

MEMOREX MVDR2102

SERVICE MANUAL

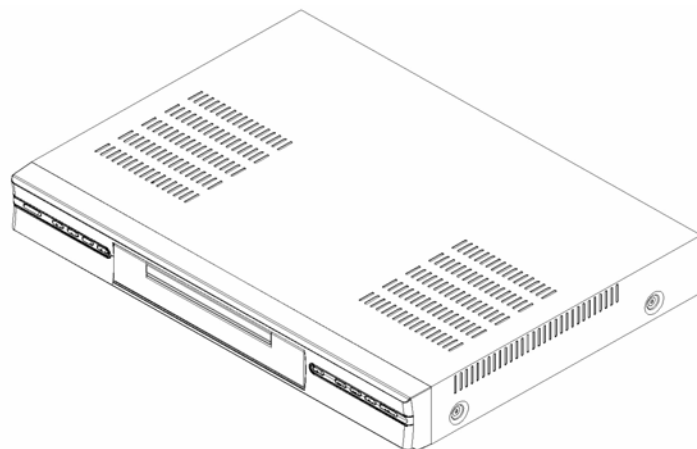
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K466UB

CAUTION: Before servicing the chassis, read the “IMPORTANT SERVICE SAFETY INFORMATION” section on page 2 of this manual.

SPECIFICATIONS

- **GENERAL SPECIFICATION**
- DVD Record
- Record external signal on DVD+R, DVD+RW
- Plays: VD+R/DVD+RW/DVD/CD/SVCD/VCD/JPEG/CD-MP3/CD-R/RW
- TV system: NTSC
- Built-in Dolby digital decoder, DTS digital out
- OSD languages
- Recording mode (based on 4.7GB DVD, single-sided, 1layer)
HQ = 60mins (Highest-level picture quality/ applicable to record high definition data from DV)
SP = 120mins (Standard picture quality, similar to DVD/ record video signals at DVD picture quality)
LP = 180mins (Long Play Mode)
EP = 240mins (Long time recording mode, picture quality better than VHS/ substitute for VCR)
SLP = 360mins (Ultra long time recording mode, picture quality better than VHS/applicable to record long-time programs or contents)
SEP = 420mins ((Super Extended Play Mode)
- Audio Video connector::
Front panel: Composite Audio-Video IN/S-Video IN/DV IN
Rear panel: Composite Audio-Video /S-Video IN & OUT
TV-RF IN & OUT/Coaxial-Optical OUT
- Audio-Video Cord included
- Multifunction remote control
- Power supply & consumption:
Operating power supply: AC100V ~ 240V, 50Hz/ 60Hz.
Power consumption: 35W
Standby-mode power consumption: 2W
- DIMENSION OF UNIT:
430(W) x 325(D) x 55mm



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Note: Follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

IMPORTANT SERVICE SAFETY INFORMATION

1. SAFETY PRECAUTIONS

Before returning a unit to the customer, always make a safety check of the entire unit, including, but not limited to the following items:

a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing.

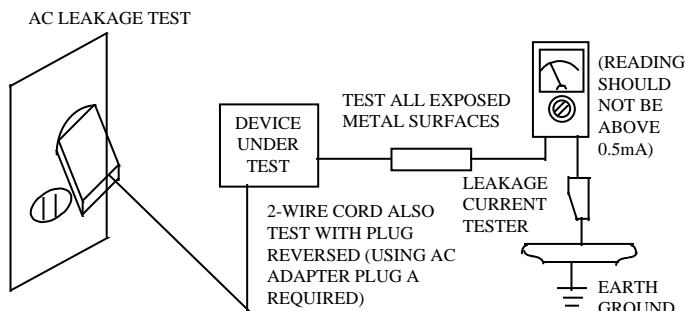
(1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields including any removed for servicing convenience.

(2) When reinstalling the chassis and/or other assemblies in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields and isolation resistor capacitor networks. Do not operate this unit of permit it to be operated without all protective devices correctly installed and functioning.

b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

c. Leakage Current Hot Check - With the unit completely reassembled, plug the AC line cord directly into a AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards institute (ANSI) C101.1 "Leakage Current for Appliances" and Underwriters Laboratories (UL) 1410, (50.7). With the unit AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the unit (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shaft, ect.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the unit power cord plug in the outlet and repeat test.

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

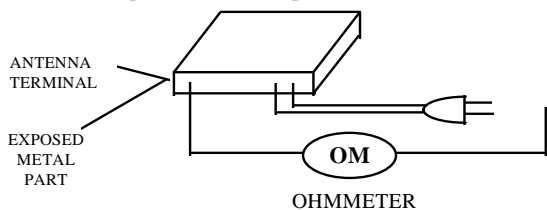


d. Insulation Resistance Test Cold Check

(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug.

(2) Turn on the power switch of the unit.

(3) Measure the resistance with an ohmmeter between the jumpered AC plug and each exposed metallic cabinet part on the unit, such as screwheads, antenna, control shaft, handle brackets, etc. When the exposed metallic part has a return path to the chassis, the reading



should be between 1 and 5.2 Megohm. When there is no return path to the chassis, the reading must be "infinite". If it is not within the limits specified, there is the possibility of a shock hazard, and the unit must be repaired and rechecked before it is returned to the customer.

2. PRODUCT SAFETY NOTICE

Some electrical and mechanical parts have special safety related characteristics which are often not evident from visual inspection, nor can be protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a Δ on schematic and parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. Product Safety is under review continuously and new instructions are issued whenever appropriate.

3. SERVICING PRECAUTIONS

CAUTION: Before servicing the unit covered by this service manual and its supplements, read and follow the SAFETY PRECAUTIONS on this page. NOTE: If unforeseen circumstances create a conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions.

a. Always unplug the unit's AC power cord from the AC power source before:

(1) removing or reinstalling any component, circuit board, module, or any other unit assembly.

(2) disconnecting or reconnecting any unit electrical plug or other electrical connection.

(3) connecting a test substitute in parallel with an electrolytic capacitor in the unit.

Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

b. Do not defeat any plug/socket B+ voltage interlocks with which the unit covered by this service manual might be equipped.

c. Do not apply AC power to this unit and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

d. Always connect a test unit ground lead to the unit chassis ground before connecting the test unit positive lead. Always remove the test instrument's ground lead last.

4. LASER PRECAUTIONS

WARNING!

1. When servicing (in case it is necessary to confirm Laser Beam Emission), be sure not to place your eyes any closer than 1 ft or 30cm from the surface of the Object Lens on the Optical Pickup Block.

HANDLING THE LASER PICKUP

2. Laser diodes are extremely susceptible to damage from static electricity. Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly. When replacing the pickup, use a conductive mat on the floor and desk and wear a wrist band connected to ground through a 1M ohm resistor to protect the laser diode from static damage. If the lens should get dusty, blow off the dust carefully from the object.

3. There are no adjustable parts in the pickup assembly. If it is defective, replace the whole pickup assembly.

CAUTION:

USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

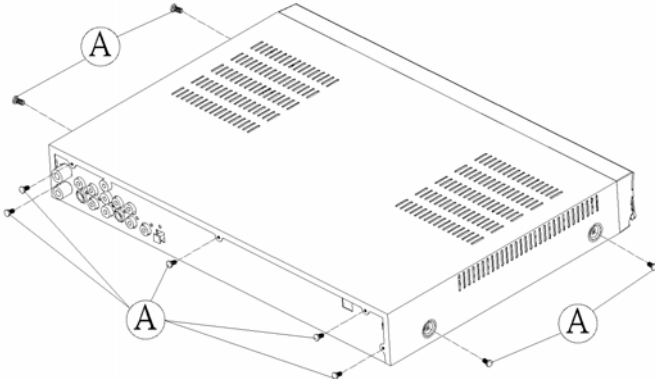
DANGER:

IF INTERLOCK FAILS OR IS DEFEATED, THE LASER LIGHT IS ABLE TO FUNCTION. THE LASER IS INVISIBLE, AVOID DIRECT EXPOSURE TO BEAM.

DISASSEMBLY FOR REPAIR

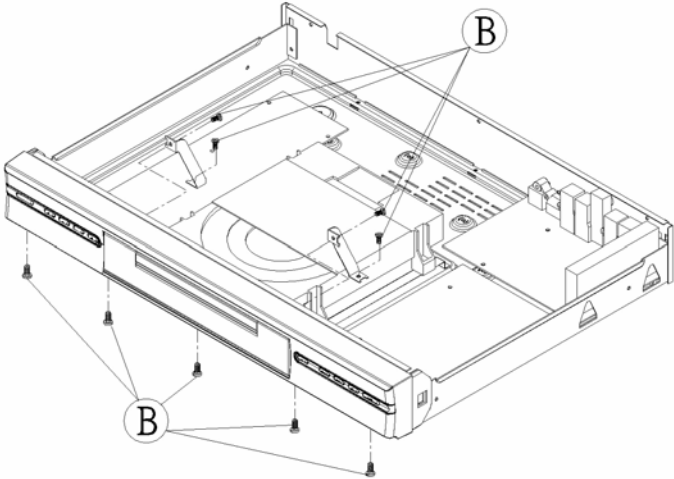
TO DISASSEMBLY THE TOP CABINET

- 1. Remove the 9 screws (A) from top cabinet.



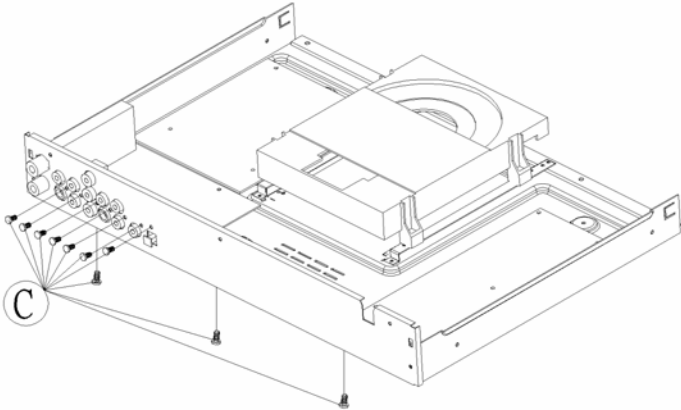
TO DISSAEMBLE THE FRONT CABINET

- 2. Remove 9 screws (B) from the top bracket and the front cabinet.

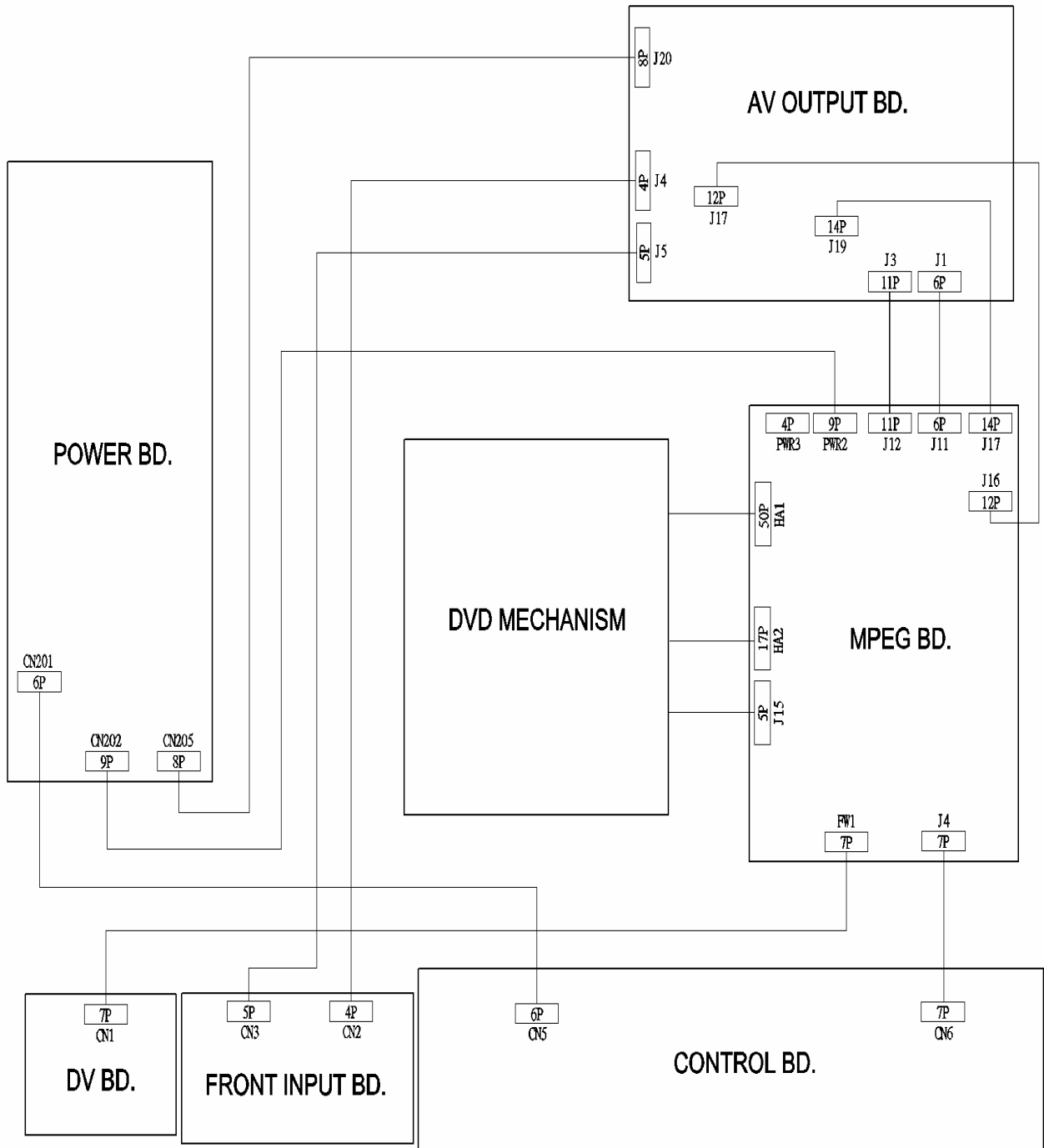


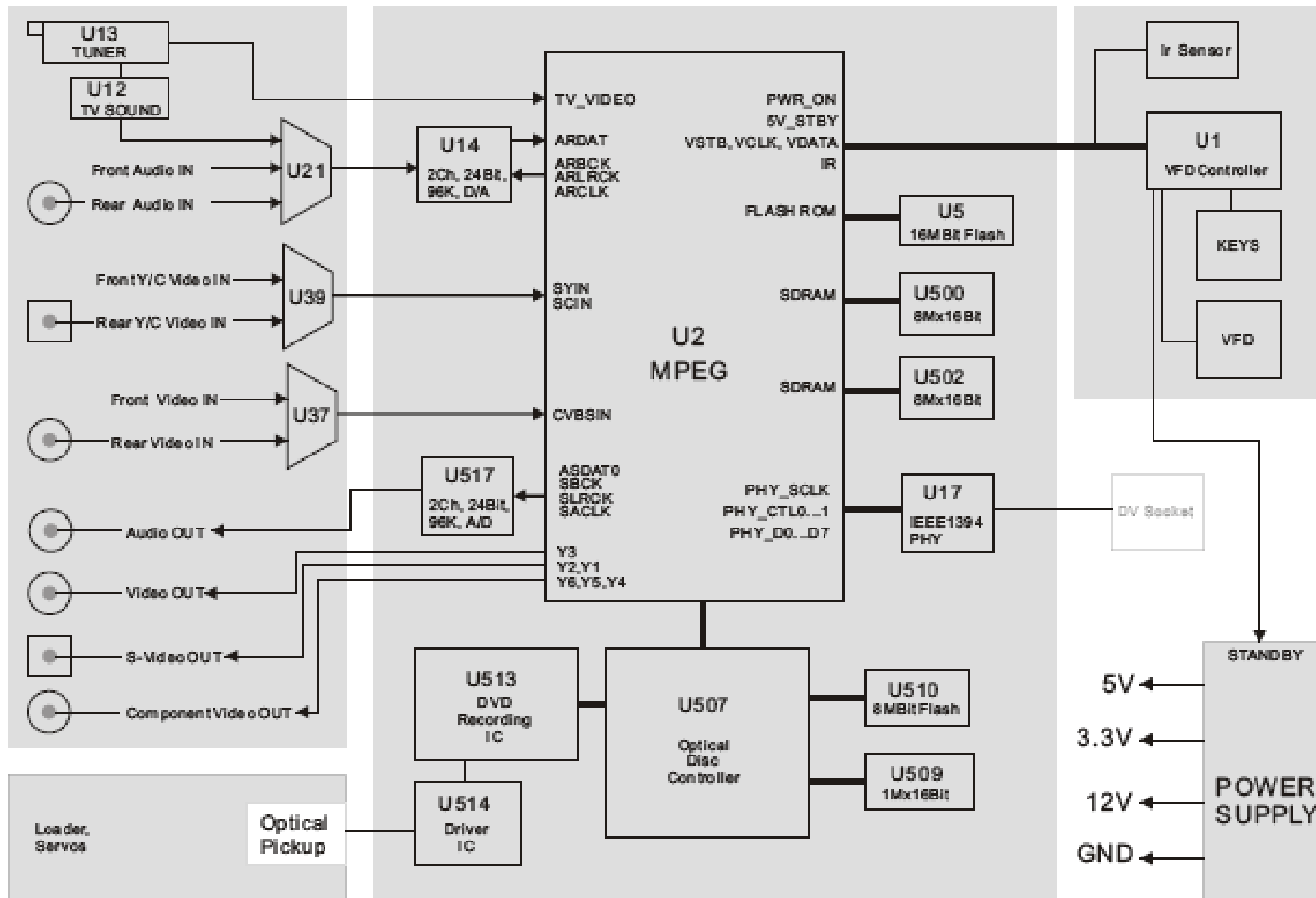
TO REMOVE THE REAR PLATE

- 3. Remove the 10 screws (C) from the rear plate.



WIRING DIAGRAM

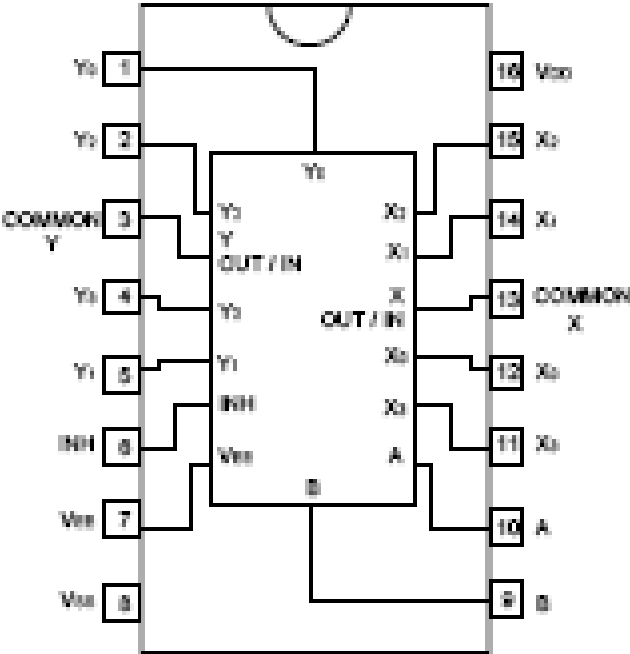




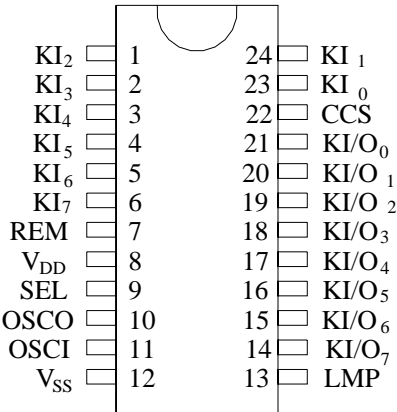
BLOCK DIAGRAM

CIRCUIT DESCRIPTION

DUAL 4-CHANNEL ANALOG MULTIPLEXER /DEMULTIPLEXER: BU4052BCF (U21,37)

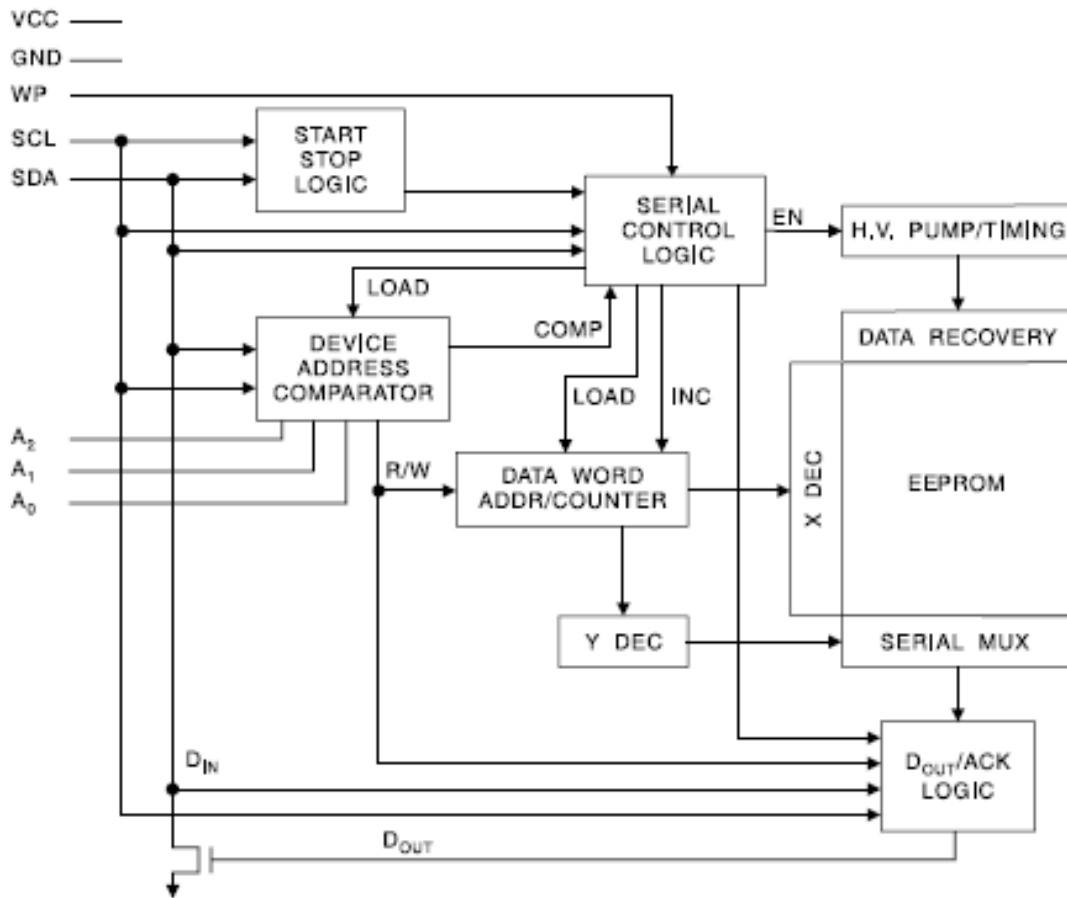


INFRARED REMOTE CONTROL TRANSMITTER : PT2222-002 (IC1)

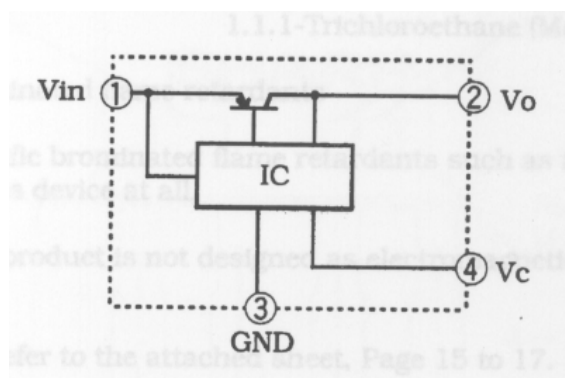


CIRCUIT DESCRIPTION

2-WIRE SERIAL EEPROM : AT24C16AN-10SI-2.7V (U3)

