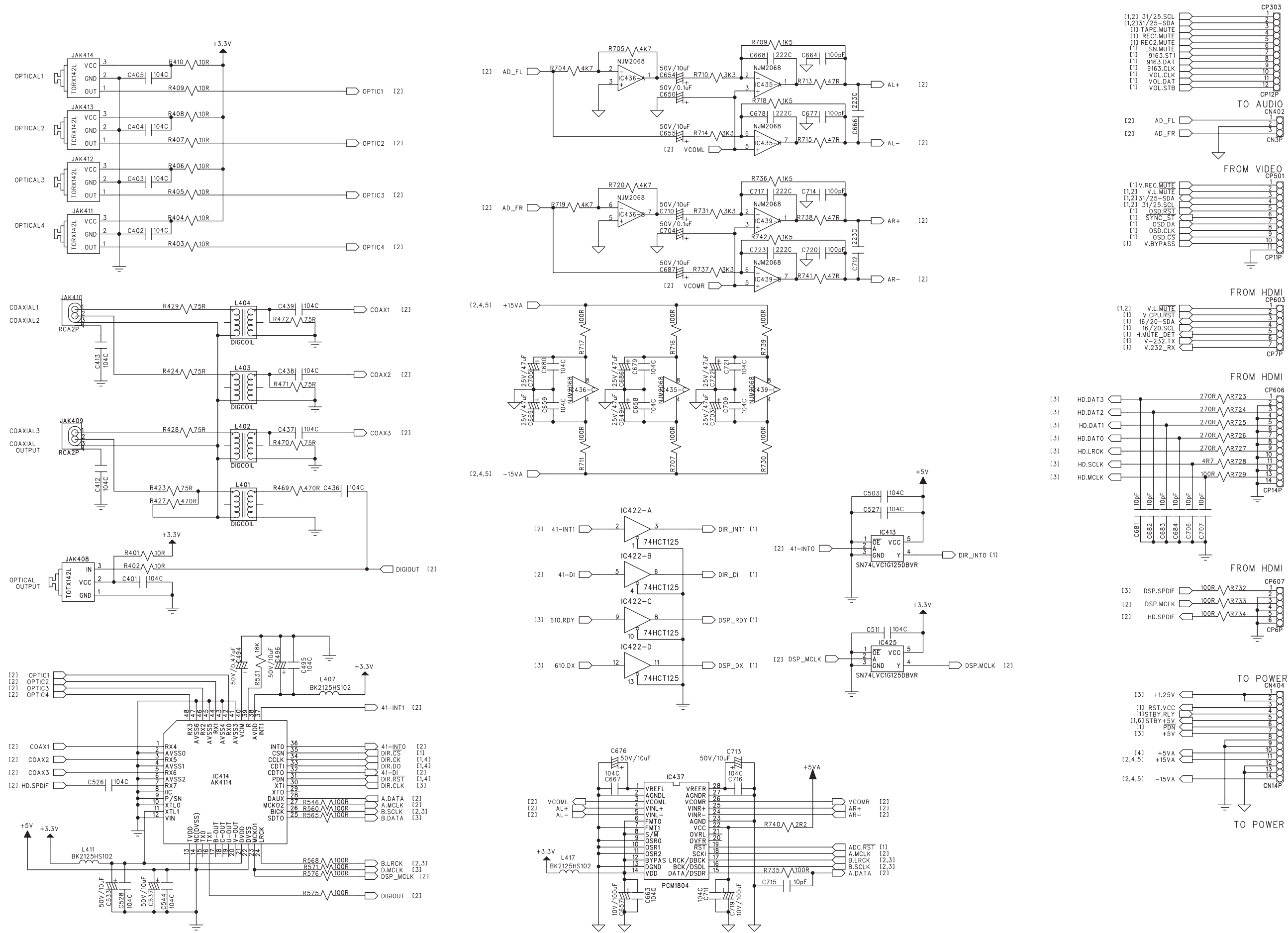
Front PCB 016 X-1494A01~02



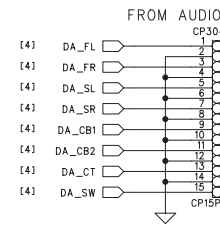