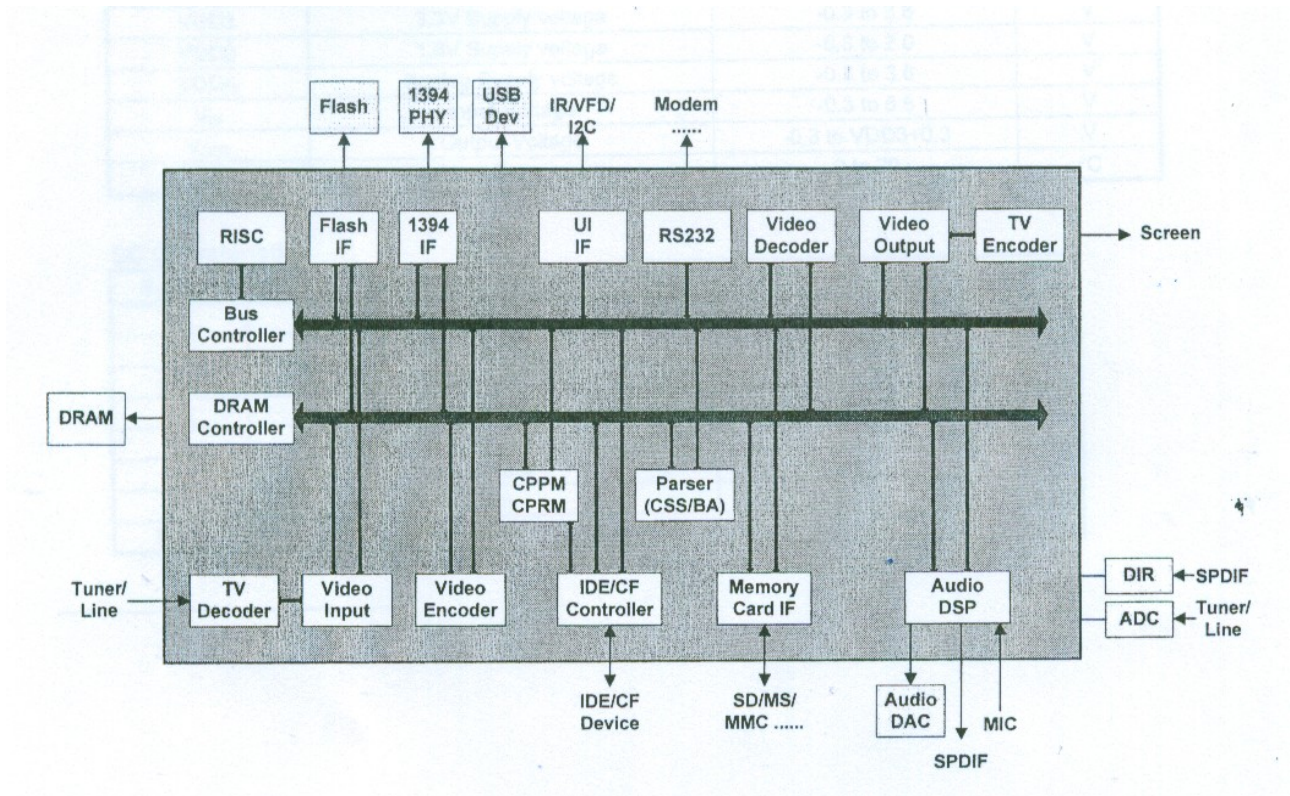


VOLTAGE REGULATOR: PQ12RD21 (IC201)

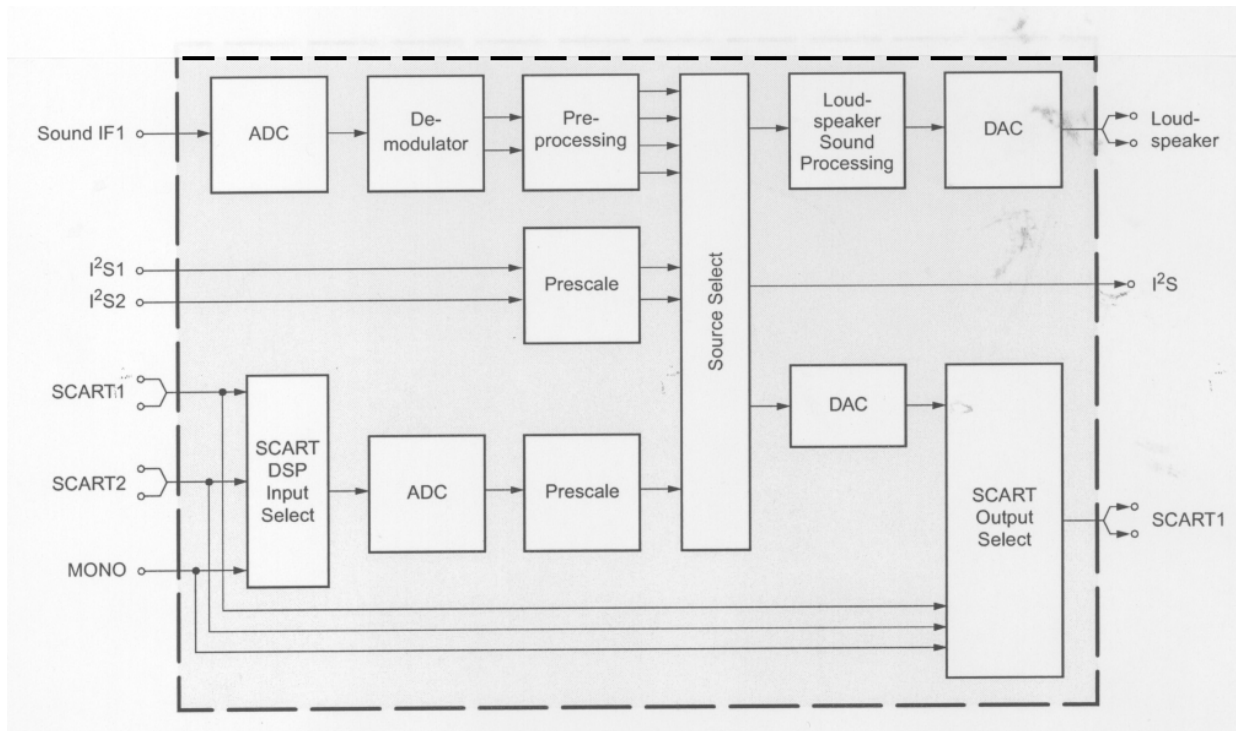


CIRCUIT DESCRIPTION

MPEG CODEC SOC: MT8105GE (U2)

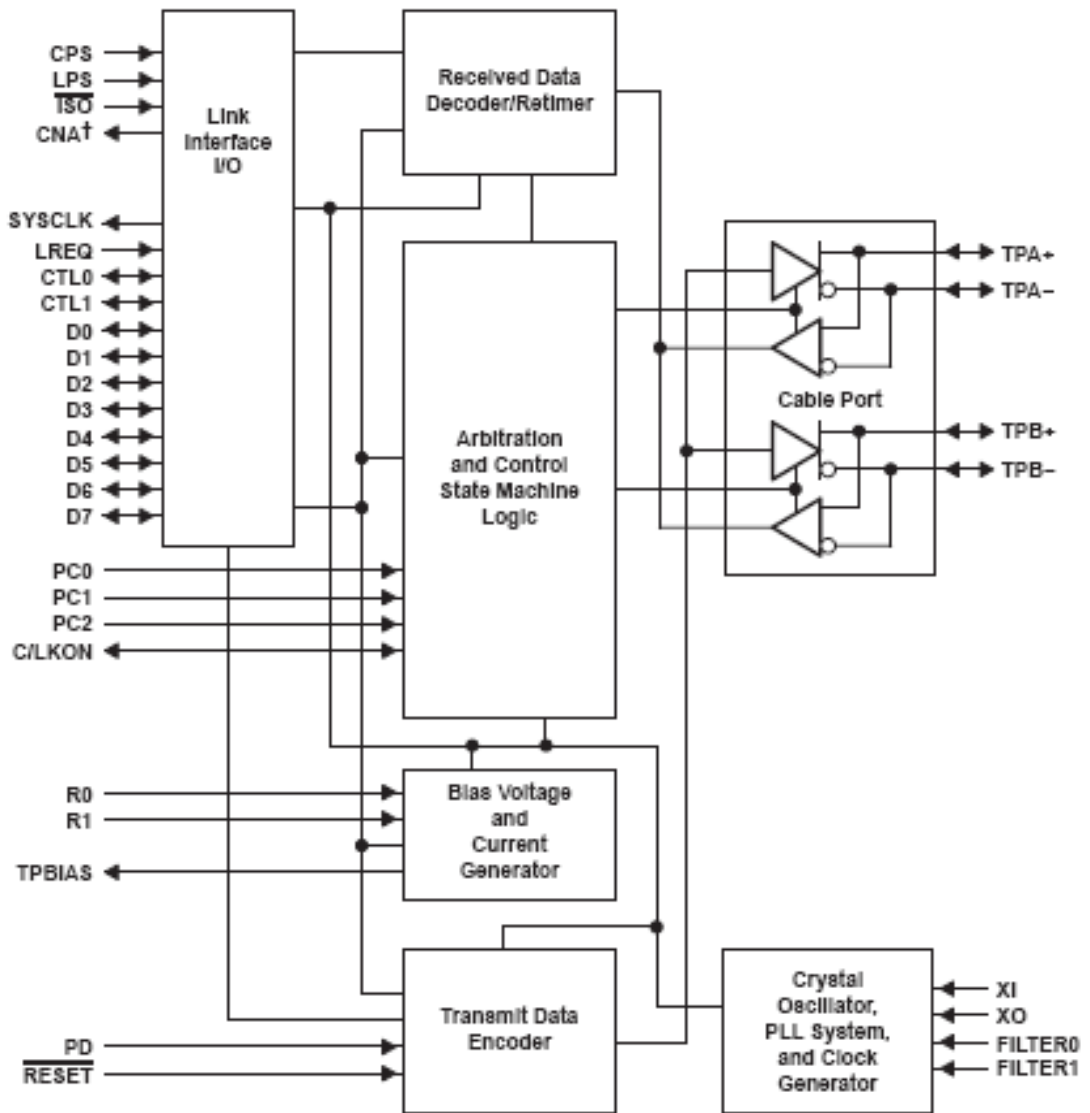


MULTISTANDARD SOUND PROCESSOR FAMILY: MSP3425G-QG-B8-V3 (U12)

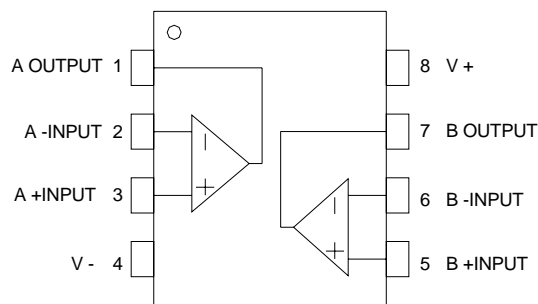


CIRCUIT DESCRIPTION

IEEE 1394a-2000 ONE-PORT CABLE TRANSCEIVER/ARBITER: TSB41AB1PHP (U17)

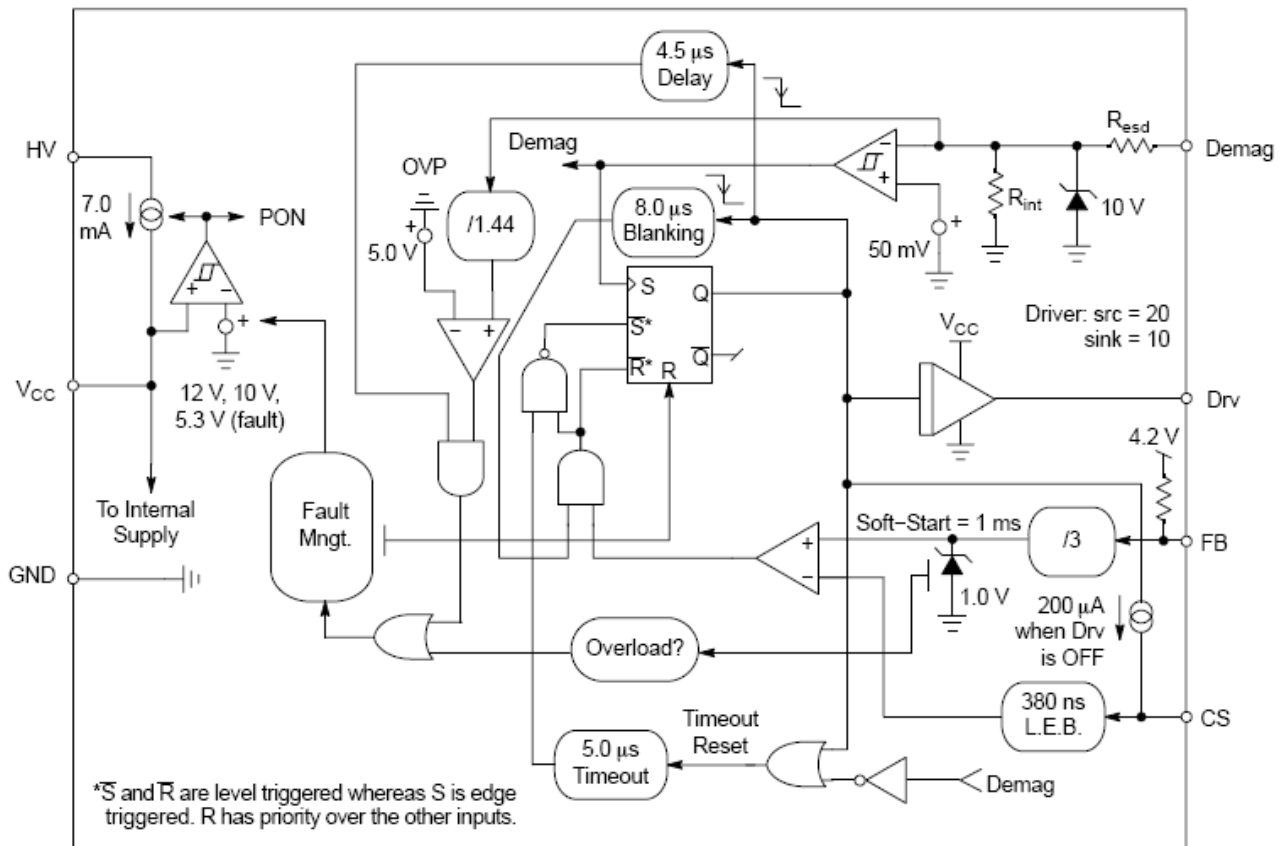


DUAL OPERATIONAL AMPLIFIER: UTC4558 (U10,15)

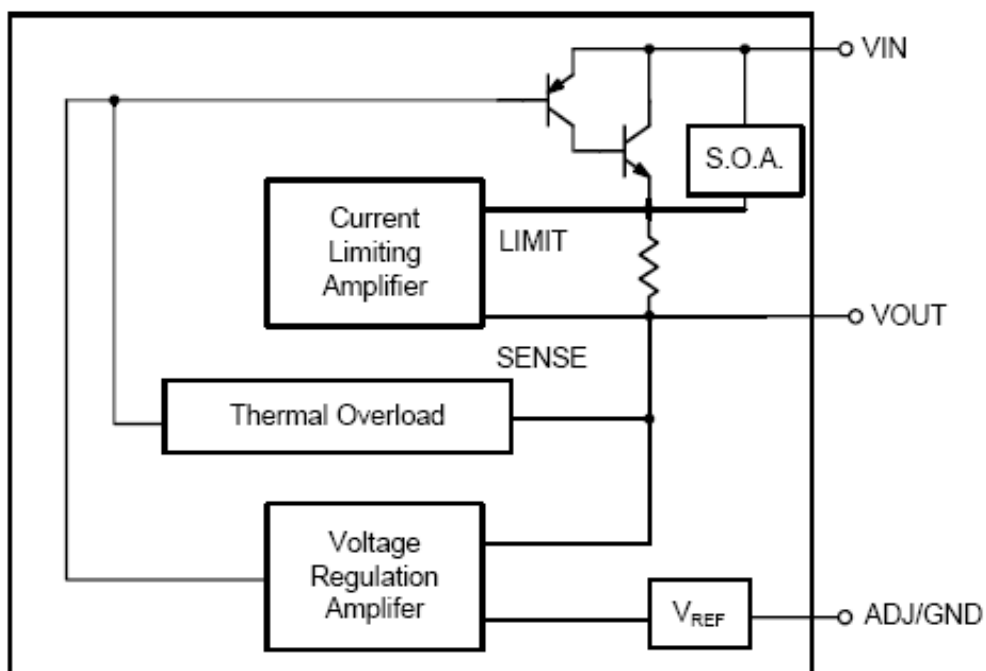


CIRCUIT DESCRIPTION

PWM CURRENT-MODE CONTROLLER FOR FREE RUNNING QUASI-RESONANT OPERATION: NCP1207ADR2G (IC101)

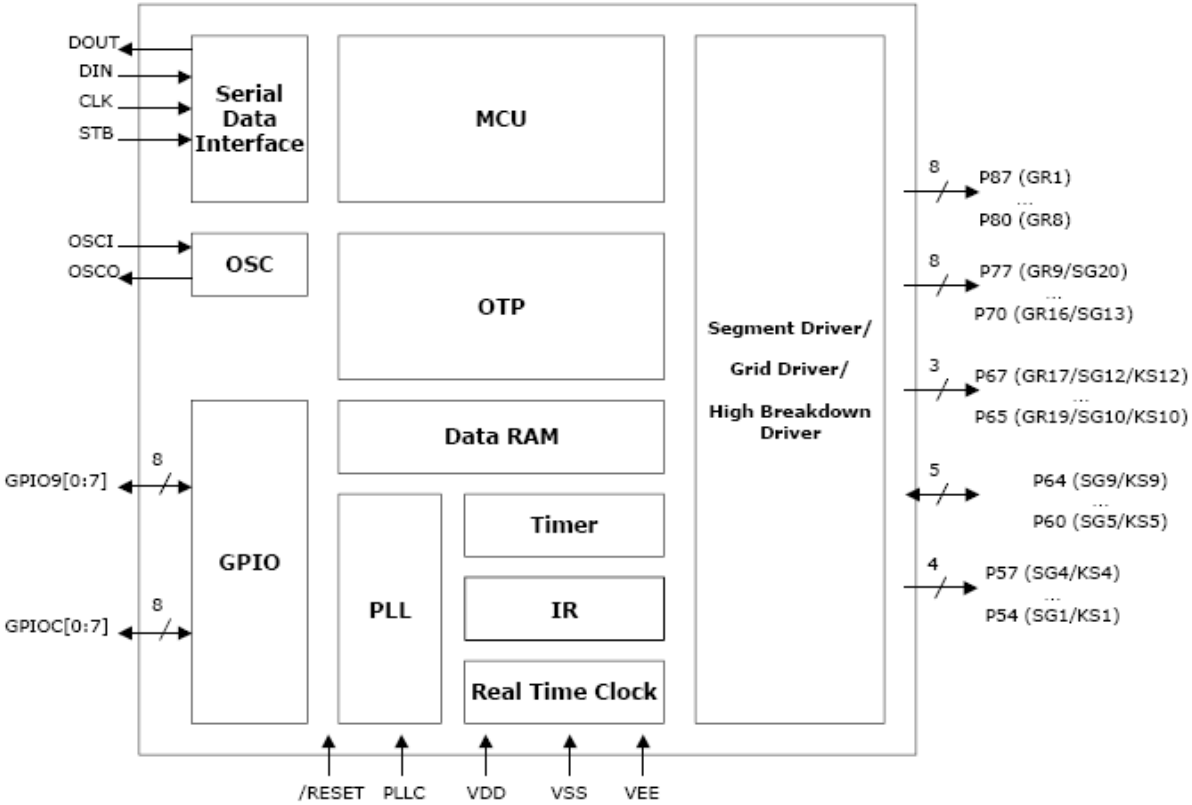


1.0A FIXED AND ADJUSTABLE LOW DROPOUT POSITIVE VOLTAGE REGULATORS: RT9164A-CG (U2, U516, U1)

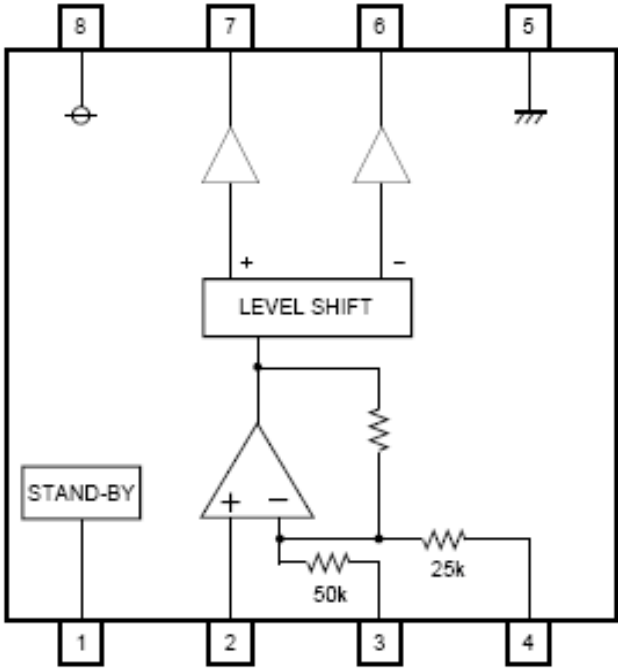


CIRCUIT DESCRIPTION

VFD MICROCOMPUTER: LC588620B (U1)

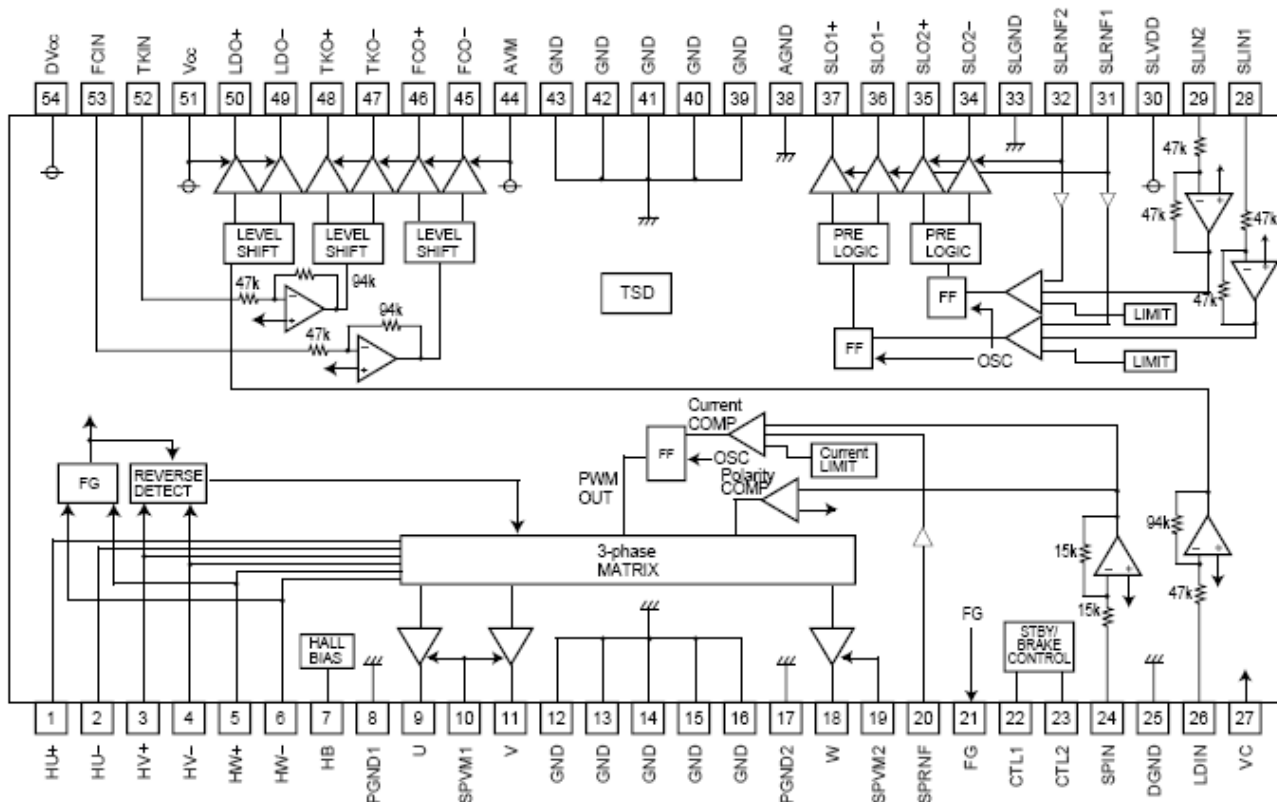


1CH BTL POWER DRIVER IC: BA5962FVM (U15)

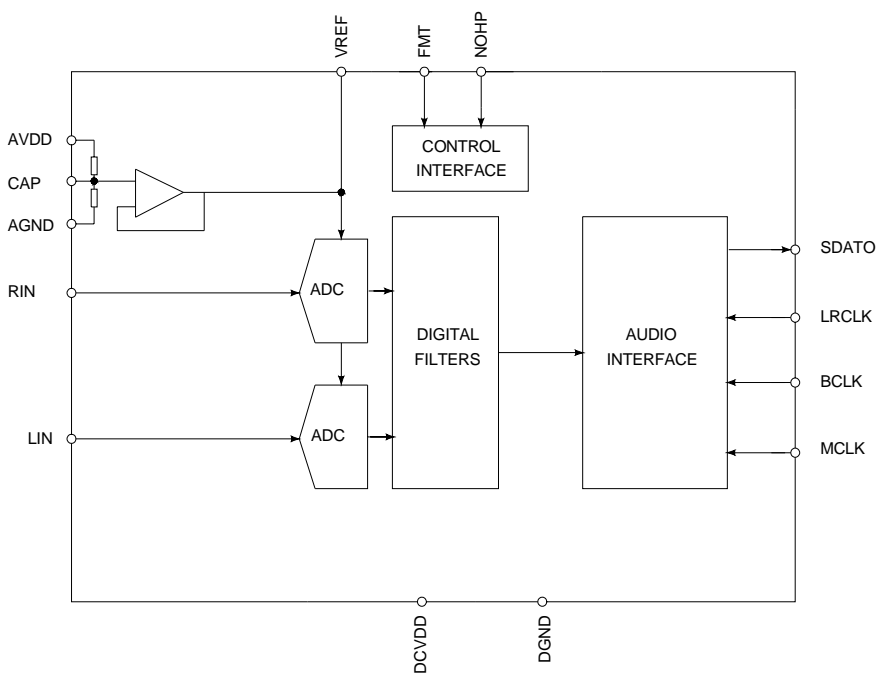


CIRCUIT DESCRIPTION

6CH POWER DRIVER FOR CD-ROM, DVD-ROM: BD7902CFS (U514)

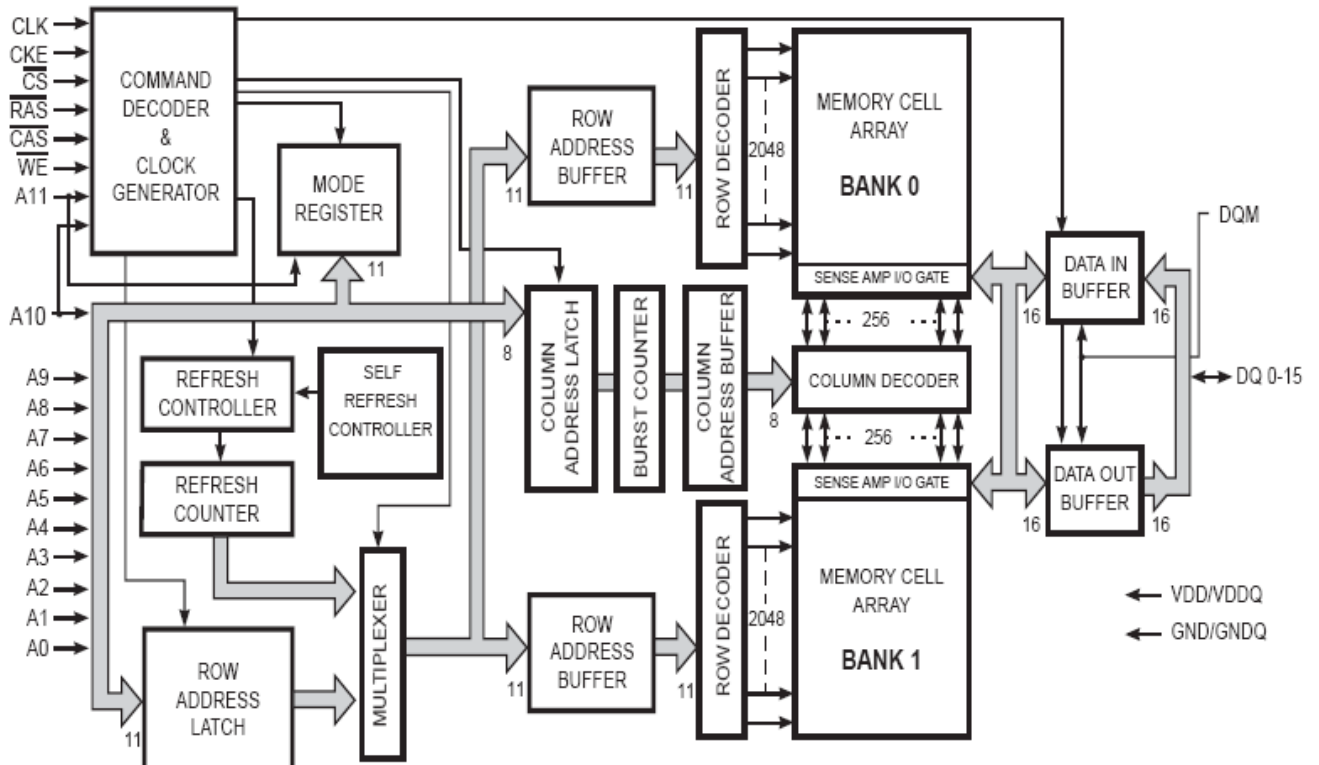


24 BIT STEREO ADC: WM8738 (U14)

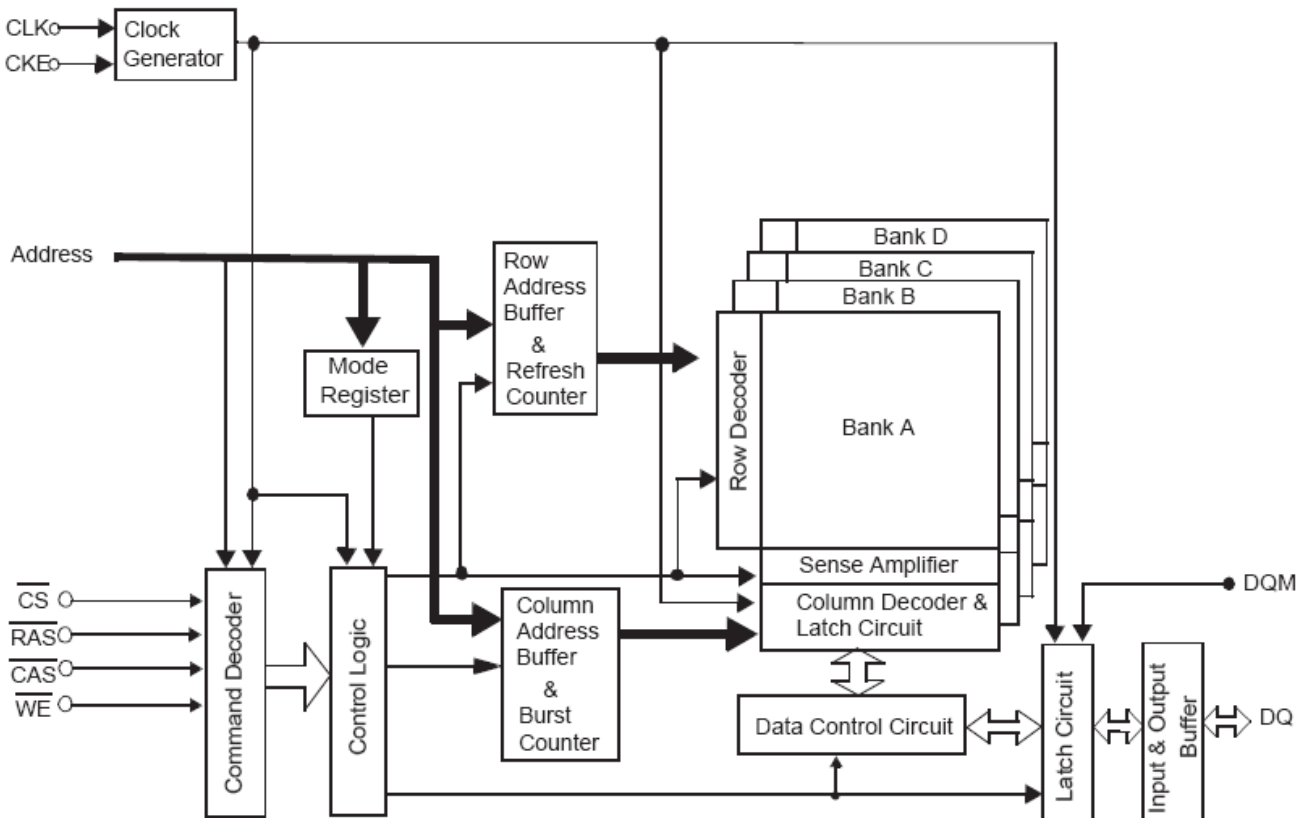


CIRCUIT DESCRIPTION

512K WORDS X 16 BITS X 2 BANKS (16-MBIT) SYNCHRONOUS DYNAMIC RAM: K4S161622H-UC60 (U508)

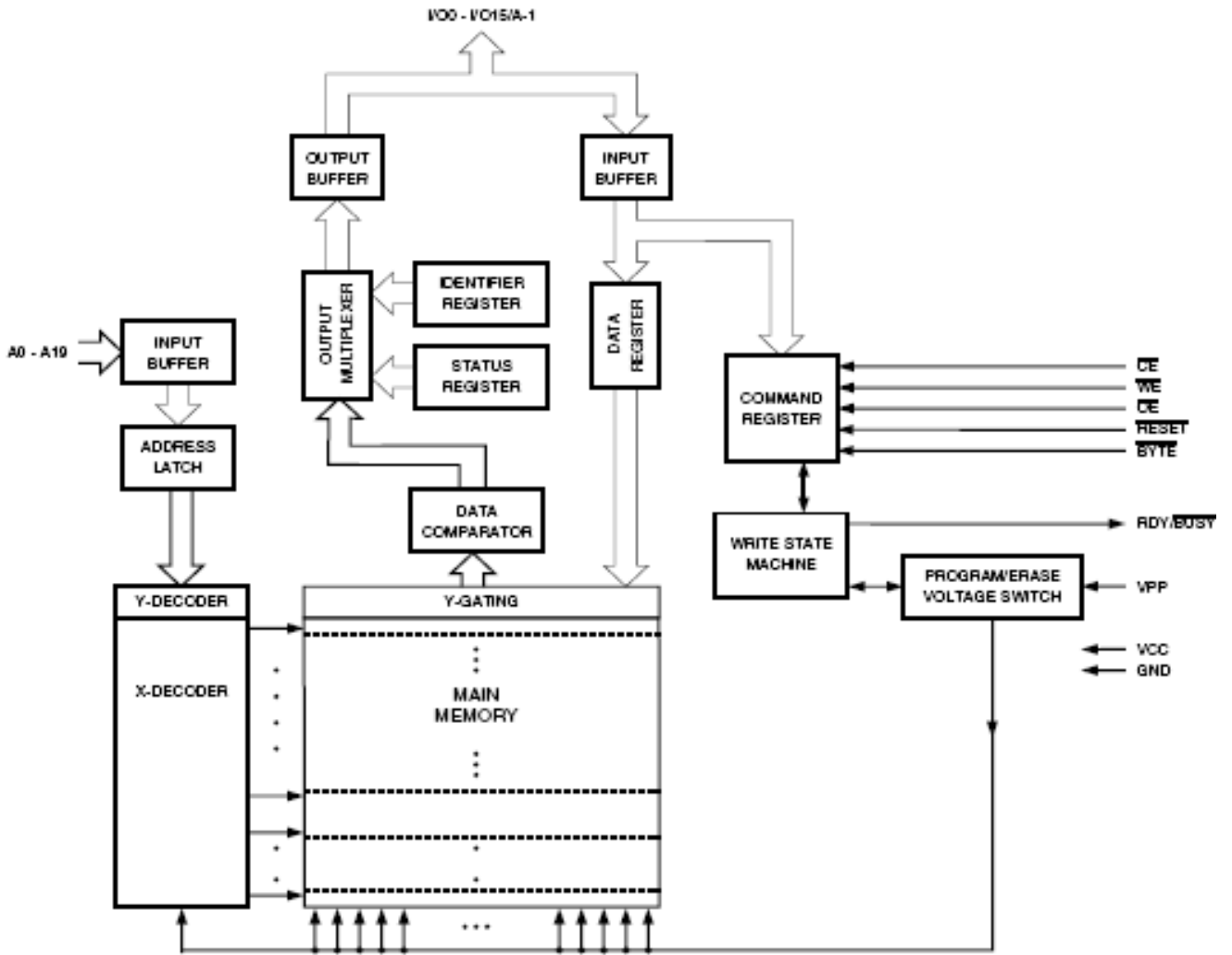


4(2)M X 8(16) BITS X 4 BANKS (128-MBIT) SYNCHRONOUS DYNAMIC RAM: K4S281632F-UC75 (U500,502)

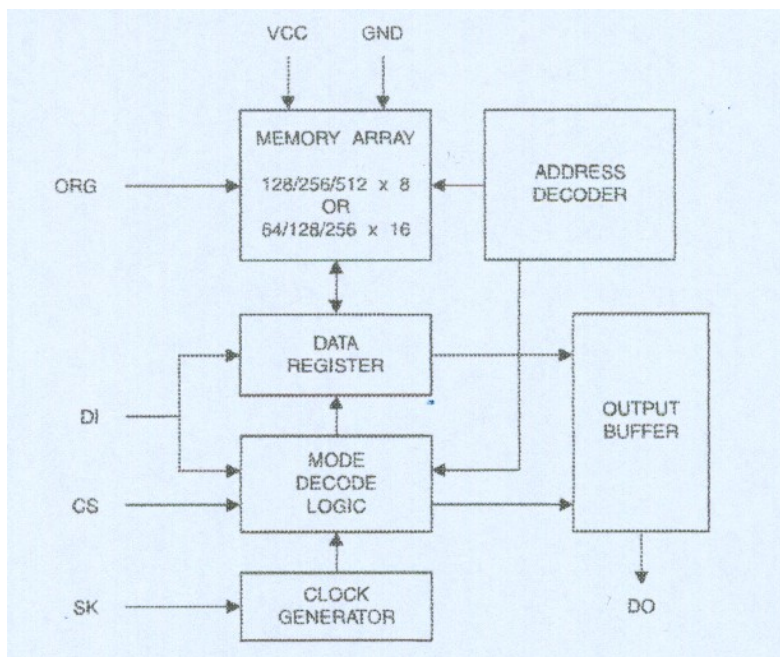


CIRCUIT DESCRIPTION

16-MEGABIT (1M X 16/2M X 8) 3-VOLT ONLY FLASH MEMORY: AT49BV163A-70TU (U5)

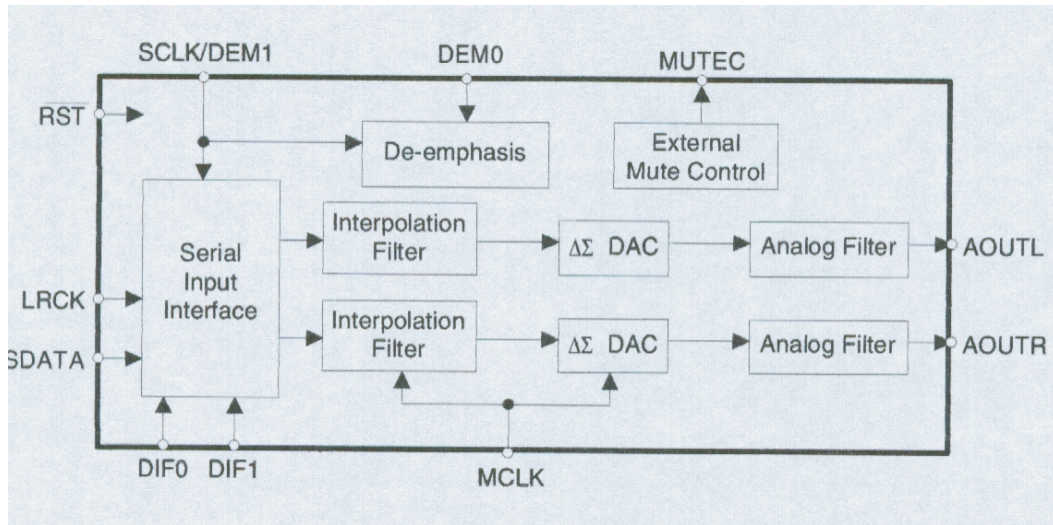


THREE-WIRE SERIAL EEPROMS: AT93C66-10SI-2.7 (U512)

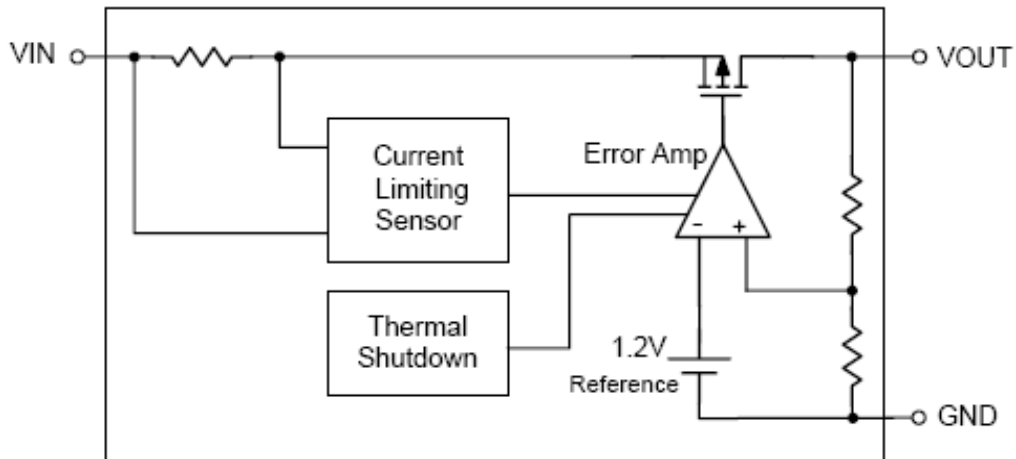


CIRCUIT DESCRIPTION

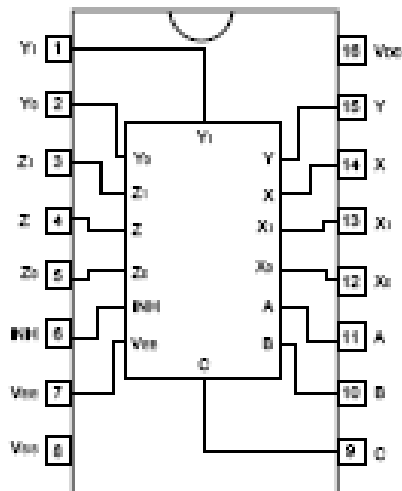
24-BIT, 96KHZ STEREO D/A CONVERTER FOR AUDIO: CS4340 (U517)



300/500MA, ULTRA-FAST TRANSIENT RESPONSE LDO REGULATOR: RT-9166/A-25CXL (U503)

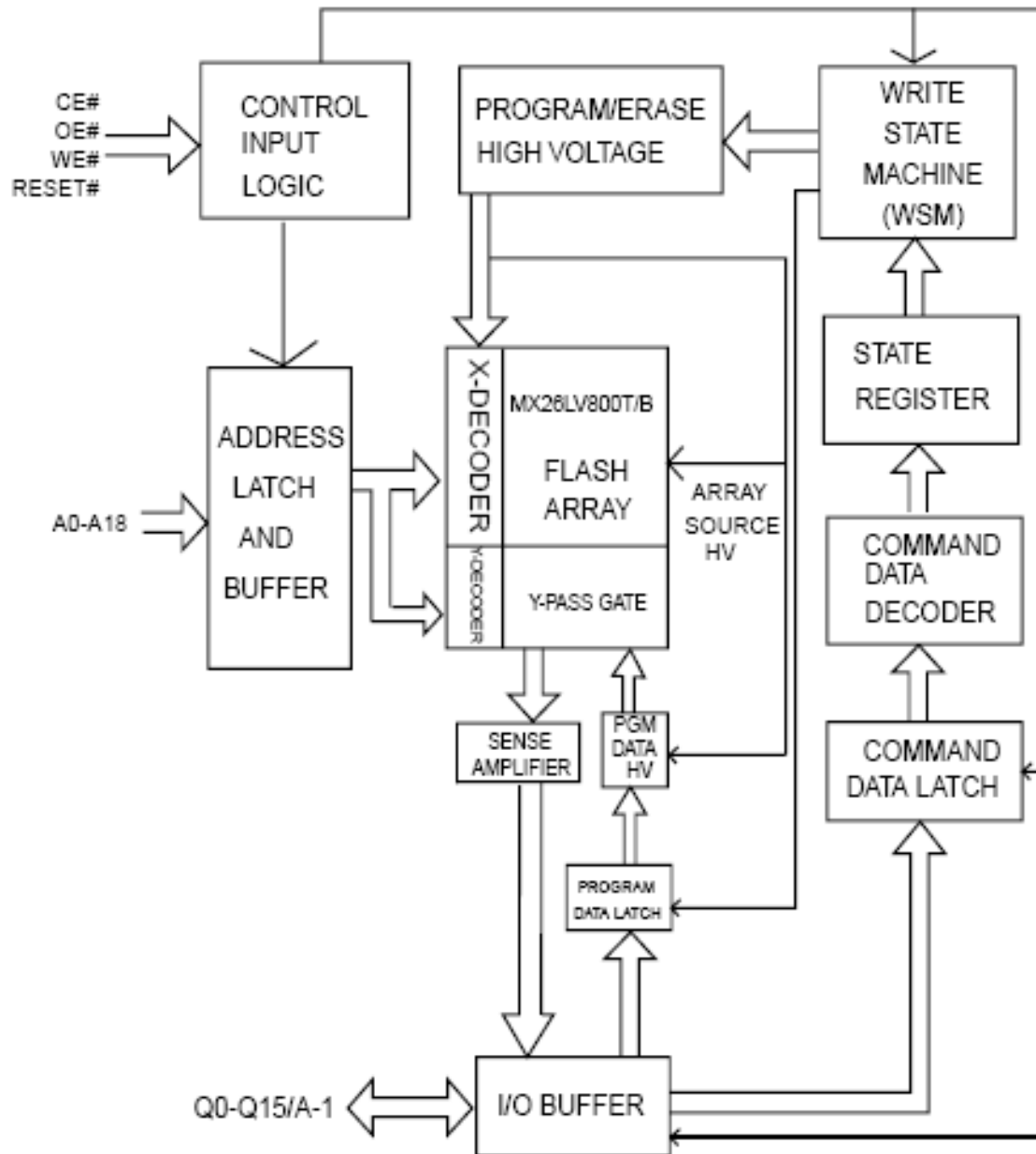


TRIPLE 2-CHANNEL ANALOG MULTIPLEXER / DEMULTIPLEXER: BU4053BCF (U39)