Encoder, Power SW PCB 016 X-1396A01~03



Digital PCB (1/4) 016 E-1495C00

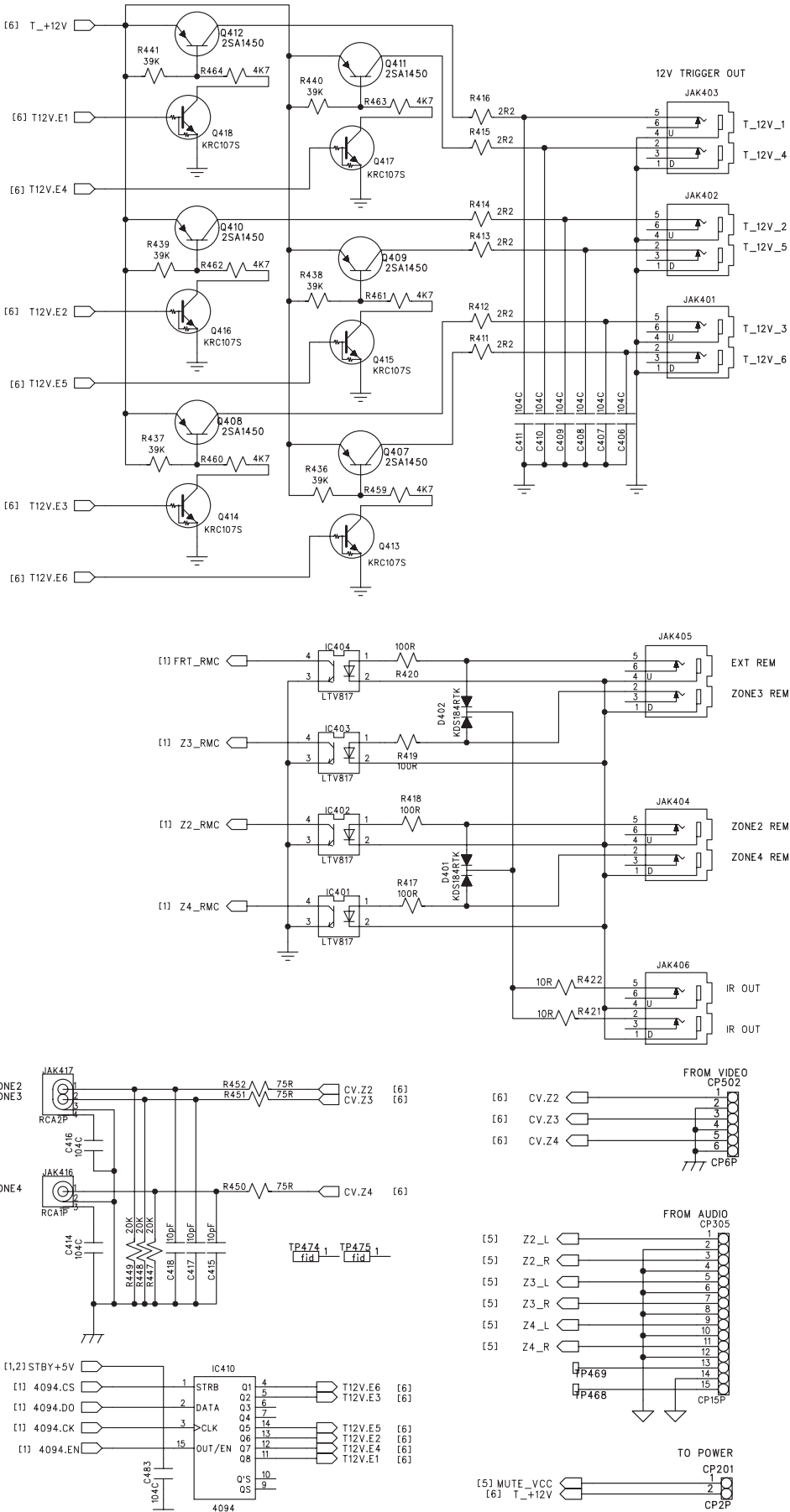