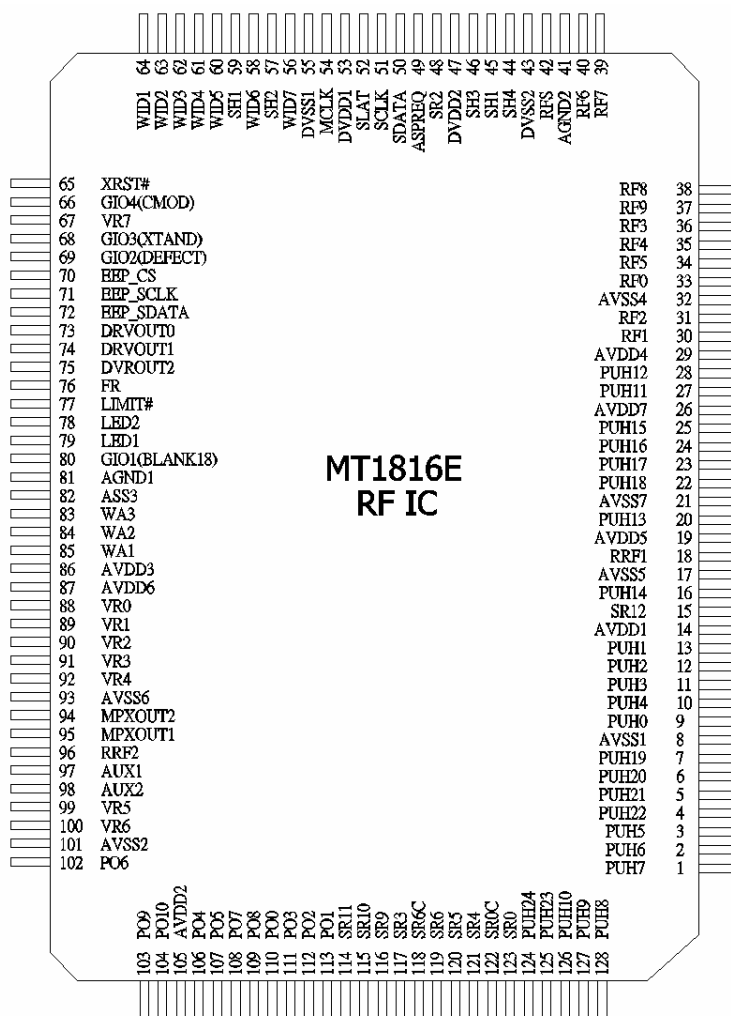
CIRCUIT DESCRIPTION

8M-BIT [1MX8/512K X16] CMOS SINGLE VOLTAGE 3V ONLY HIGH SPEED ELITEFLASH™ MEMORY : AT49BV802AT-70TU (U510)

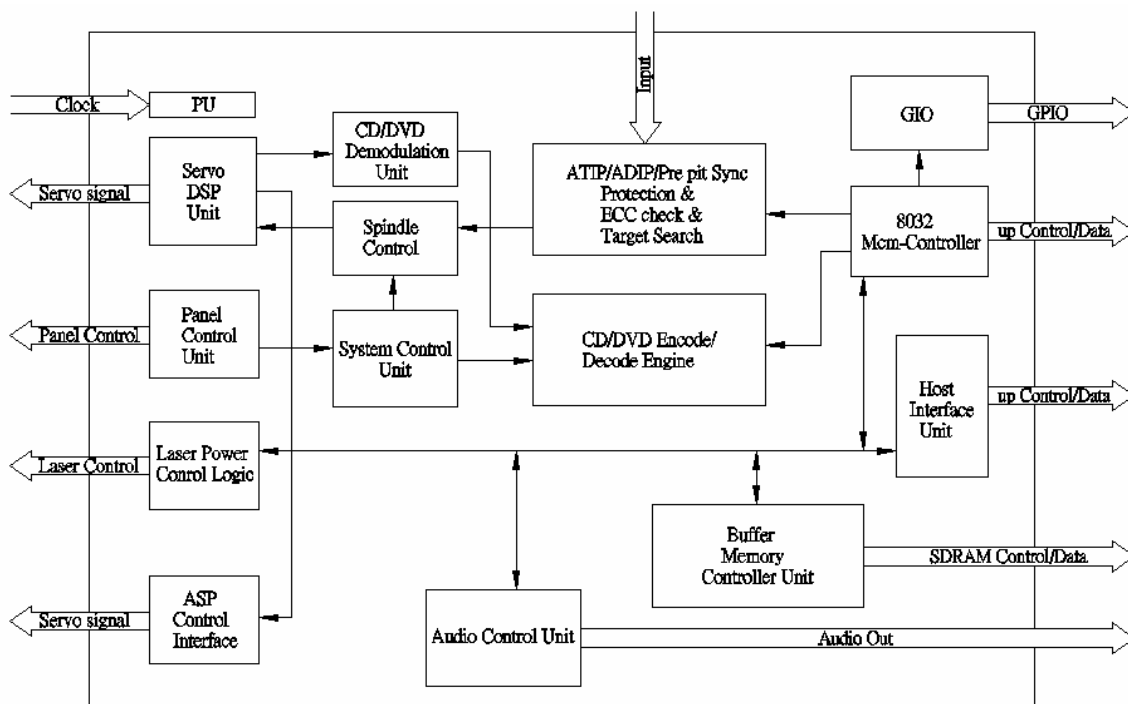


CIRCUIT DESCRIPTION

DVD-DUAL RECORDING RF IC: MT1816E (U513)



DVD DUAL OPTICAL DISK CONTROLLER: MT1818E (U507)



Ref. No	Parts No.	Description	QTY
D5,6,7,8,10,11,12,13,14,15 16 X7.5MM (J1,3,4,5,6,7,8, 10,12,14,15,16,23,24,VCC1 ,VCC2) 4 X 10 MM (J17,28,29,GND2) 5 X 5 MM (J19,20,21,30,GND1)	AI-K466UB-GE-001	K466UB (AI) CONT/POWER BD. CHASSIS ASSY (IC MT8105GE+SONY KWM- 222AAA)	1
	AI-04661-700	K466 (AI) CONTROL BOARD CHASSIS ASSY	1
	001-04661-700	K466 CONTROL P.C.B.(94HB) (1 LAYER) (47.5*400*1.6)MM	1
	004-94148-400	SW. DIODE IN-4148 AXIAL TAPE 52MM	10
	038-06000-000	SOLID WIRE (DIA. 0.6MM)	0.002 74
	AI-04930-401	K493 (AI) POWER BOARD CHASSIS ASSY	1
	001-04930-401	K493 POWER SUPPLY P.C.B. (94V0) (202*72*1.6)MM	1
	004-90056-212	ZENER DIODE MTZJ5.6B (ROHM) 5.6V 1/2W AXIAL 52MM TAPE & REEL	1
	004-90150-212	ZENER DIODE 15V 1/2W AXIAL TAPE 52MM REEL	1
	004-94148-400	SW. DIODE IN-4148 AXIAL TAPE 52MM	2
D210	005-13105-314	RESISTOR 1 M +-5% 1/4W AXIAL TAPE 52MM	1
D103	038-06000-000	SOLID WIRE (DIA. 0.6MM)	0.001
D104,209	HS-K466UB-GY-320	K466UB H/S "MEMOREX" BD. W/COSMETIC L.GREY 429C COLOR (48 KEY)	1
R101	001-04930-710	K493 REMOTE CONTROL P.C.B. (94HB) T=1.2MM (48 KEY)	1
IC1	002-02222-150	IC PT2222-002 (PTC)	1
Q1	003-08050-393	TRANSISTOR 8050C (KEC)	1
D1	004-01122-600	INFRARED EMITTING DIODE EL-1L2	1

Ref. No	Parts No.	Description	QTY	
R1	005-10109-314	RESISTOR 1 OHM +-5% 1/4W	1	
C2,3	006-10201-250	CERAMIC CAP 200 PF +-5% 50V	2	
C1	009-10476C510	ELECT CAP 47 UF +80%-20% 10V (PIN LENGTH 9MM)	1	
X1	028-00455-011	CERAMIC FILTER ZTB455E (MEC) (2 PINS)	1	
	041-02623-002	T262 HANDSET BATTERY SPRING (+,-)	1	
	041-03531-002	N353 HADSET BATTERY PLATE (+)	1	
	041-03532-002	N353 HANDSET BATTERY SPRING (-)	1	
	048-23530-008	K493 H/S CONTACT RUBBER W/D.GY 430C/BLUE 647C/RED 032C/WHITE SK.	1	
	103-03531-2320	K466UB H/S TOP CAB."MEMOREX" (L.GY 429C) W/R.186C/BLK./WH.SK. (UL) (48 KEY)	1	
	104-03530-0784	N353M HANDSET BOTTOM CAB. (L.GREY 429C)	1	
	111-03530-0784	N353M HANDSET BATT. DOOR (L.GREY 429C)	1	
	K466U-CASING	K466U CAISNG ASSY (FOR UL)	1	
	125-04661-101	T466 POWER PCB PC COVER PLATE (T=0.5MM) (110*37*0.5)MM PC CUT SHEET	1	
FOR POWER P.C.B	125-04661-101	T466 POWER PCB PC COVER PLATE (T=0.5MM) (115*74*0.5)MM PC CUT SHEET	1	
FOR POWER PCB	X 5	130-04662-001	T466B PCB POST	5
FOR MPEG PCB		130-04662-002	T466B MPEG PCB POST	4
FOR SC PCB		130-04662-003	T466B SCART PCB POST	2
		133-04663-108	T466B FRONT MTG. BRACKET (IRON T=0.8)MM	1
		133-04663-158	T466B TOP BRACKET (IRON T=0.8)MM	1

PARTS LIST

Ref. No	Parts No.	Description	QTY
FOR DVD-L	133-04663-311	T466B DVD BRACKET 'L'	1
FOR DVD-R	133-04663-312	T466B DVD BRACKET 'R'	1
	133-04933-108	K493 FRONT MTG. BRACKET (IRON T=0.8)MM	1
FOR MPEG PCB	136-11508-200	RUBBER 15 X 8 X 20MM (W/ONE SIDE TAPE)	2
FOR MPEG PCB	136-11803-350	RUBBER 18 X 3 X 35MM (W/ONE SIDE TAPE)	1
FOR BOTTOM CAB.	136-80060-180	RUBBER FOOT (DIA.18X6MM)(TRANS.)W/O TAPE	1
FOR H/S	144-12006-101	SCREW 2X6 RT	1
FOR CAB/REAR PLT	144-53004-201	SCREW 3X4 STB (TB)	3
FOR P25 BKT DVD 'L' X 3	144-53006-201	SCREW 3X6 STB (TB)	25
FOR P26 BKT DVD 'R' X 3		(BBZ30P060FMC)	
FOR CAB X 9			
FOR FRONT CAB/TOP CAB X 5			
FOR MAIN PCB X 2			
FOR JACK/REAR PL X 3			
FOR DISPLAY PC X 7	144-53008-203	SCREW 3X8 STB (DOUBLE:T)	12
FOR JACK PCB X 5			
FOR TUNER BRACKET	144-53008-211	SCREW 3X8 STB (TB) BLACK	9
FOR RUBBER FOOT	144-53008-301	SCREW 3X8 STPW (TB)	4
FOR POWER PCB X 5	144-53010-201	SCREW 3X10 STB (TB)	7
FOR MAIN PCB X 2			
FOR OUTPUT PCB	144-53012-201	SCREW 3X12 STB	2
FOR DVD LOADER * 4	144-53014-201	SCREW 3X14 STB (TB)	4
FOR MPEG PCB	144-53016-201	SCREW 3X16 STB (TB)	4
FOR JACK PCB	145-11435-015	FIBER WASHER 3.5X14X1.5MM	2
	K466UB-C-0320	K466UB "MEMOREX MVDR2102" COSMETIC ASSY SP.SIL.SS9-1 COLOR (01-2 CH.)	1
	101-04660-1320-V	K466UB FRONT CAB."MEMOREX"(SP.SIL.SS9-1) (V2) W/D.GY 432C/RED 186C SK.	1
	112-04660-004	K466UB PANEL DOOR COVER (SP.SIL.SS9-1) W/D.GY 433C SK. (R1)	1

Ref. No	Parts No.	Description	QTY
	113-04660-013	T466B DVD DOOR (CHROME)(NATURAL/ABS)	1
	114-04660-005	K466UB DOOR LENS(CLEAR/PMMA) W/H.S.H.M./ BLACK/WHITE SK. (MEMOREX SK.) (R1)	1
	117-04660-003	K466UB DIS.LENS (CLEAR/PMMA) W/H.S.H.M./ BLK./T.R.106C/SEMI- T.WH/T.PUR./WHITE SK.	1
	129-04669-0800	T466B PLAY BUTTON COVER (BLACK,SP.ELETROPLATED EFFECT SIL)	1
	129-04669-1800	T466B POWER BUTTON COVER (BLACK,SP.ELETROPLATED EFFECT SIL)	1
	180-04663-056	T466B TOP CABINET (SP.SIL.SS8-7)	1
	180-04664-000	T466B BOTTOM CABINET	1
	180-04935-0320-001	K466UB M.REAR PLATE "MEMOREX MVDR2102" W/BLACK SK. (01-2 CH)	1
	K466UB-P-0320	K466UB "MEMOREX MVDR2102" PACKING (FOR UL) (01-2 CH.)	1
FOR PACKING	043-26152-513	3P RCA CABLE #26 1.5M (2 SIDE RCA PLUG) R/W/Y (LEOCO)	1
	K493-DVD-LOADER	K493 LOADER (SONY KWM- 222AAA) ASSY	1
MPEG BOARD TO DVD LOAD	025-10005-138	5P J.WIRE #26UL 150MM (2P 2MM) JST (ORANGE X 1/WHITE X 4)	1
	037-47201-504	50P FILM CABLE 4+192+4 UL (0.5MM PITCH)	1
	160-00222-000	DVD-RW MECHANISM SONY KWM-222AAA	1
	161-00220-001	DVD LOADER HC-220 (HENG CHAO)	1

PARTS LIST

Ref. No	Parts No.	Description	QTY
	K493-UL-WIRE	K493 UL WIRE ASSY	1
AVIO BOARD TO FRONT INPUT BOARD	025-10004-159	4P J.WIRE #26UL 400MM (2P 2MM) JST (ORANGE X 1/WHITE X 3)	1
AVIO BOARD TO FRONT INPUT BOARD	025-10005-139	5P J.WIRE #26UL 400MM (2P 2MM) JST (ORANGE X 1/WHITE X 4)	1
MPEG BOARD TO AVIO BOARD	025-10006-159	6P J.WIRE #26UL 100MM (2P 2MM) JST (ORANGE X 1/WHITE X 5)	1
POWER BOARD TO VFD BOARD	025-10006-160	6P J.WIRE #26UL 200MM (2P 2MM) JST (ORANGE X 1/WHITE X 5)	1
MPEG BOARD TO VFD BOARD	025-10007-041	7P J.WIRE #26UL 200MM (2P 2MM) JST (ORANGE X 1/WHITE X 6)	1
MPEG BOARD TO FRONT INPUT BOARD	025-10007-043	7P SHIELD WIRE #30UL 500MM (2P 2MM)JST W/GN/GND/BK/R/GND/GND (GD WIN)E050414-01	1
POWER BOARD TO AVIO BOARD	025-10008-094	8P J.WIRE #26UL 400MM (2P 2MM) JST (ORANGE X 1/WHITE X 7)	1
POWER BOARD TO MPEG BOARD	025-10009-047	9P #22UL J.WIRE 500MM (2P 2MM) 9P+4P+5P JST*3(ORANGE*1+WHITE*3/RANGE*1+WHITE*4)	1
MPEG BOARD TO AVIO BOARD	025-10011-033	11P J.WIRE #26UL 100MM (2P 2MM) JST (ORANGE X 1/WHITE X 10)	1
MPEG BOARD TO AVIO BOARD	025-10012-030	12P J.WIRE #26UL 200MM (2P 2MM) JST (ORANGE X 1/WHITE X 11)	1
MPEG BOARD TO AVIO BOARD	025-10014-012	14P J.WIRE #26UL 150MM (2P 2MM) JST (ORANGE X 1/WHITE X 13)	1
	MI-K466UB-GE-001	K466UB (MI) MAIN/CONT/POWER/AVIO BD.ASSY (IC MT8105GE+SONY	1

Ref. No	Parts No.	Description	QTY
		KWM-222AAA)	
	MI-04661-700	K466 (MI) CONTROL BOARD CHASSIS ASSY	1
D31	004-05818-400	SW. DIODE IN-5818	1
C2,13	009-10476-410	ELECT CAP 47 UF +-20% 10V	2
C8	009-10477-410	ELECT CAP 470 UF +-20% 10V	1
L8,9,10	015-00027-007	AXIAL INDUCTOR 2.7 UH	3
K4,5,6,7,8,9,17,18,19,20	020-31100-173	TACT SWITCH TS062V1-A50C (DELTA)	10
CN2	025-20004-202	4P WAFER V-TYPE (2MM PITCH) JST (B4B-PH-K-S)	1
CN3	025-20005-201	5P WAFER V-TYPE (2MM PITCH) JST	1
CN5	025-20006-102	6P WAFER H-TYPE (2MM PITCH) JST	1
CN6	025-20007-103	7P WAFER H-TYPE (2MM PITCH) JST	1
CN1	025-20007-201	7P WAFER V-TYPE (2MM PITCH) MOLEX	1
JK1	046-20300-006	BT941 3P RCA JACK H-PCB-TYPE (Y/W/R) RS-314-04 (DRAGON CITY)	1
JK2	046-50100-002	S.VIDEO SOCKET MD-121 (1P) (DRAGON)	1
JK3	046-80400-001	T466B 4P CONNECTOR V-TYPE IEEE 1394 (SCI131R4FTB0000) (DRAGON CITY)	1
VFD1	049-20123-001	VACUUM FLUORESCENT DISPLAY VFD20-1214F (BOE) GREEN/REDDISH QRANGE COLOR	1
Y1	052-32768-000	CRYSTAL : 32.768KHZ FUNDAMENTAL +-30 PPM	1
FOR SENSOR	061-00138-005	INFRARED REMOTE CONTROL RECEIVER MODULE HT138BV3 (MOBICON) FO=38KHZ;VS=3 VOLT.	1
	136-21004-100	RUBBER 10X10X4MM W/TWO SIDE TAPE	3

PARTS LIST

Ref. No	Parts No.	Description	QTY
	MI-04930-101-GE	K466UB (MI) MAIN BOARD CHASSIS ASSY	1
D7,8,17,20	004-04148-400	SW. DIODE IN-4148	1
D21	004-05818-400	SW. DIODE IN-5818	1
C16,20,23,27,83,103,104,141,158,159,184,185,186,635,636, CE18,34,505,527	009-10106C516	ELECT CAP 10 UF +80%-20% 16V (PIN LENGTH 9MM)	19
CE525,526	009-10226-510	ELECT CAP 22 UF +80%-20% 10V	2
CE4,9,15,503,507	009-10227-510	ELECT CAP 220 UF +80%-20% 10V	5
C136,CE30,513,515,519,520,522,CT2,6	009-10476-510	ELECT CAP 47 UF +80%-20% 10V	9
CE521,523,524	009-10476-516	ELECT CAP 47 UF +80% -20% 16V	3
USB1,PWR3,J14	025-20004-202	4P WAFER V-TYPE (2MM PITCH) JST (B4B-PH-K-S)	3
J3	025-20004-205	4P WAFER V-TYPE (2.5MM PITCH) JST	1
J15,PWR2	025-20005-201	5P WAFER V-TYPE (2MM PITCH) JST	2
J11	025-20006-201	6P WAFER V-TYPE (2MM PITCH) JST	1
J19	025-20006-404	6P*2 DUAL ROW S-TYPE (2.54MM PITCH) W/GOLD PLATED	1
FW1,J4	025-20007-203	7P WAFER V-TYPE (2MM PITCH) JST	2
J12	025-20011-202	11P WAFER V-TYPE (2MM PITCH) JST	1
J16	025-20012-202	12P WAFER V-TYPE (2MM PITCH) JST	1
J17	025-20014-201	14P WAFER V-TYPE (2MM PITCH) JST	1
L1,3,5,24,29,39,41,46,47,51,52,53,54,55 , FB5,7	027-00000-004	FERRITE BEAT CORE (RH-3.5X6X1.0) (COILS NO.: 707866) AXIAL TYPE	16
CE36	047-20334-505-001	DYNACAP 0.33 F +80%-20% 5.5V (ELNA) (-25~+70 DEGREE) (UNLEADED) DX-5R5V334U	1

Ref. No	Parts No.	Description	QTY
Y5	052-24576-001	CRYSTAL:24.576 MHZ HC49S-24.576M1630F(2P) (MEC) +-30 PPM;16 PF;FUNDAMENTAL	1
Y2	052-27000-006	CRYSTAL:27.0 MHZ HC-49S (2P) (MEC) +-30 PPM FUNDAMENTAL	1
Y1	052-32768-002	CRYSTAL:32.768 MHZ DT38-32.768K12.520F (2P) (MEC) +-20 PPM;12.5 PF;FUNDAMENTAL	1
Y4	052-33868-006	CRYSTAL:33.8688 MHZ HC49S +-30PPM;20PF 2P (MEC) HC49S-33.8688M2030F	1
FOR U2	148-04590-220	M459S HEATSINK W/M3 HI-TECH TAPE (22.5*22.5*6.2)MM (AL. T=2MM)	1
	MI-04930-401	K493 (MI) POWER BOARD CHASSIS ASSY	1
IC201	002-01221-550	IC PQ12RD21 (SHARP) SMT	1
Q201	003-00006-640	TRANSISTOR 30N06 (FAIRCHILD)	1
Q101	003-00060-642	TRANSISTOR SSS4N60B T0220F (FAIRCHILD)	1
IC202	003-00431-600	TRANSISTOR NPN TL431AC LPR TO-92(TEXAS INSTRUMENT)	1
Q205	003-01317-040	TRANSISTOR 2SA 1317	1
Q203	003-02274-040	TRANSISTOR 2SC 2274	1
Q102,204	003-03330-040	TRANSISTOR 2SC 3330-T-AC	2
D204,205,206,212	004-00033-300	RECTIFIER BYD33D (PHILIPS)	4
D102	004-00033-301	RECTIFIER BYD33J (PHILIPS)	1
D201	004-00064-300	RECTIFIERS SF64 (TSC)	1
D101	004-00206-300	BRIDGE RECITIER KBP206	1
D202	004-00802-300	RECTIFIER SFA802 (TSC)	1
IC102	004-01010-601	PHOTO COUPLER DIODE K1010 (COSMOS)	1
D203	004-05822-300	RECTIFIER DIODE IN5822	1
R107	005-10104-314	RESISTOR 100 K +-5% 1/4W	1
R106	005-10109-311	RESISTOR 1 OHM +-5% 1W	1
R230	005-10470-311	RESISTOR 47 OHM +-5% 1W	1
R102	005-10473-321	RESISTOR 47 K +-5% 2W	1

PARTS LIST

Ref. No	Parts No.	Description	QTY
R229	005-40220-314	FUSE RESISTOR 22 OHM +-5% 1/4W	1
C104	006-10103-310	CERAMIC CAP 0.01 UF +-10% 1000V	1
C107,108,110,114,115	006-13471-404	CERAMIC CAP 470 PF +-20% 250V (Y1)	5
C102,111	008-15224-308	METAL POLYESTER FILM CAP 0.22 UF +-10% 275V RADIAL TAPE	2
C203,223	009-15107-410	ELECT CAP 100 UF +-20% 10V (105 DEG.)	2
C106,212,213,225,226	009-15107-450	ELECT CAP 100UF +-20% 50V 105C DEGREE	5
C205,206,208,220,221	009-15108-416	ELECT CAP 1000 UF +-20% 16V 105C DEGREE	5
C202	009-15108-425	ELECT CAP 1000 UF +-20% 25V 105 DEGREE	1
C227	009-15224-450	ELECT CAP 0.22 UF +-20% 50V 105 DEGREE	1
C215,231	009-15227-416	ELECT CAP 220 UF +-20% 16V 105 DEGREE	2
C210,211	009-15227-425	ELECT CAP 220 UF +-20% 25V 105 DEGREE	2
C217	009-15228-425	ELECT CAP 2200 UF +-20% 25V 105 DEGREE	1
C109	009-15476-550	ELECT CAP 47 UF +80%-20% 50V 105C DEGREE	1
C218,219	009-15477-410	ELECT CAP 470 UF +-20% 10V 105 DEGREE	2
C222	009-15477-416	ELECT CAP 470 UF +-20% 16V 105 DEGREE	1
C103	009-15686-406	ELECT CAP 68 UF +-20% 400V 105 DEGREE (DIA.18 X 32.5MM)	1
L203	015-00033-106	INDUCTOR 3.3 UH,3A (RADIAL TYPE)	1
L204	015-00102-001	CHOKE COIL 1 MH	1
L206	015-00200-001	CHOKE COILS 20 UH DIA.6X8 (CW-68)	1
L103	015-00303-008	AC LINE FILTER 30MH	1

Ref. No	Parts No.	Description	QTY
		(CLF2327S-303Y0R6) (COILS)	
L202,205	015-00200-006	FILTER CHOKE COIL 20 UH (RADIAL TYPE) (COILS NO.: CR4P-867624)	2
T101	018-04932-400	SWITCHING X'FORMER CT28LEC-X60V009 PIN TYPE (XIAMEN COILS)	1
CN101	025-20002-403	2P HEADER S-TYPE (10MM PITCH) (L1086P0203T)	1
CN201	025-20006-201	6P WAFER V-TYPE (2MM PITCH) JST	1
CN205	025-20008-203	8P WAFER V-TYPE (2MM PITCH) JST	1
CN202	025-20009-202	9P WAFER V-TYPE (2MM PITCH) JST	1
FOR FRONT MTG BRACKET TO MH1	031-10101-040	JUMPER WIRE AWG22UL 100MM BLACK	1
FOR PCB TO GROUD * 3	039-30012-000	SOLDERING LUG 12MM	4
FOR FRONT MTG BRACKET OT J201 * 1			
F101	050-05020-209	2A/250V GLASS FUSE 5X20 TIME-LAG BEL/5ST2 UL/CSA/SEMKO/VDE/IMQ/CE APP.	1
FOR F101	133-00002-205	FUSE HOLDER (NO.:FC-001-N)	2
FOR D203 HEATSINK	144-32608-201	SCREW 2.6X8 STB (M)	1
FOR D203	148-01720-200	T172E HEATSINK	1
	MI-04930-901	K493U (MI) AVIO BOARD CHASSIS ASSY (FOR UL)	1
D30	004-05818-400	SW. DIODE IN-5818	1
C87,88	009-10104-450	ELECT CAP 0.1 UF +-20% 50V	2
C61,62,63,66,67,73,81, CX4,CY4	009-10106-410	ELECT CAP 10 UF +-20% 10V	9
C37	009-10107-410	ELECT CAP 100 UF +-20% 10V	1
C36,46,125,127	009-10107-416	ELECT CAP 100 UF +-20% 16V	4
C1,3,59,60	009-10225-510	ELECT CAP 2.2UF +80%-20% 10V	4
C150	009-10477-410	ELECT CAP 470 UF +-20% 10V	1
C53,54,55,56,57,58,91,123, 142143,144, 145,146,147, CB4, CC4,CD4,CE4,CF4,	009-10227-410	ELECT CAP 220 UF +-20% 10V	20

PARTS LIST

Ref. No	Parts No.	Description	QTY
CG4			
L6	015-00027-007	AXIAL INDUCTOR 2.7 UH	1
L3	015-00221-006-002	CHOKE COIL 220 UH +-10% (RADIAL TYPE) COILS NO.: CW57-221K	1
L4,5	015-00331-007	AXIAL INDUCTOR 330 UH +-10% (COILS NO.: CEC-331K)	2
L2	015-00470-006-001	CHOKE COIL 47 UH +-10% (RADIAL TYPE) COILS NO.: CW57-470K	1
T1	016-24914-103	OSC 7MM OSK6-864914 BLACK (COILS)	1
J4	025-20004-202	4P WAFER V-TYPE (2MM PITCH) JST(B4B-PH-K-S)	1
J5	025-20005-201	5P WAFER V-TYPE (2MM PITCH) JST	1
J1	025-20006-201	6P WAFER V-TYPE (2MM PITCH) JST	1
J20	025-20008-203	8P WAFER V-TYPE (2MM PITCH) JST	1
J3	025-20011-202	11P WAFER V-TYPE (2MM PITCH) JST	1
J17	025-20012-202	12P WAFER V-TYPE (2MM PITCH) JST	1
J19	025-20014-201	14P WAFER V-TYPE (2MM PITCH) JST	1
J11	046-20100-027	RCA JACK RS-145C/OR (1P) (ORANGE) PCB-TYPE (DRAGON)	1
J10,14	046-20200-042	RCA JACK RS-233-04 (2P) (R/W) PCB V-TYPE(DRAGON)	2
J9	046-20300-017	RCA JACK RS-330-16 (3P) (G/B/R) PCB-TYPE (DRAGON)	1
J2,13	046-50200-005	S.VEDIO+RCA JACK MDW-111/Y (YELLOW) PCB V-TYPE (DRAGON CITY)	1
Y2	052-18432-001	CRYSTAL: 18.432MHZ FUNDAMENTAL +-20% PPM	1
U11	061-00553-001	FIBER OPTIC MODULE GP1FA553TZ (SHARP)	1

Ref. No	Parts No.	Description	QTY
T11,2	061-07305-001	VIDEO TUNER UVS7305VM-S (M/N SYSTEM) NTSC (USA VERSION) (JINXIN)	1
23	SMT-K466UB-GE-001	K466UB (SMT) MAIN/CONT/PWR/AVIO BD. ASSY (IC MT8105GE+SONY KWM-222AAA)	1
	SMT-04661-700	K466 (SMT) CONTROL BOARD CHASSIS ASSY	1
U2	002-09164-923	IC RT9164A-CG (RICHTEK) SOT-223 (SMT) 1A ADJUSTABLE LOW DROPOUT VOL. REGULATOR	1
U1	002-58862-001-121	IC LC588620B (TOP GEAR) QFP-52L (SMT) VFD MICROCOMPUTER IC	1
Q1	003-22412-144	CHIP TRANSISTOR 2SC2412K(S)-TLB (ROHM) (SMT3) (50V, 0.15A, HFE 270-560)	1
D27,28,29,30	004-80355-400	SW. DIODE 1SS355-TRB (ROHM) SMT	4
R15	005-52000-301	CHIP RESISTOR 0 OHM +-5% (1608) (MCR03EZHZJ000)	1
R4,7	005-52101-301	CHIP RESISTOR 100 OHM +-5% (1608) (MCR03EZHZJ101)	2
R6,12	005-52103-301	CHIP RESISTOR 10 K +-5% (1608) (MCR03EZHZJ103)	2
R11,13	005-52104-301	CHIP RESISTOR 100 K +-5% (1608) (MCR03EZHZJ104)	2
R19	005-52121-301	CHIP RESISTOR 120 OHM +-5% (1608)	1
R20	005-52221-301	CHIP RESISTOR 220 OHM +-5% (1608) (MCR03EZHZJ221)	1
R2,10	005-52222-301	CHIP RESISTOR 2.2 K +-5% (1608) (MCH03EZHZJ222)	2
R14	005-52274-301	CHIP RESISTOR 270 K +-5% (1608)	1
R5	005-52474-301	CHIP RESISTOR 470 K +-5% (1608) (MCR03EZHZJ474)	1

PARTS LIST

Ref. No	Parts No.	Description	QTY
C26,27,28,29,129	006-72101-350	CERAMIC CHIP CAP 100 PF +-10% 50V (1608)	5
C3	006-72103-350	CERAMIC CHIP CAP 0.01 UF +-10% 50V(1608) (MCH185CN103KK)	1
C1,9,10,12,14	006-72104-550	CERAMIC CHIP CAP 0.1 UF +80%-20% 50V (1608)	5
C4,5	006-72180-250	CERAMIC CHIP CAP 18 PF +-5% 50V (1608)	2
	SMT-04930-101-GE	K466UB (SMT) MAIN BOARD CHASSIS ASSY	1
	001-04930-101	K493 MAIN P.C.B.(94V0) (4 LAYER) (120*50*1.6)MM	1
U17	002-00411-110	IC TSB41AB1PHP (T.I.) SMT	1
U513	002-01816-850	IC MT1816E (MEDIATEK) LQFP-128 (SMT) DVD-DUAL RECORDING RF IC	1
U507	002-01818-850	IC MT1818E (MEDIATEK) LQFP-216 (SMT) DVD DUAL OPTICAL DISK CONTROLLER IC	1
U3	002-02416-450	IC AT24C16AN-10SI-2.7V (ATMEL) SMT EEPROM IC	1
U517	002-04340-410	IC CS4340 (CRYSTAL)	1
U515	002-05962-140	IC BA5962FVM (ROHM) MOSP8 (SMT) POWER DIVER FOR CD PLAYER IC	1
U514	002-07902-140	IC BD7902CFS (ROHM) SSOP-A54 (SMT) 6CH POWER DRIVER FOR CD-ROM, DVD-ROM IC	1
U2	002-08105-850	IC MT8105GE (MEDIATEK) LQFP-256 (SMT) (5.1 CH/WMA/USB/VCR+)	1
U14	002-08738-680	IC WM8738 (SO-14 PACKAGE) WOLFSON (SMT) 24 BIT STEREO ADC	1
U516	002-09164-922	IC RT9164A-33CG (RICHTEK) SOT-223 (SMT) 1A/3.3V FIXED POSITIVE VOLTAGE	1

Ref. No	Parts No.	Description	QTY
		REGULATOR	
U1	002-09164-923	IC RT9164A-CG (RICHTEK) SOT-223 (SMT) 1A ADJUSTABLE LOW DROPOUT VOL. REGULATOR	1
U503	002-09166-923	IC RT-9166/A-25CXL (RICHTEK)SOT-89 L SMT 2.5V/500MA	1
U510	002-26800-470	IC MX26LV800BTC-55 (MXIC) TSOP48 (SMT) 8M FLASH MEMORY IC	1
U508	002-42161-580	IC IS42S16100A1-6T (ISSI) TSOP50 (SMT) 1MX16 (16M) SDRAM IC	1
U500,502	002-42168-930	IC IC42S16800-7T (ICSI) 54-PIN TSOP-2 3.3V; 128MBIT SDRAM IC	2
U5	002-49162-450	IC AT49BV162A-70TI (ATMEL) TSOP-48 16M FLASH MEMORY IC (SMT)	1
U512	002-93661-450	IC AT93C66-10SI-2.7 (ATMEL) JEDEC SOIC 8 2.7V/4K BIT THREE-WIRE SERIAL EEPROMS IC	1
R613,614,616	005-50109-301	CHIP RESISTOR 1 OHM +-5% (2012) (MCR10EZHZJ109)	3
R626,628,629,630	005-50229-301	CHIP RESISTOR 2.2 OHM +-5% (2012) (MCR10EZHZJ229)	4
R10,51,57,60,65,211,212, 213, 214,534,580, 581,675, 678,681, 702,703,704	005-52000-301	CHIP RESISTOR 0 OHM +-5% (1608) (MCR03EZHZJ000)	18
R23	005-52100-301	CHIP RESISTOR 10 OHM +-5% (1608) (MCR03EZHZJ100)	1
R37,38,40,78,389,609,612, 686,687,688	005-52101-301	CHIP RESISTOR 100 OHM +-5% (1608) (MCR03EZHZJ101)	10
R76,137,138,152,677	005-52102-301	CHIP RESISTOR 1 K +-5% (1608) (MCH03EZHZJ102)	5
R13,26,27,30,32,33,35,39, 146,391,541,542, 543,545, 547,548, 550,555,562,564, 694,695, 697, 698	005-52103-301	CHIP RESISTOR 10 K +-5% (1608) (MCR03EZHZJ103)	24

PARTS LIST

Ref. No	Parts No.	Description	QTY
R28,533,623	005-52104-301	CHIP RESISTOR 100 K +-5% (1608) (MCR03EZHZJ104)	3
R25	005-52105-301	CHIP RESISTOR 1 M +-5% (1608) (MCR03EZHZJ105)	1
R12	005-52121-301	CHIP RESISTOR 120 OHM +-5% (1608)	1
R19	005-52151-301	CHIP RESISTOR 150 OHM +-5% (1608) (MCR03EZHZJ151)	1
R506	005-52181-301	CHIP RESISTOR 180 OHM +-5% (1608) (MCR03EZHZJ181)	1
R537	005-52183-301	CHIP RESISTOR 18 K +-5% (1608) (MCR03EZHZJ183)	1
R17	005-52202-101	CHIP RESISTOR 2 K +-1% (1608)	1
R544	005-52203-301	CHIP RESISTOR 20 K +-5% (1608)	1
R546,549,551,559	005-52220-301	CHIP RESISTOR 22 OHM +-5% (1608) (MCR03EZHZJ220)	4
R7,9	005-52221-301	CHIP RESISTOR 220 OHM +-5% (1608) (MCR03EZHZJ221)	2
R11	005-52271-301	CHIP RESISTOR 270 OHM +-5% (1608)	1
R610,611,631,632	005-52273-301	CHIP RESISTOR 27 K +-5% (1608) (MCR03EZHZJ273)	4
R14,15,16,18,93,94,96,130,132,134,168,169,511,557,558,560,690,691,692,693	005-52330-301	CHIP RESISTOR 33 OHM +-5% (1608) (MCH03EZHZJ330)	20
R160	005-52331-301	CHIP RESISTOR 330 OHM +-5% (1608) (MCR03EZHZJ331)	1
R582	005-52333-301	CHIP RESISTOR 33 K +-5% (1608) (MCR03EZHZJ333)	1
R531	005-52393-301	CHIP RESISTOR 39 K +-5% (1608) (MCR03EZHZJ393)	1
R178	005-52472-301	CHIP RESISTOR 4.7 K +-5% (1608) (MCR03EZHZJ472)	1
R31,535,538,683,684,696	005-52479-301	CHIP RESISTOR 4.7 OHM +-5% (1608) (MCR03EZHZJ479)	6
R5,8	005-52512-301	CHIP RESISTOR 5.1 K +-5% (1608)	2

Ref. No	Parts No.	Description	QTY
R17,3,4,25	005-52560-101	CHIP METAL RESISTOR 56 OHM +-1% (1608)	4
R77	005-52562-301	CHIP RESISTOR 5.6K +-5% (1608)	1
R135	005-526341-101	CHIP RESISTOR 6.34 K 1/16W +-1% (1608) (RC-03K6341FT) FUNGHUA	1
R565,566	005-52754-301	CHIP RESISTOR 750 K +-5% (1608)	2
R540	005-52822-301	CHIP RESISTOR 8.2 K +-5% (1608) (MCR03EZHZJ822)	1
RN12,13	005-53101-302	CHIP RESISTOR (MULTIPLE) 100 OHM +-5% (1608) X 4 (YCN16-4R101)	2
RN524,525	005-53103-301	CHIP RESISTOR (MULTIPLE) 10 K +-5% (1608) X 4 (RCML08W103JB) ARRAY	2
RN511,532	005-53330-301	CHIP RESISTOR (MULTIPLE) 33 OHM +-5% (1608) X 4	2
C36,517	006-72101-250	CERAMIC CHIP CAP 100 PF +-5% 50V (1608)	2
C512,513,550,551	006-72102-350	CERAMIC CHIP CAP 0.001 UF +-10% 50V (1608) (MCH185C102KK)	4
C108,109,111,113,119,121,123,519,527,548	006-72103-350	CERAMIC CHIP CAP 0.01 UF +-10% 50V (1608) (MCH185CN103KK)	10
C2,3,4,5,6,127,518,530,538,539,541,542,543,558,562,568,640,CB682	006-72105-550	CERAMIC CHIP CAP 1 UF +-80%-20% 50V(1608)	18
C10,508,509	006-72150-250	CERAMIC CHIP CAP 15 PF +-5% 50V (1608)	3
C524,525	006-72151-250	CERAMIC CHIP CAP 150 PF +-5% 50V (1608)	2
C560,561,566,567	006-72152-350	CERAMIC CHIP CAP 0.0015 UF +-10% 50V (1608)	4
C544,545,546,554,556,565	006-72153-350	CERAMIC CHIP CAP 0.015 UF +-10% 50V (1608)	6
C637,638	006-72160-250	CERAMIC CHIP CAP 16 PF +-5% 50V (1608)	2

PARTS LIST

Ref. No	Parts No.	Description	QTY
C9,15,17,19,21,24,26,28,30,31,32,33,35, 37,38,39,42,72,75, 82,84, 110,112,118,120,122, 124,125,140,510,520,521,528,540,547,553,559,563, CB1,2,3,4,5,6,7,15,16,18,19,20,21,22,23, 26,28,29,30,31,32, 33,34,35,36,41,45,67,68,70, 72,77,78,79,83,97,523,527,529,530,532,554,560,561, 592,594, 597,603,604,605,606,607,608, 609,610,611,612,613,614,615,616,617, 618,619,620,621,622, 623,624,625,629, 630,631,632, 633,634,637,638,640,641, 642, 644,645,646,647,648,649,650,651, 652,653,654,655,656,657, 660,661,662, 664,665,666,667,668,669,670,671,672, 673,675, 676,677,678,679,680,681,683, 684,685,686 C40,41	006-72104-550	CERAMIC CHIP CAP 0.1 UF +80%-20% 50V(1608)	157
C1	006-72200-250	CERAMIC CHIP CAP 20 PF +-5% 50V (1608) (MCH185F200JK)	2
C526,529	006-72221-250	CERAMIC CHIP CAP 220 PF +-5% 50V (1608)	1
C137,139,155,157,160,161,511,515,534,571, 572,634 C43,44	006-72222-350	CERAMIC CHIP CAP 0.0022 UF +-10% 50V(1608) (MCH185C222KK)	2
C557,564,569	006-72225-316	CERAMIC CHIP CAP 2.2 UF +-10% 16V (1608)	12
C552	006-72270-250	CERAMIC CHIP CAP 27 PF +-5% 50V (1608)	2
	006-72332-350	CERAMIC CHIP CAP 0.0033 UF +-10% 50V (1608) (MCH185C332KK)	3
	006-72333-350	CERAMIC CHIP CAP 0.033 UF +-10% 50V(1608)	1

Ref. No	Parts No.	Description	QTY
C537	006-72471-250	CERAMIC CHIP CAP 470 PF +-5% 50V(1608) (MCH185A471JK)	1
C53,57,59,63,522,523,556	006-72473-350	CERAMIC CHIP CAP 0.047 UF +-10% 50V(1608) (MCH185C473KK)	7
C549	006-72682-350	CERAMIC CHIP CAP 0.0068 UF +-10% 50V(1608) (MCH185C682KK)	1
HA2	025-50017-103	17P H-TYPE SMT ZIF FFC/FPC UPSIDE CONN. (1MM) CF07171U0R0 (CVILUX) W/FLIP LOCK	1
HA1	025-50050-101	50P H-TYPE SMT ZIF FFC/FPC UPSIDE CONN. (0.5MM) CF20501U0R0 (CVILUX) W/FLIP LOCK	1
FB1,2,3,4,6,8,9,10,11,12,13,14	027-03601-001	CHIP BEAD BK-1608-HM601-T (1608) TAPE & REEL "TAIYO YUDEN"	12
	SMT-04930-401	K493 (SMT) POWER BOARD CHASSIS ASSY	1
	001-04930-401	K493 POWER SUPPLY P.C.B. (94V0) (202*72*1.6)MM	1
IC101	002-01207-001-134	IC NCP1207ADR2G (ON SEMICONDUCTOR)SOIC-8(PB-FREE) PWM CURRENT-MODE CONTROLLER IC	1
R104A,202A,203A,205A	005-52100-301	CHIP RESISTOR 10 OHM +-5% (1608) (MCR03EZHZ100)	4
R108A,210A,214A	005-52102-301	CHIP RESISTOR 1 K +-5% (1608) (MCH03EZHZ102)	3
R228A	005-52122-301	CHIP RESISTOR 1.2K +-5% (1608) (MCHR03EZHZ122)	1
R220A	005-52152-301	CHIP RESISTOR 1.5K +-5% (1608) (MCR03EZHZ152)	1
R222A	005-52154-301	CHIP RESISTOR 150 K +-5% (1608) (MCR03EZHZ154)	1
R201A	005-52220-301	CHIP RESISTOR 22 OHM +-5% (1608) (MCR03EZHZ220)	1
R219A	005-52222-301	CHIP RESISTOR 2.2 K +-5%	1

PARTS LIST

Ref. No	Parts No.	Description	QTY
		(1608) (MCH03EZHZJ222)	
R103A	005-52270-301	CHIP RESISTOR 27 OHM +-5% (1608)	1
R223A	005-52273-301	CHIP RESISTOR 27 K +-5% (1608) (MCR03EZHZJ273)	1
R211A	005-52302-301	CHIP RESISTOR 3 K +-5% (1608) (MCH03EZHZJ302)	1
R208A	005-52332-301	CHIP RESISTOR 3.3 K +-5% (1608) (MCR03EZHZJ332)	1
R109A	005-52333-301	CHIP RESISTOR 33 K +-5% (1608) (MCR03EZHZJ333)	1
R105A	005-52392-301	CHIP RESISTOR 3.9 K +-5% (1608)	1
R209A,225A	005-52432-301	CHIP RESISTOR 4.3 K +-5% (1608) (MCR03EZHZJ432)	2
R204A,206A,212A,224A,226A	005-52471-301	CHIP RESISTOR 470 OHM +-5% (1608)	5
R100A,213A,217A,218A	005-52473-301	CHIP RESISTOR 47 K +-5% (1608) (MCR03EZHZJ473)	4
R221A	005-52561-301	CHIP RESISTOR 560 OHM +-5% (1608) (MCH03EZHZJ561)	1
R207A	005-52681-301	CHIP RESISTOR 680 OHM +-5% (1608) (MCR03EZHZJ681)	1
R232A	005-52913-301	CHIP RESISTOR 91K +-5% (1608)	1
C204A,207A,214A	006-72102-350	CERAMIC CHIP CAP 0.001 UF +-10% 50V(1608) (MCH185C102KK)	3
C216A,224A,228A,229A,230A,233A,234A	006-72104-350	CERAMIC CHIP CAP 0.1 UF +-10% 50V (1608)	7
C116A,117A,201A	006-72471-350	CERAMIC CHIP CAP 470 PF +-10% 50V (1608)	3
	SMT-04930-901	K493U (SMT) AVIO BOARD CHASSIS ASSY(FOR UL)	1
	001-04930-901	K493 AVIO P.C.B. (DOUBLE LAYER) (94V0) (96.5*149.8*1.2)MM	1
U12	002-03425-100-141	IC MSP3425G-QG-B8-V3 (USA)(MICRONAS) SMT	1
U21,37	002-04052-141	IC BU4052BCF (ROHM) (SMT)	2
U39	002-04053-141	IC BU4053BCF (ROHM) SMT	1

Ref. No	Parts No.	Description	QTY
U110 15	002-04558-760	IC UTC4558 (YW) (SOP-8) SMT OP-AMP IC	2
QX1,QY1	003-20614-140	CHIP TRANSISTOR DTC614TK (SMT3) (ROHM) NPN DIGITAL TR. (BUILT-IN RESISTOR)	2
Q24,36	003-21037-142	CHIP TRANSISTOR 2SA1037AK(S)-TLB (ROHM) (SMT3) (-50V,-0.15A,HFE 270-560)	2
Q23,QB1,QC1,QD1,QE1,QF1,QG1	003-22412-144	CHIP TRANSISTOR 2SC2412K(S)-TLB (ROHM) (SMT3) (50V, 0.15A, HFE 270-560)	7
D1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16, 19,20,23,24,34,35, 36,37,38,39,42,43,46, 47,50, 51,54,55,58,59	004-80355-400	SW. DIODE 1SS355-TRB (ROHM) SMT	36
R29,37,38,96,100,118	005-52000-301	CHIP RESISTOR 0 OHM +-5% (1608) (MCR03EZHZJ000)	6
R9,22,23,30,RB3,RC3,RD3,RE3,RF3,RG3	005-52101-301	CHIP RESISTOR 100 OHM +-5% (1608) (MCR03EZHZJ101)	10
R116,121	005-52102-301	CHIP RESISTOR 1 K +-5% (1608) (MCH03EZHZJ102)	2
R7,33,34,89,91,107,109, RB1,2RC1,2,RD1,2, RE1,2, RF1,2, RG1,2,RX1,RY1, R5,8,18,19,20,21,115,117, 120,122,123,124, RX6,RY6	005-52103-301	CHIP RESISTOR 10 K +-5% (1608) (MCR03EZHZJ103)	21
R101	005-52104-301	CHIP RESISTOR 100 K +-5% (1608) (MCR03EZHZJ104)	14
	005-52105-301	CHIP RESISTOR 1 M +-5% (1608) (MCR03EZHZJ105)	1
R126,131,132,133,134,135	005-52151-101	CHIP RESISTOR 150 OHM +-1% (1608)	6
R6,149	005-52153-301	CHIP RESISTOR 15 K +-5% (1608) (MCR03EZHZJ153)	2
RX3,RY3	005-52203-301	CHIP RESISTOR 20 K +-5% (1608)	2
R1,13	005-52223-301	CHIP RESISTOR 22 K +-5% (1608) (MCR03EZHZJ223)	2
R15	005-52224-301	CHIP RESISTOR 220 K +-5% (1608) (MCR03EZHZJ224)	1