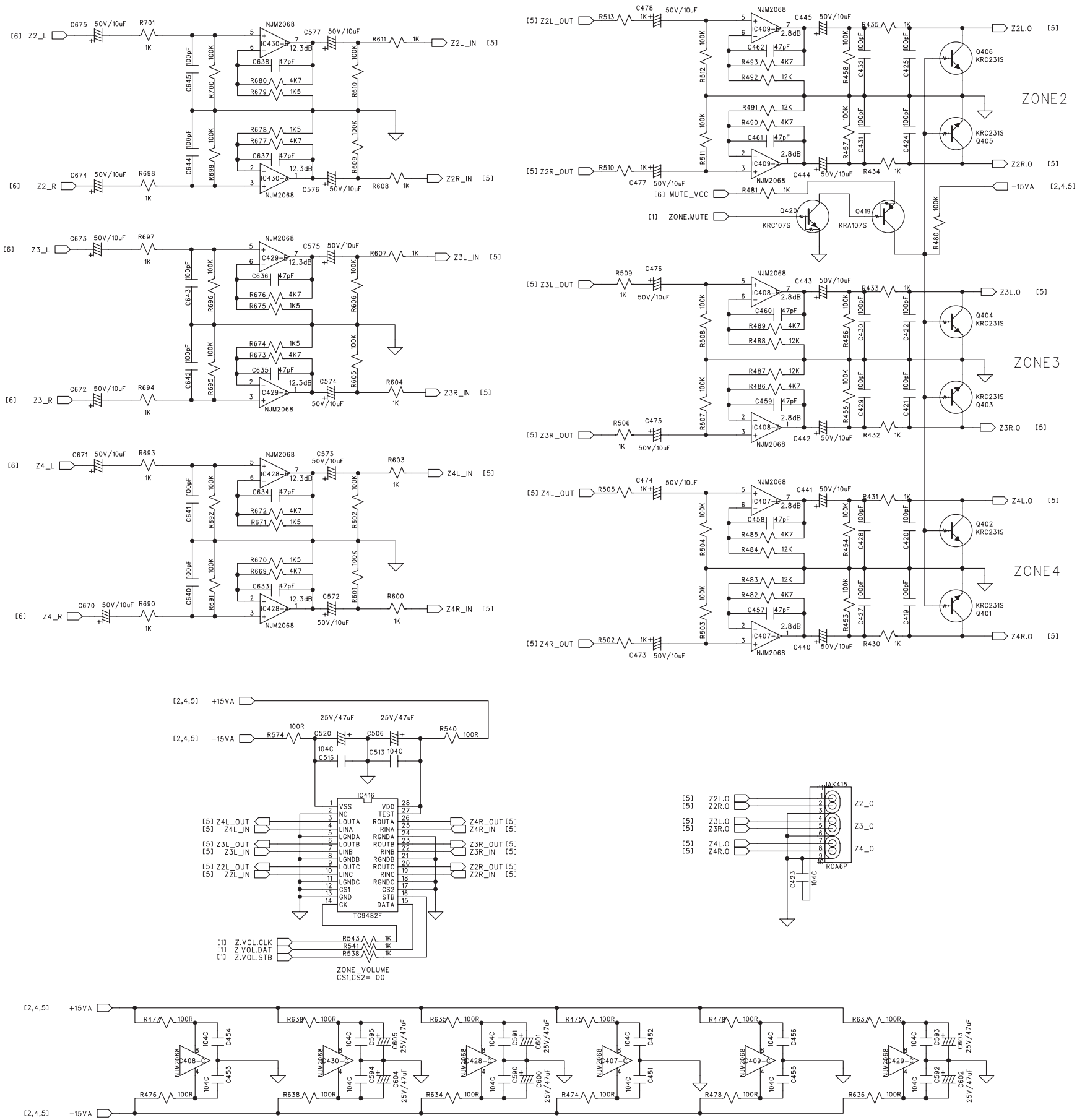






Schematic Diagram 13/14

Digital PCB (4/4) 016 E-1495C00



Power PCB 016 X-1496B01~03