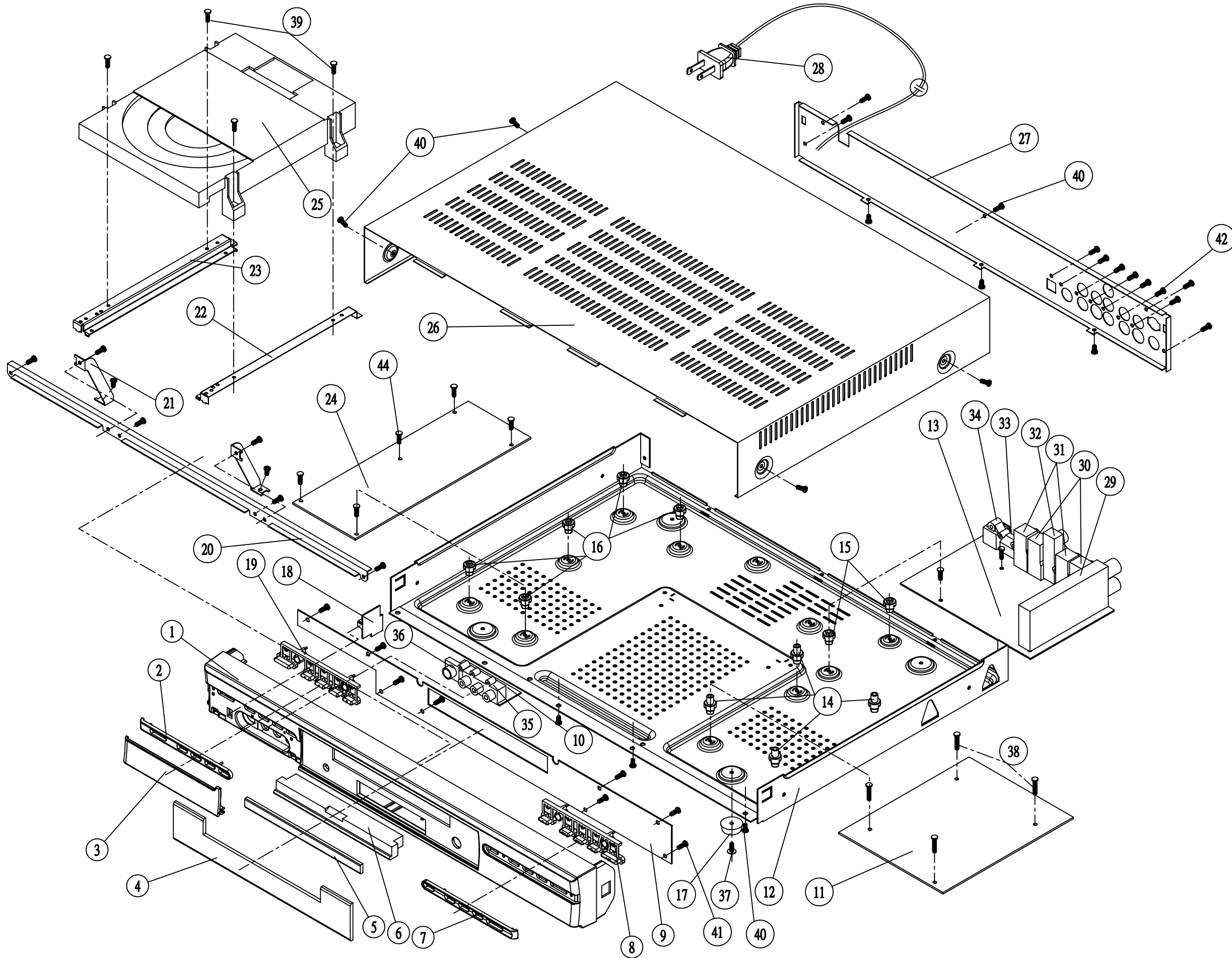
PARTS LIST

Ref. No	Parts No.	Description	QTY
R86,90,108,110	005-52273-301	CHIP RESISTOR 27 K +-5% (1608) (MCR03EZHZJ273)	4
RZ1	005-52330-301	CHIP RESISTOR 33 OHM +-5% (1608) (MCH03EZHZJ330)	1
R83	005-52332-301	CHIP RESISTOR 3.3 K +-5% (1608) (MCR03EZHZJ332)	1
R92,93,94,95,102,103,104,106	005-52334-301	CHIP RESISTOR 330 K +-5% (1608) (MCR03EZHZJ334)	8
R2	005-52470-301	CHIP RESISTOR 47 OHM +-5% (1608) (MCR03EZHZJ470)	1
RX4,RY4	005-52471-301	CHIP RESISTOR 470 OHM +-5% (1608)	2
RZ2	005-52680-301	CHIP RESISTOR 68 OHM +-5% (1608) (MCR03EZHZJ680)	1
R129,130, RX2,RY2	005-52682-301	CHIP RESISTOR 6.8K +-5% (1608) (MCR03EZHZJ682)	4
R26,27,28,98,99,114,127	005-52750-101	CHIP RESISTOR 75 OHM +-1% (1608)	7
R3,24,25	005-52820-301	CHIP RESISTOR 82 OHM +-5% (1608)	3
C31,32,33,34,35,82,90,134,135,136, 137,138,139,140,141	006-72101-250	CERAMIC CHIP CAP 100 PF +-5% 50V (1608)	15
CZ1	006-72102-350	CERAMIC CHIP CAP 0.001 UF +-10% 50V(1608) (MCH185C102KK)	1
C44,45,48,84,100,101,124,126,128,148,CZ3	006-72104-450	CERAMIC CHIP CAP 0.1 +-20% 50V (1608)	11
CX3,CY3	006-72151-250	CERAMIC CHIP CAP 150 PF +-5% 50V (1608)	2
C64,65,69,74,80	006-72152-350	CERAMIC CHIP CAP 0.0015 UF +-10% 50V(1608)	5
C85,86	006-72200-250	CERAMIC CHIP CAP 20 PF +-5% 50V(1608) (MCH185F200JK)	2
CZ4	006-72221-250	CERAMIC CHIP CAP 220 PF +-5% 50V (1608)	1
C71,72,75,83,89	006-72331-250	CERAMIC CHIP CAP 330 PF +-5% 50V (1608)	5
C76	006-72334-525	CERAMIC CHIP CAP 0.33 UF +-80%-20% 25V(1608)	1

Ref. No	Parts No.	Description	QTY
C71,72,75,83,89	006-72470-250	CERAMIC CHIP CAP 47 PF +-5% 50V(1608) (MCH185A470JK)	12
C70,79	006-72471-250	CERAMIC CHIP CAP 470 PF +-5% 50V(1608) (MCH185A471JK)	2
C77,78	006-72560-250	CERAMIC CHIP CAP 56 PF +-5% 50V (1068)	2
C93,94,99,102	006-72681-250	CERAMIC CHIP CAP 680 PF +-5% 50V (1608)	4
CX2,CY2	006-72821-350	CERAMIC CHIP CAP 820 PF +-10% 50V (1608)	2
LB2,LC2,LD2,LE1,LF1, LG2	015-00018-901	CHIP INDUCTOR 1.8 UH (0805) (COILS) CCSP0805FIR8J	6
	T466B-CHROME-KNOB	T466B CHROME KNOB ASSY	1
	128-04660-413	T466B PLAY KNOB (CHROME/ABS)	1
	128-04662-013	T466B POWER KNOB (CHROME/ABS)	1
	T466B-STD-13	T466B 120V UL APP. STANDARD ASSY(W/130-00000-007 AC PLUG PIN PROTECTOR)	1
	023-60040-301	AC CORD UL APP. 6' Y001-A183N2180170BS2 BUSHING+T-0010 PLOA+P11351B HOUSING(Y.C)	1

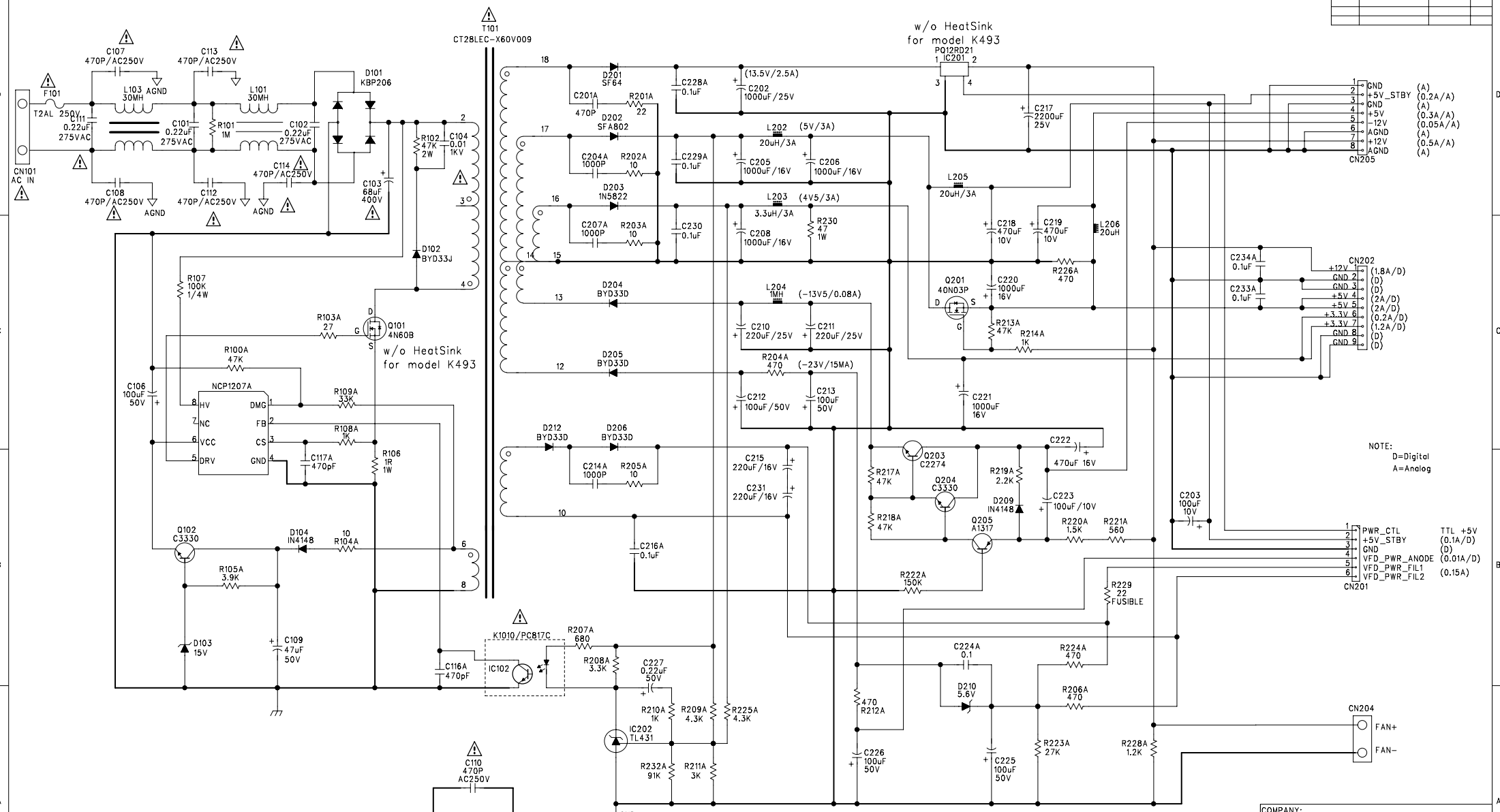
PARTS LIST

EXPLODED VIEW/PARTS LIST (CABINET)



NO.	DESCRIPTION
1	FRONT CABINET
2	POWER BUTTON COVER
3	PANEL DOOR COVER
4	DISPLAY LENS
5	DVD LENS
6	DVD DOOR
7	PLAY BUTTON COVER
8	PLAY KNOB
9	CONTROL P.C.B.
10	FRONT INPUT P.C.B.
11	MAIN P.C.B.
12	BOTTOM CABINET
13	AVIO P.C.B.
14	MPEG PCB POST
15	SCRAT PCB POST
16	PCB POST
17	RUBBER FOOT
18	DV P.C.B.
19	POWER KNOB
20	TOP BRACKET
21	FRONT MTG. BRACKET
22	DVD BRACKET 'R'
23	DVD BRACKET 'L'
24	POWER SUPPLY P.C.B.
25	DVD-RW MECHANISM
26	TOP CABINET
27	METAL REAR PLATE
28	AC CORD
29	VIDEO TUNER
30	S. VIDEO+RCA JACK
31	RCA JACK RS-233-04
32	RCA JACK RS-330-16
33	RCA JACK RS-145C/OR
34	FIBER OPTIC MODULE
35	BT941 3P RCA JACK
36	S.VIDEO SOCKET
37	SCREW 3X8 STPW
38	SCREW 3X16 STB
39	SCREW 3X14 STB
40	SCREW 3X6 STB
41	SCREW 3X8 STB
42	SCREW 3X8 STB BLACK

REVISION RECORD		
LTR	ECO NO:	APPROV DATE



Pin	Signal	Current
1	GND	(A)
2	+5V_STBY	(0.2A/A)
3	GND	(A)
4	+5V	(0.3A/A)
5	-12V	(0.05A/A)
6	AGND	(A)
7	+12V	(0.5A/A)
8	AGND	(A)
9	GND	(A)
10	+12V	(A)
11	GND	(A)
12	+12V	(A)
13	GND	(A)
14	+12V	(A)
15	GND	(A)
16	+12V	(A)
17	GND	(A)
18	+12V	(A)

NOTE:

D=Digital
A=Analog

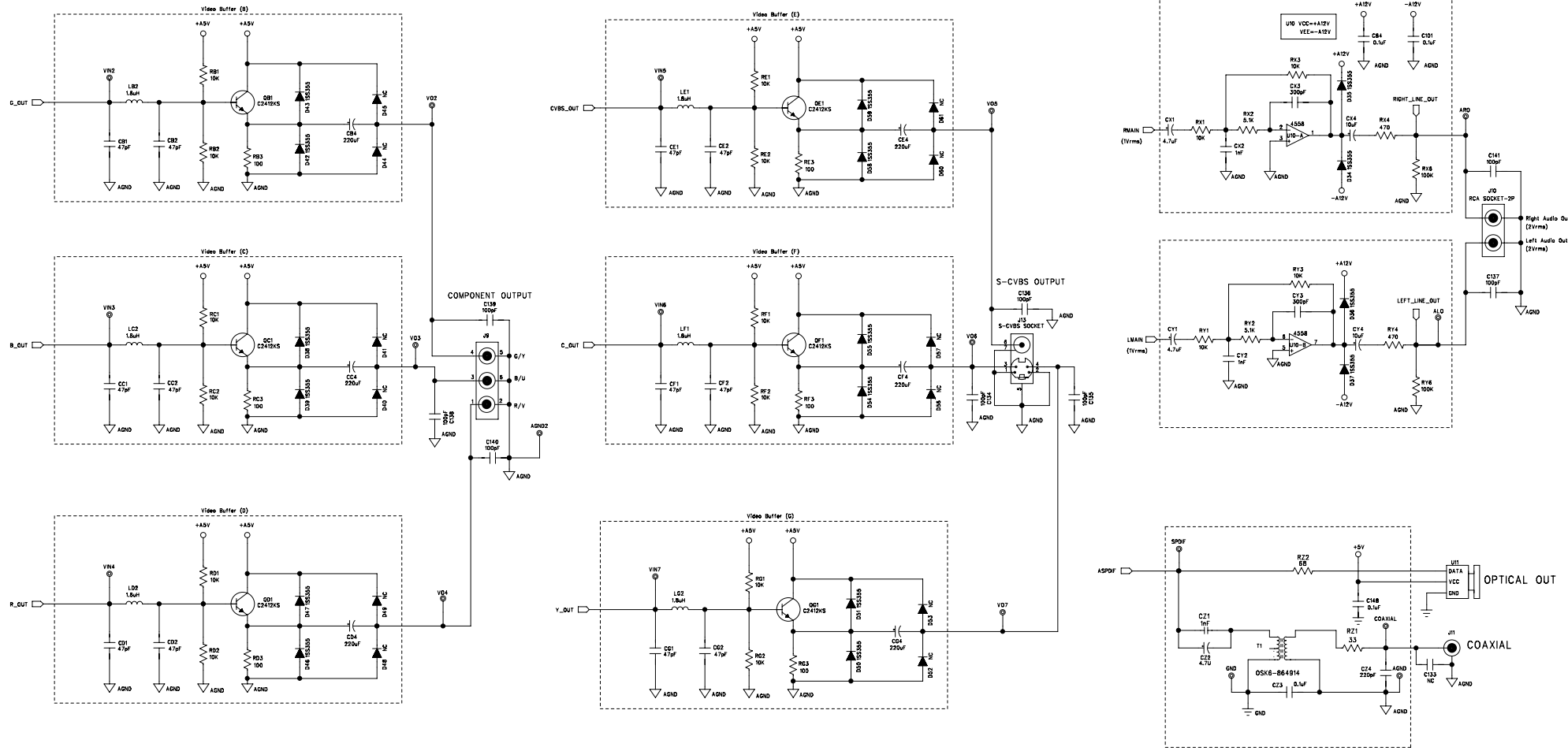
Pin	Signal	Current
1	PWR_CTL	TTL +5V
2	+5V_STBY	(0.1A/D)
3	GND	(D)
4	VFD_PWR_ANODE	(0.01A/D)
5	VFD_PWR_FIL1	(0.15A)
6	VFD_PWR_FIL2	(0.15A)

CAUTION:
C107,C108,C110,C112,C113,C114,C115 Shall be Y1 capacitor

Parts marked with this sign are safety critical components. They must always be replaced with identical components refer to the appropriate parts list and ensure exact replacement.

COMPANY:		TITLE: K493 POWER SUPPLY			
DRAWN:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
CHECKED:	DATED:		A3		
QUALITY CONTROL:	DATED:				
RELEASED:	DATED:	SCALE:		SHEET: 1	OF 1

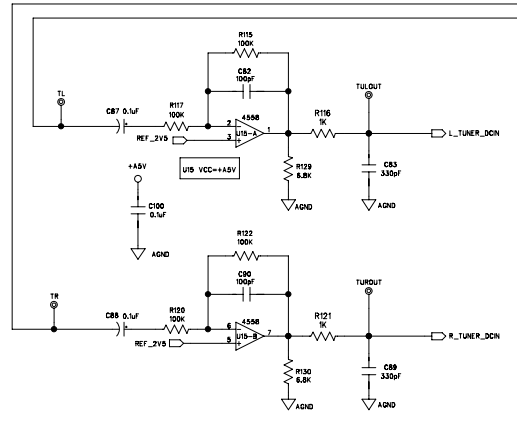
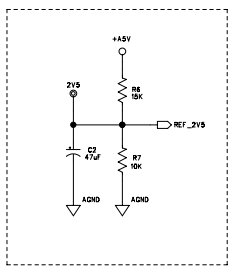
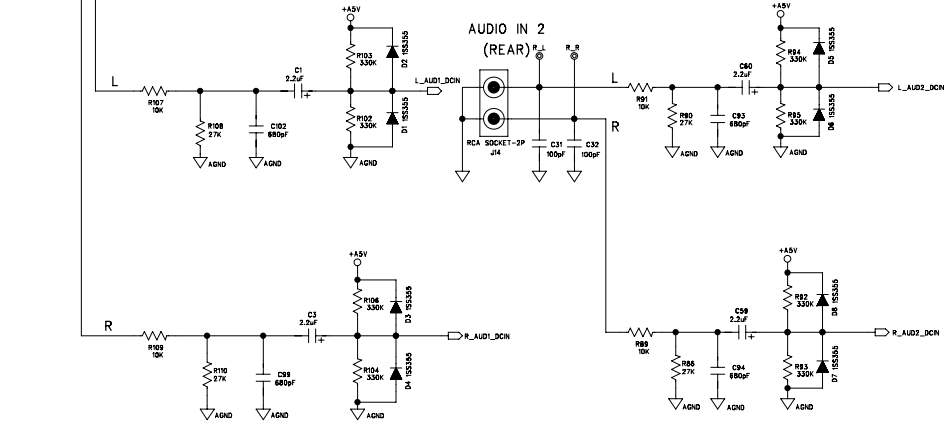
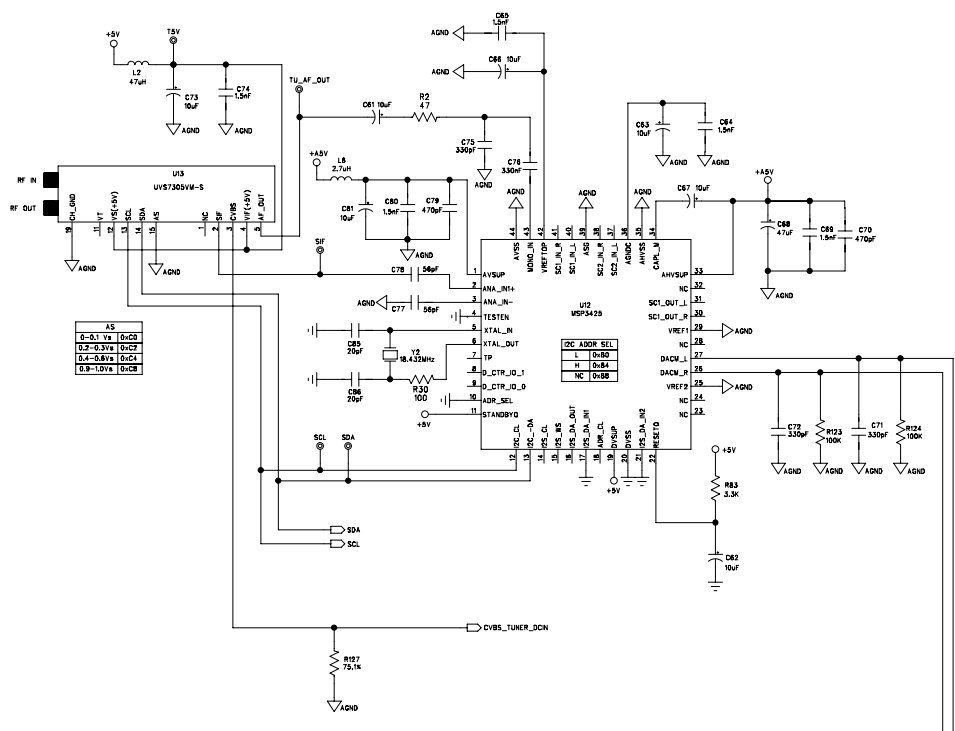
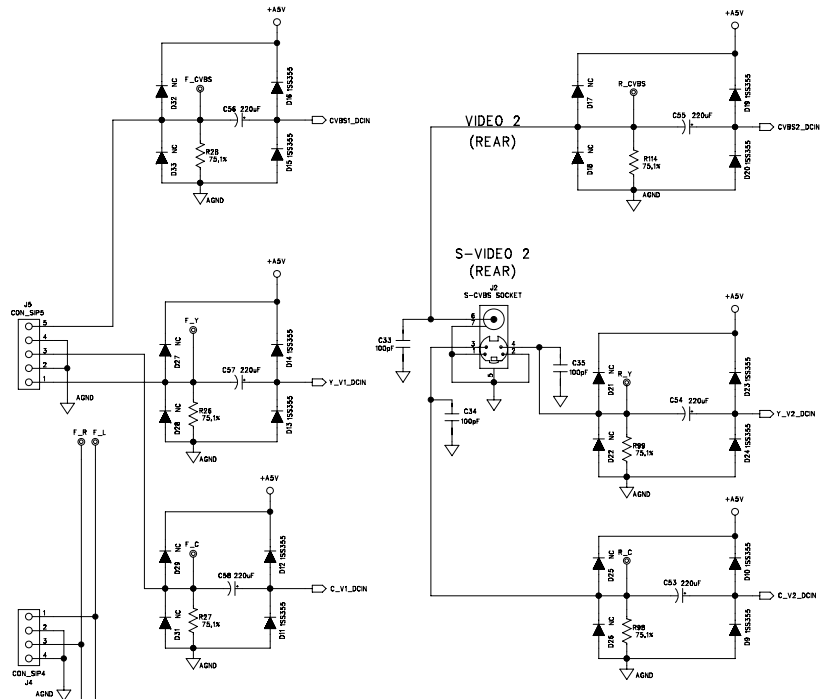
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



UNLESS OTHERWISE NOTED, ALL THE ELECT. CAP'S RATING VLOTAGE IS 10V.

DRAWN: HDRACE PCDN				DATED: 2006-04-19				COMPANY: TONIC TECHNOLOGY (SHENZHEN) LTD					
CHECKED: HDRACE PCDN				DATED: 2006-04-19				TITLE: K493 AV IO BOARD (USA)					
QUALITY CONTROL: HDRACE PCDN				DATED: 2006-04-19				CODE: A3		DRAWING NO: K493-AVIO-1		REV: 1.1	
RELEASED: HDRACE PCDN				DATED: 2006-04-19				SCALE: 1 to 1		SHEET: 1 OF 3			

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

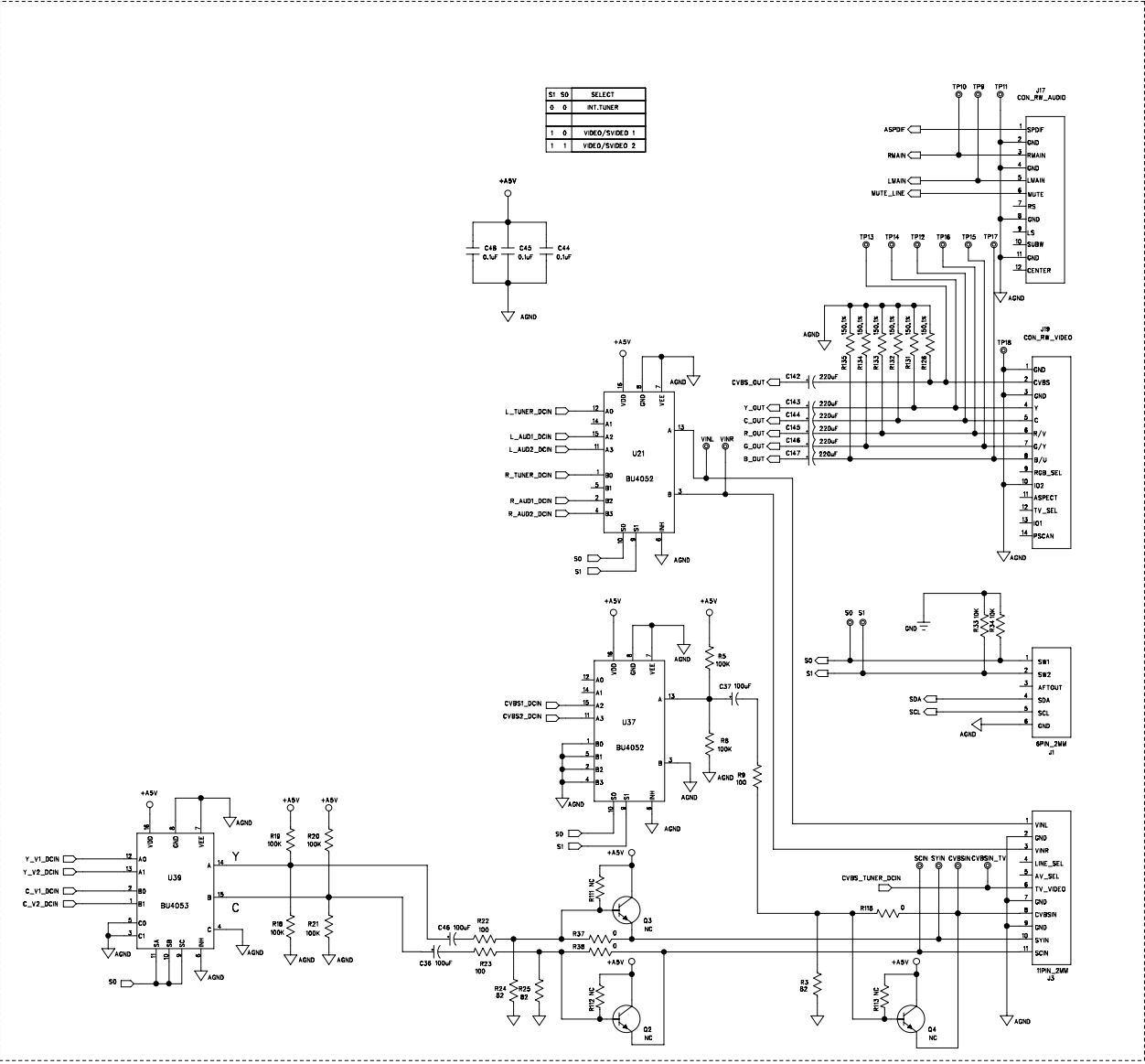
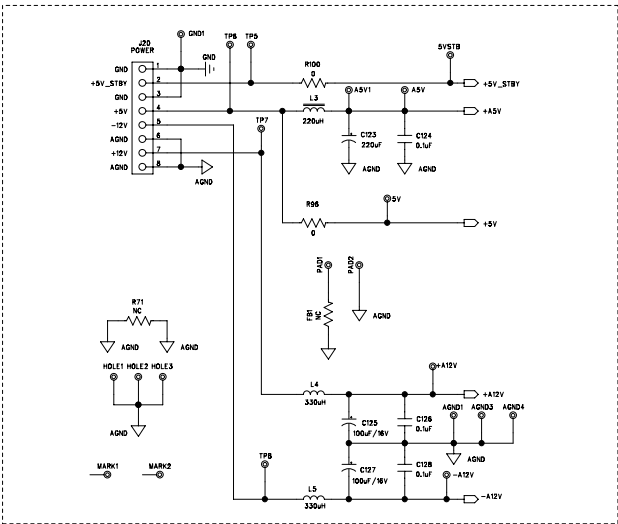
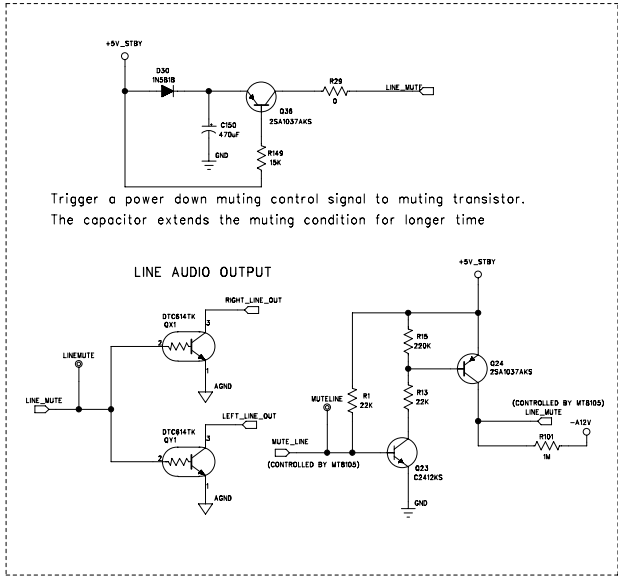


COMPANY: TONIC TECHNOLOGY (SHENZHEN) LTD

TITLE: K493 AV IO BOARD (USA)

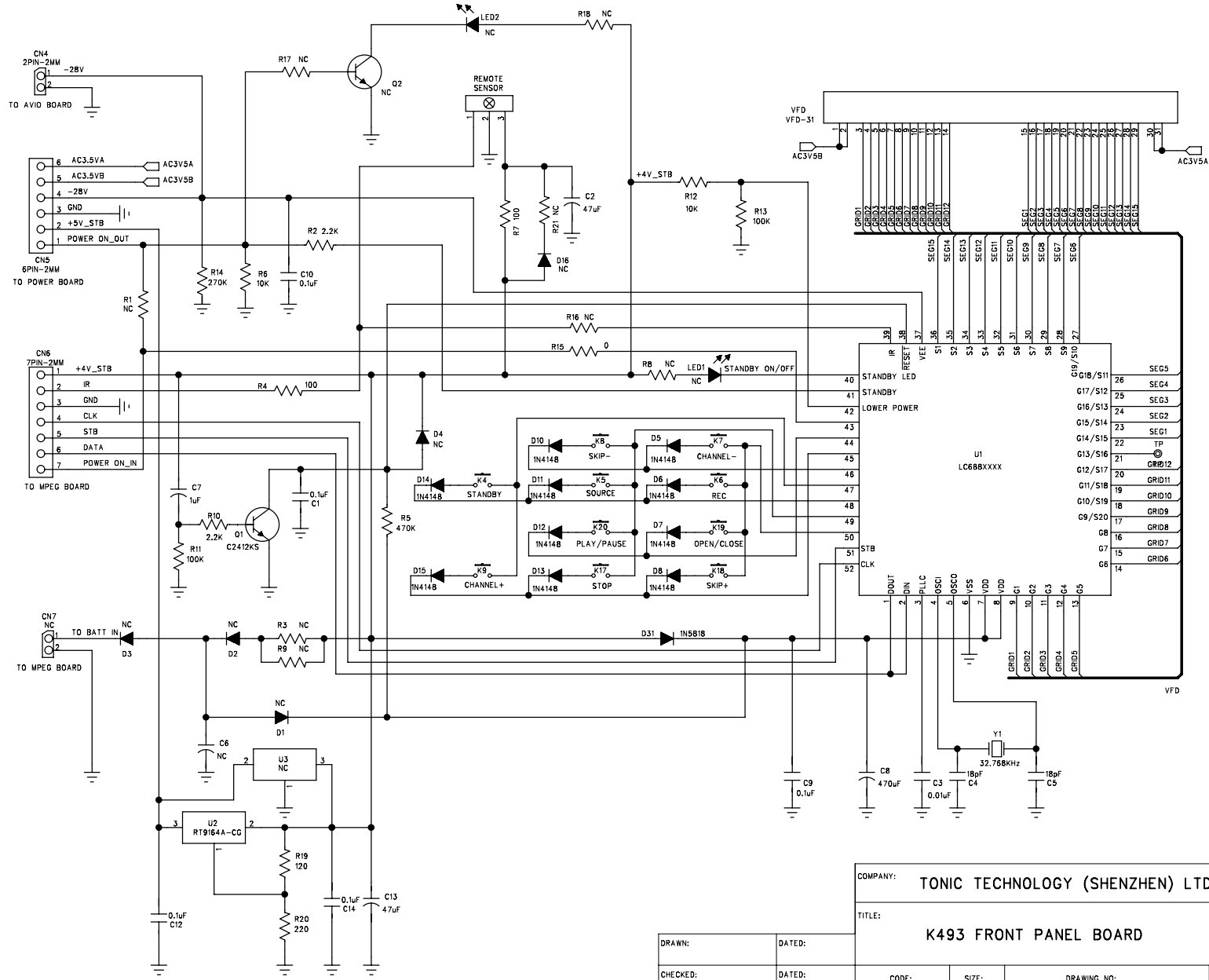
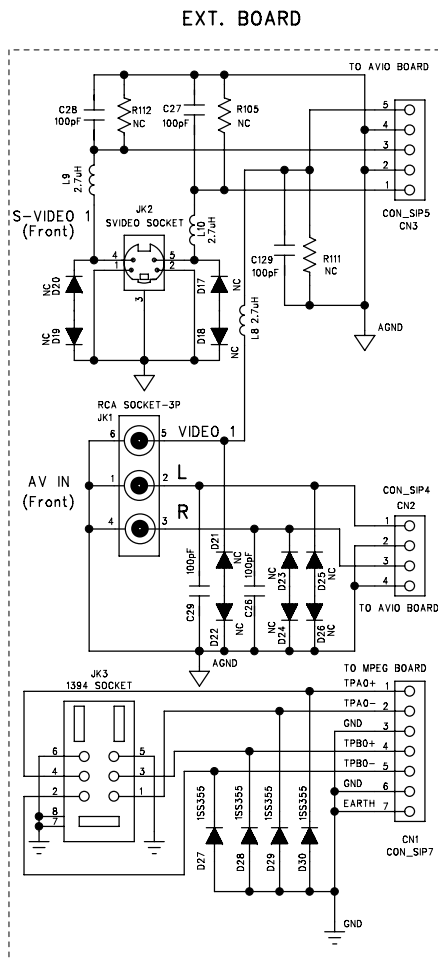
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CHECKED: HORACE POON	DATE: 2005-04-19				
QUALITY CONTROL: HORACE POON	DATE: 2005-04-19	RELEASED: HORACE POON	DATE: 2005-04-19	SCALE: 1:1	SHEET: 2 OF 3

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TONIC TECHNOLOGY (SHENZHEN) LTD	
TITLE: K493 AV IO BOARD (USA)	
DRAWN: HORACE PCDN	DATE: 2005-04-19
CHECKED: HORACE PCDN	DATE: 2005-04-19
QUALITY CONTROL: HORACE PCDN	DATE: 2005-04-19
RELEASED: HORACE PCDN	DATE: 2005-04-19
CODE: A3	SIZE: K493-AVIO-3
DRAWING NO: K493-AVIO-3	REV: 1.1
SCALE: 1:1	SHEET: 3 OF 3

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TONIC TECHNOLOGY (SHENZHEN) LTD			
TITLE: K493 FRONT PANEL BOARD			
DRAWN:	DATED:	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO:	REV:
QUALITY CONTROL:	DATED:	A3	FRONT PANEL
RELEASED:	DATED: 2005-04-19	SCALE:	SHEET: 1 OF 1

D

C

B

A

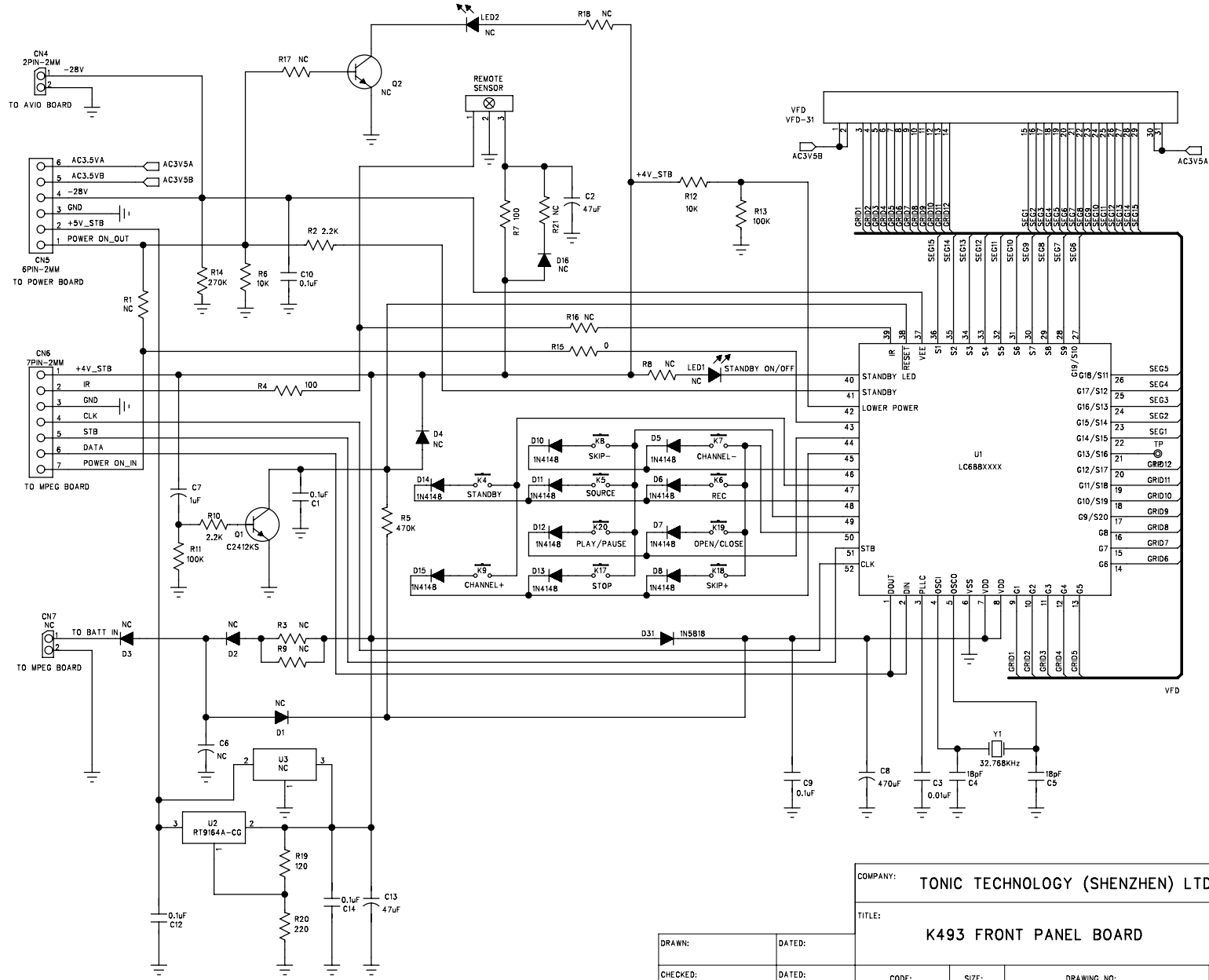
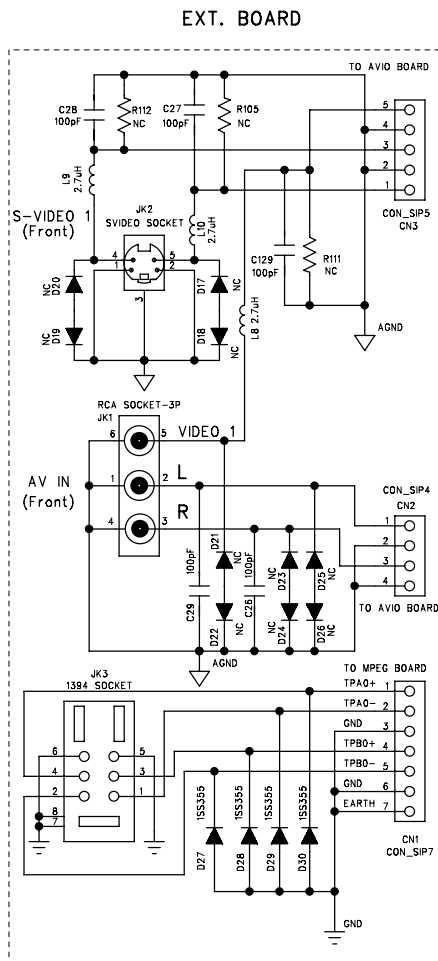
D

C

B

A

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TONIC TECHNOLOGY (SHENZHEN) LTD			
TITLE: K493 FRONT PANEL BOARD			
DRAWN:	DATED:	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO:	REV:
QUALITY CONTROL:	DATED:	A3	FRONT PANEL
RELEASED:	DATED: 2005-04-19	SCALE:	SHEET: 1 OF 1

D

C

B

A

D

C

B

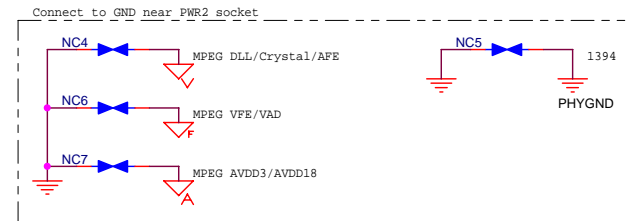
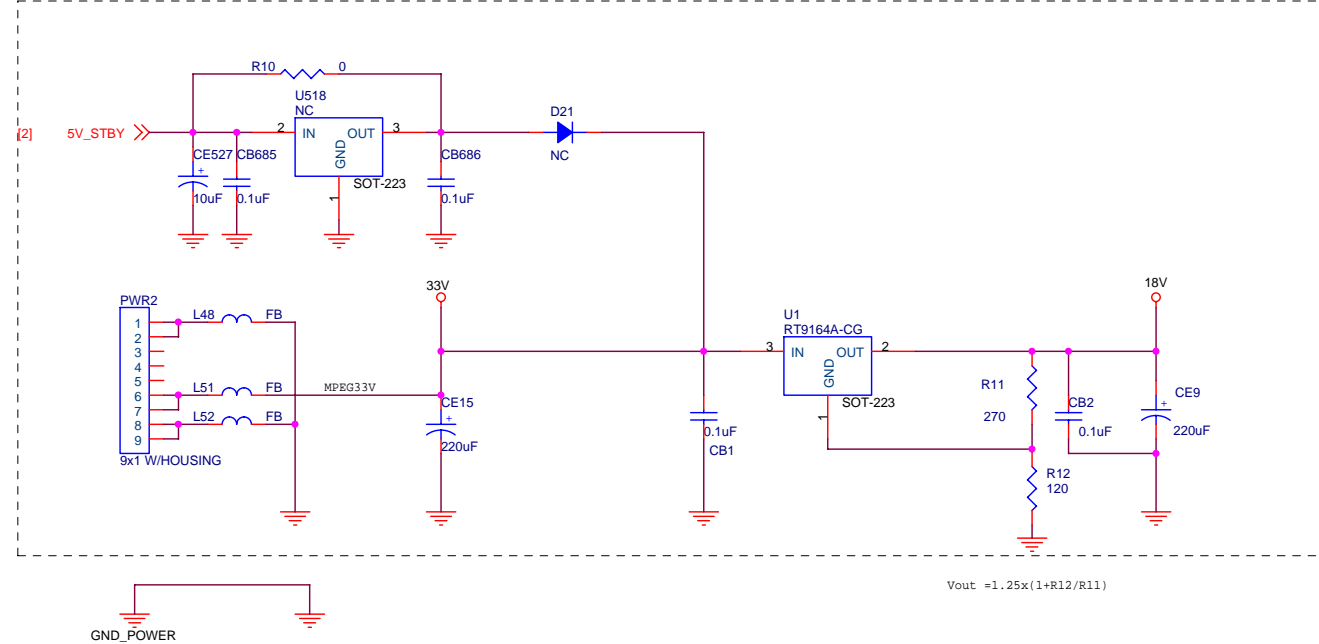
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MT8105B (LQFP256) DVR BOARD with SONY LDX-378 PUH

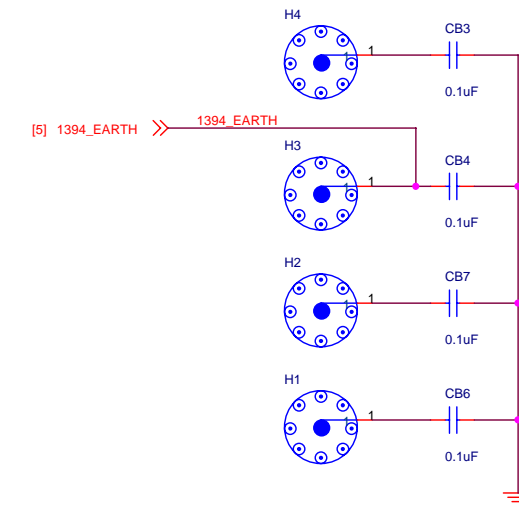
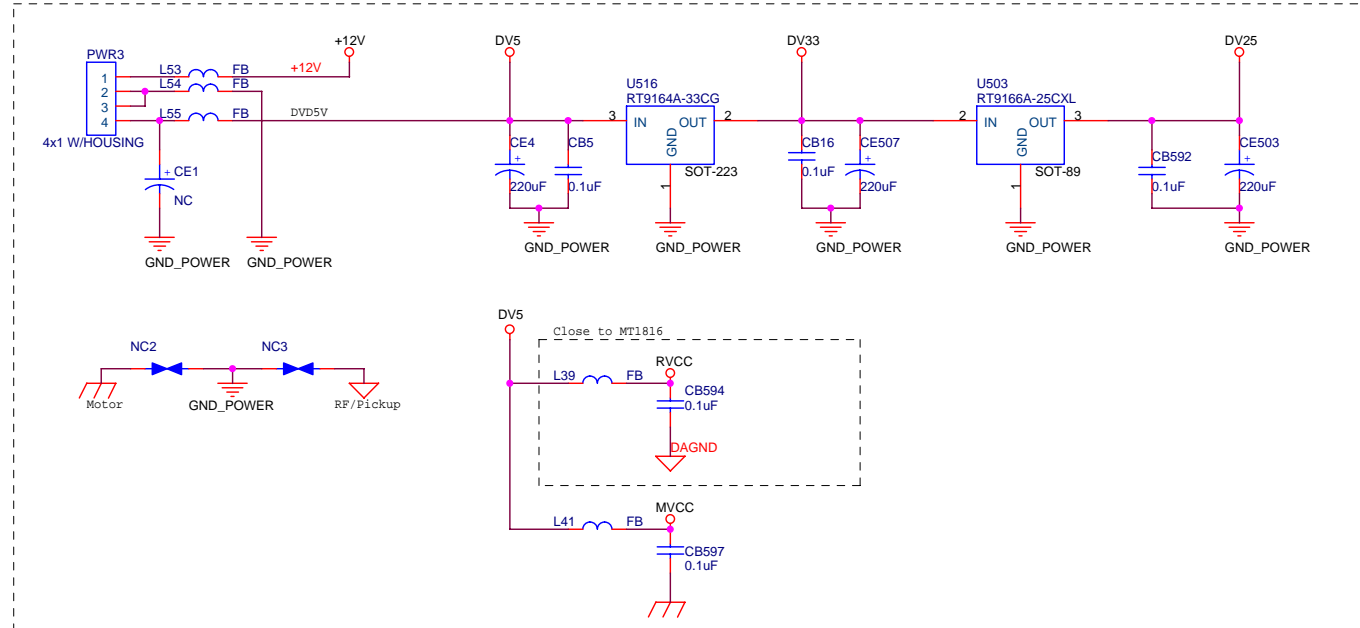
- | | | | |
|---|-------------------------|---|---------------------|
| 1 | INDEX & POWER | 6 | MT1818E |
| 2 | MT8105B | 7 | SERVO SDRAM & FLASH |
| 3 | MPEG SDRAM & FLASH | 8 | MT1816E |
| 4 | AUDIO CODEC & AV IN/OUT | 9 | MOTOR DRIVER |
| 5 | 1394 & USB | | |

Rev.	History	P#	Date
V1	Based on MTK SO8105BS1V1 release.		2004/04/12
V7	Sync with MT8105SDR_SONY_V5 schematic		2004/09/23

Power Supply for MPEG



Power Supply for Servo/RF

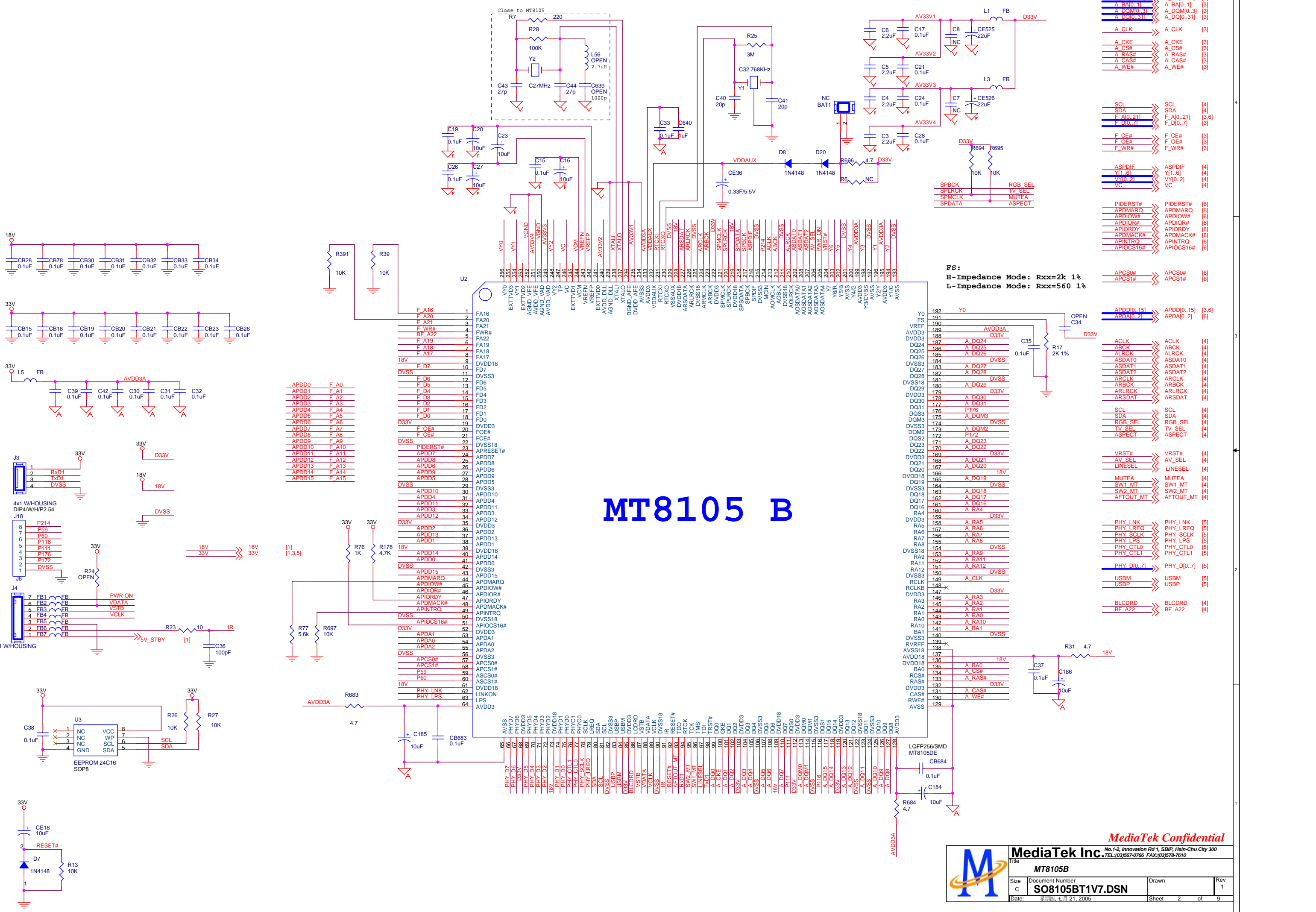


- MVCC >>> MVCC [9]
- RVCC >>> RVCC [8]
- +12V >>> +12V [9]
- 18V >>> 18V [2]
- 33V >>> 33V [2,3,5]
- DV25 >>> DV25 [6]
- DV33 >>> DV33 [4,5,6,7]
- DV5 >>> DV5 [4,5,8]
- DAGND >>> DAGND [6,8,9]

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TEL: (03)867-0786 FAX: (03)878-7610

	MediaTek Inc.		INDEX	
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Date:	星期四, 七月 21, 2005	Sheet	1 of 9	



MT8105 B

A_RA[0..12]	A_RA[0..12]	[3]
A_BA[0..1]	A_BA[0..1]	[3]
A_DQM[0..3]	A_DQM[0..3]	[3]
A_DQ[0..31]	A_DQ[0..31]	[3]
A_CLK	A_CLK	[3]
A_CKE	A_CKE	[3]
A_CS#	A_CS#	[3]
A_RAS#	A_RAS#	[3]
A_CAS#	A_CAS#	[3]
A_WE#	A_WE#	[3]
SCL	SCL	[4]
SDA	SDA	[4]
F_A[0..21]	F_A[0..21]	[3,6]
F_D[0..7]	F_D[0..7]	[3]
F_CE#	F_CE#	[3]
F_OE#	F_OE#	[3]
F_WR#	F_WR#	[3]
ASPDIF	ASPDIF	[4]
Y[1..6]	Y[1..6]	[4]
VY[0..2]	VY[0..2]	[4]
VC	VC	[4]
PIDERST#	PIDERST#	[6]
APDMARQ	APDMARQ	[6]
APDIOW#	APDIOW#	[6]
APDIOR#	APDIOR#	[6]
APIORDY	APIORDY	[6]
APDMACK#	APDMACK#	[6]
APINTRQ	APINTRQ	[6]
APIOCS16#	APIOCS16#	[6]
APCS0#	APCS0#	[6]
APCS1#	APCS1#	[6]
APDD[0..15]	APDD[0..15]	[3,6]
APDA[0..2]	APDA[0..2]	[6]
ACLK	ACLK	[4]
ALRCK	ALRCK	[4]
ASDAT0	ASDAT0	[4]
ASDAT1	ASDAT1	[4]
ASDAT2	ASDAT2	[4]
ARCLK	ARCLK	[4]
ARBCK	ARBCK	[4]
ARLRCK	ARLRCK	[4]
ARSDAT	ARSDAT	[4]
SCL	SCL	[4]
SDA	SDA	[4]
RGB_SEL	RGB_SEL	[4]
TV_SEL	TV_SEL	[4]
ASPECT	ASPECT	[4]
VRST#	VRST#	[4]
AV_SEL	AV_SEL	[4]
LINESEL	LINESEL	[4]
MUTEA	MUTEA	[4]
SW1_MT	SW1_MT	[4]
SW2_MT	SW2_MT	[4]
AFTOUT_MT	AFTOUT_MT	[4]
PHY_LNK	PHY_LNK	[5]
PHY_LREQ	PHY_LREQ	[5]
PHY_SCLK	PHY_SCLK	[5]
PHY_LPS	PHY_LPS	[5]
PHY_CTL0	PHY_CTL0	[5]
PHY_CTL1	PHY_CTL1	[5]
PHY_D[0..7]	PHY_D[0..7]	[5]
USBP	USBP	[5]
USBM	USBM	[5]
BLCRD	BLCRD	[4]
BF_A22	BF_A22	[4]

FS:
 H-Impedance Mode: Rxx=2k 1%
 L-Impedance Mode: Rxx=560 1%

A_RA3	D_RA3
A_RA2	D_RA2
A_RA1	D_RA1
A_RA0	D_RA0

A_RA4	D_RA4
A_RA5	D_RA5
A_RA6	D_RA6
A_RA7	D_RA7

A_RA8	D_RA8
A_RA9	D_RA9
A_RA11	D_RA11
A_RA12	D_RA12

A_RA10	D_RA10
--------	--------

A_DQ0	D_DQ0
A_DQ1	D_DQ1
A_DQ2	D_DQ2
A_DQ3	D_DQ3

A_DQ4	D_DQ4
A_DQ5	D_DQ5
A_DQ6	D_DQ6
A_DQ7	D_DQ7

A_DQ8	D_DQ8
A_DQ9	D_DQ9
A_DQ10	D_DQ10
A_DQ11	D_DQ11

A_DQ12	D_DQ12
A_DQ13	D_DQ13
A_DQ14	D_DQ14
A_DQ15	D_DQ15

A_DQ16	D_DQ16
A_DQ17	D_DQ17
A_DQ18	D_DQ18
A_DQ19	D_DQ19

A_DQ20	D_DQ20
A_DQ21	D_DQ21
A_DQ22	D_DQ22
A_DQ23	D_DQ23

A_DQ24	D_DQ24
A_DQ25	D_DQ25
A_DQ26	D_DQ26
A_DQ27	D_DQ27

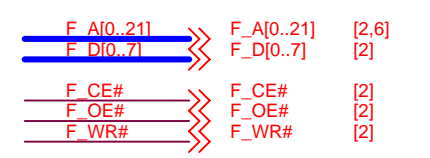
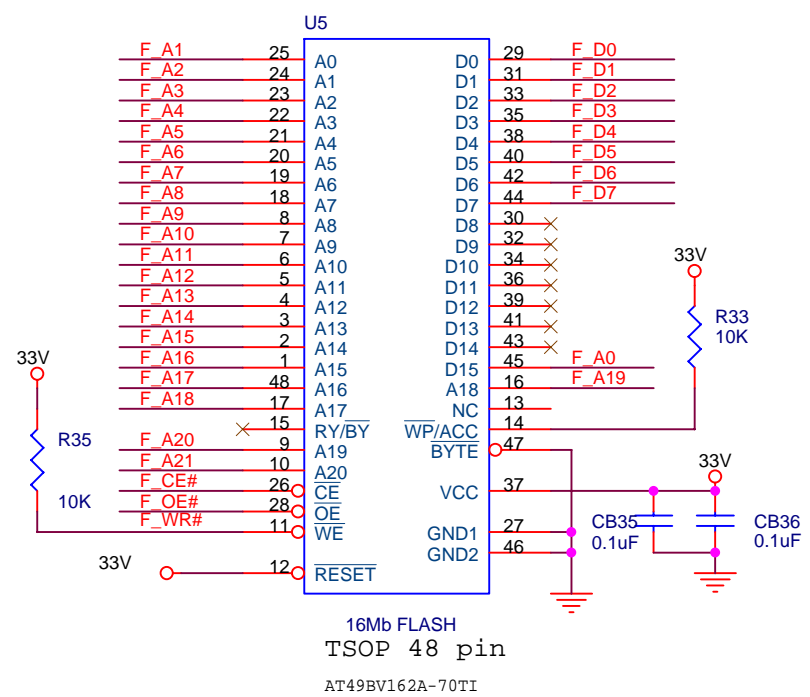
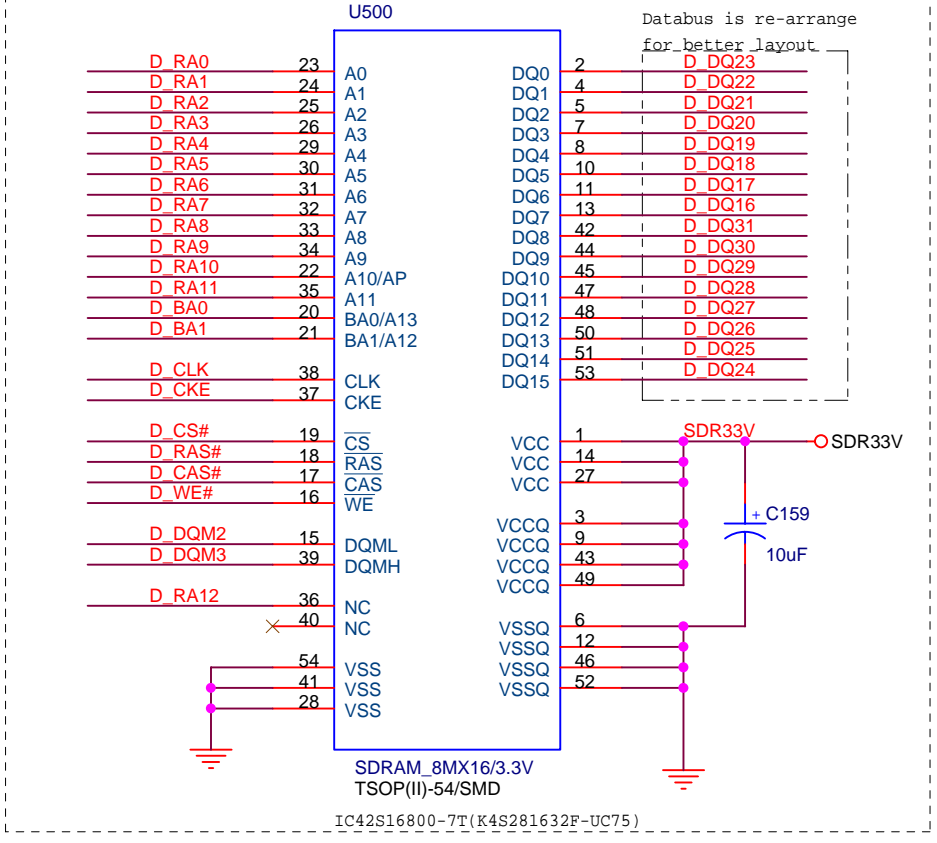
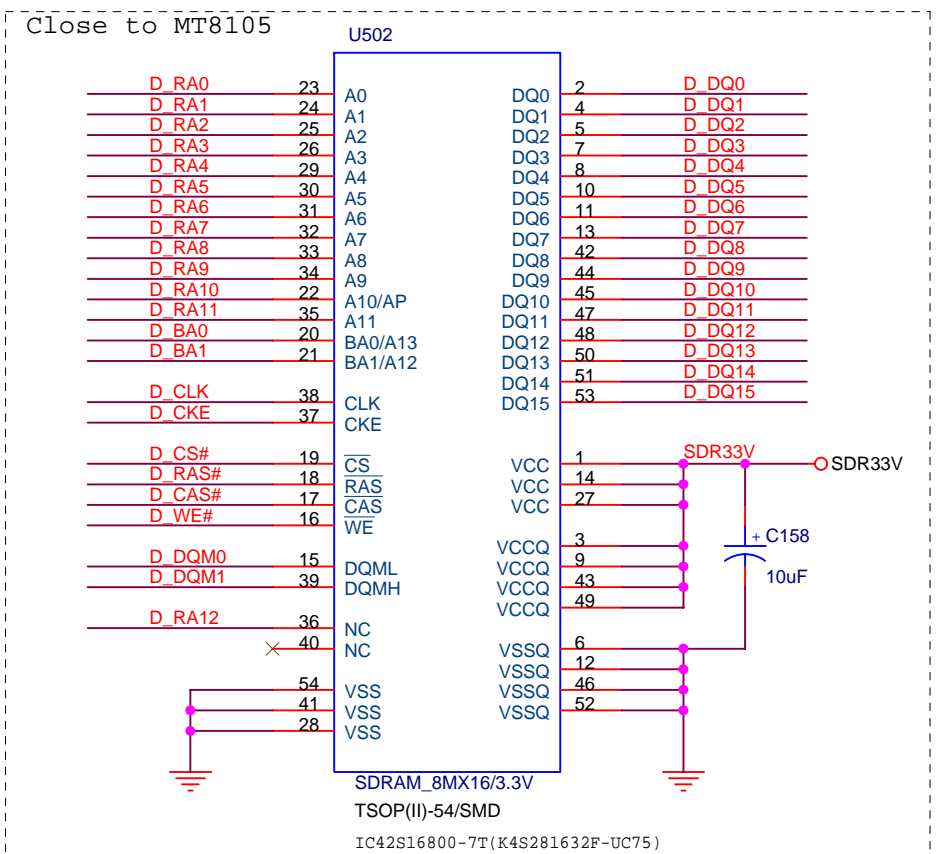
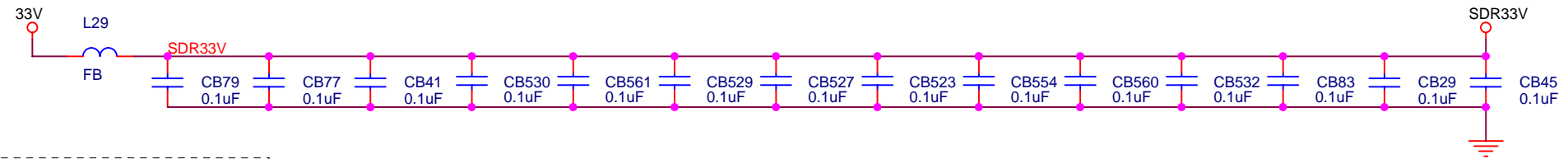
A_DQ28	D_DQ28
A_DQ29	D_DQ29
A_DQ30	D_DQ30
A_DQ31	D_DQ31

A_DQM0	R690	33	D_DQM0
A_DQM1	R691	33	D_DQM1
A_DQM2	R692	33	D_DQM2
A_DQM3	R693	33	D_DQM3

A_CS#	RN511	33x4	D_CS#
A_RAS#	1	2	D_RAS#
A_CAS#	3	4	D_CAS#
A_WE#	5	6	D_WE#

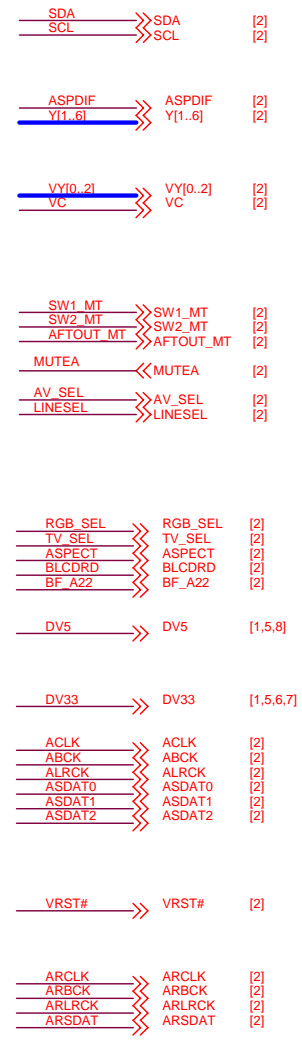
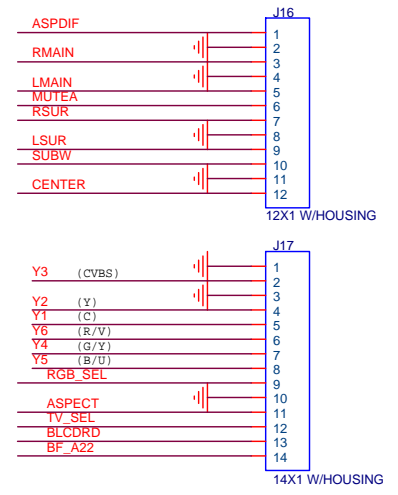
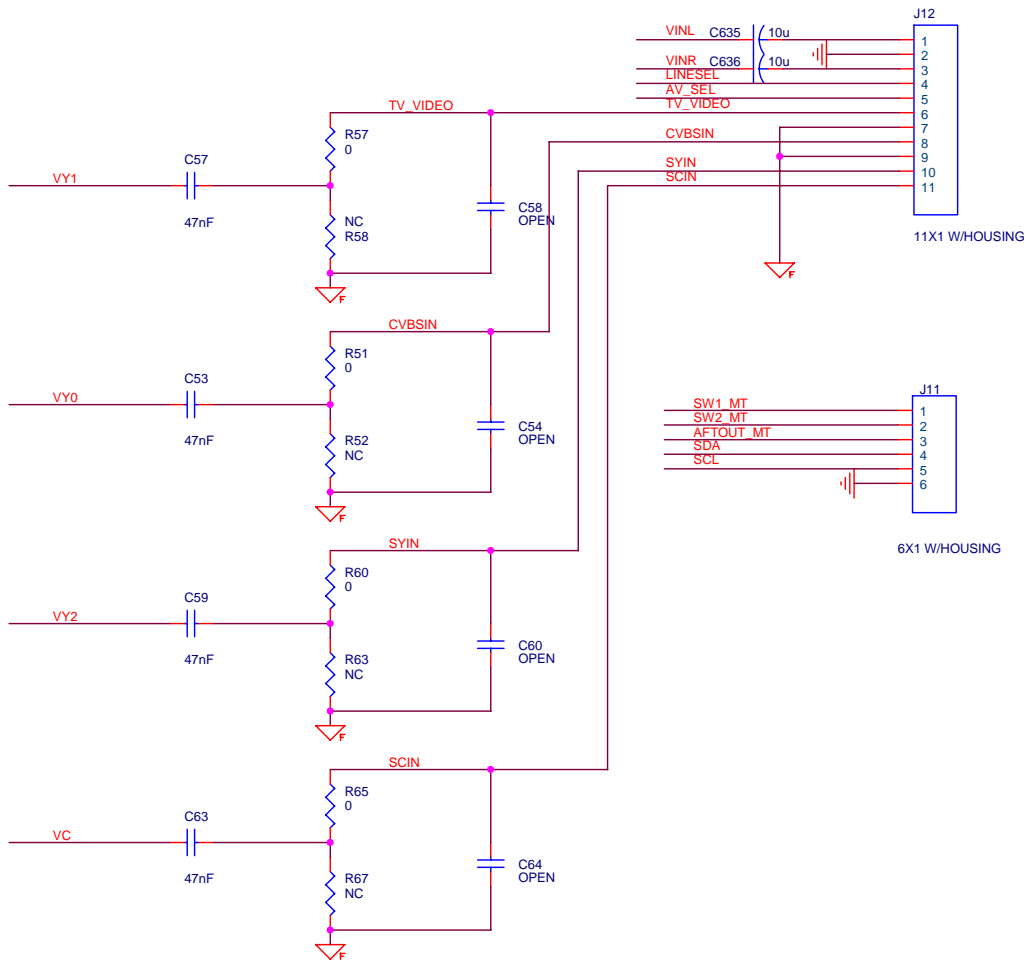
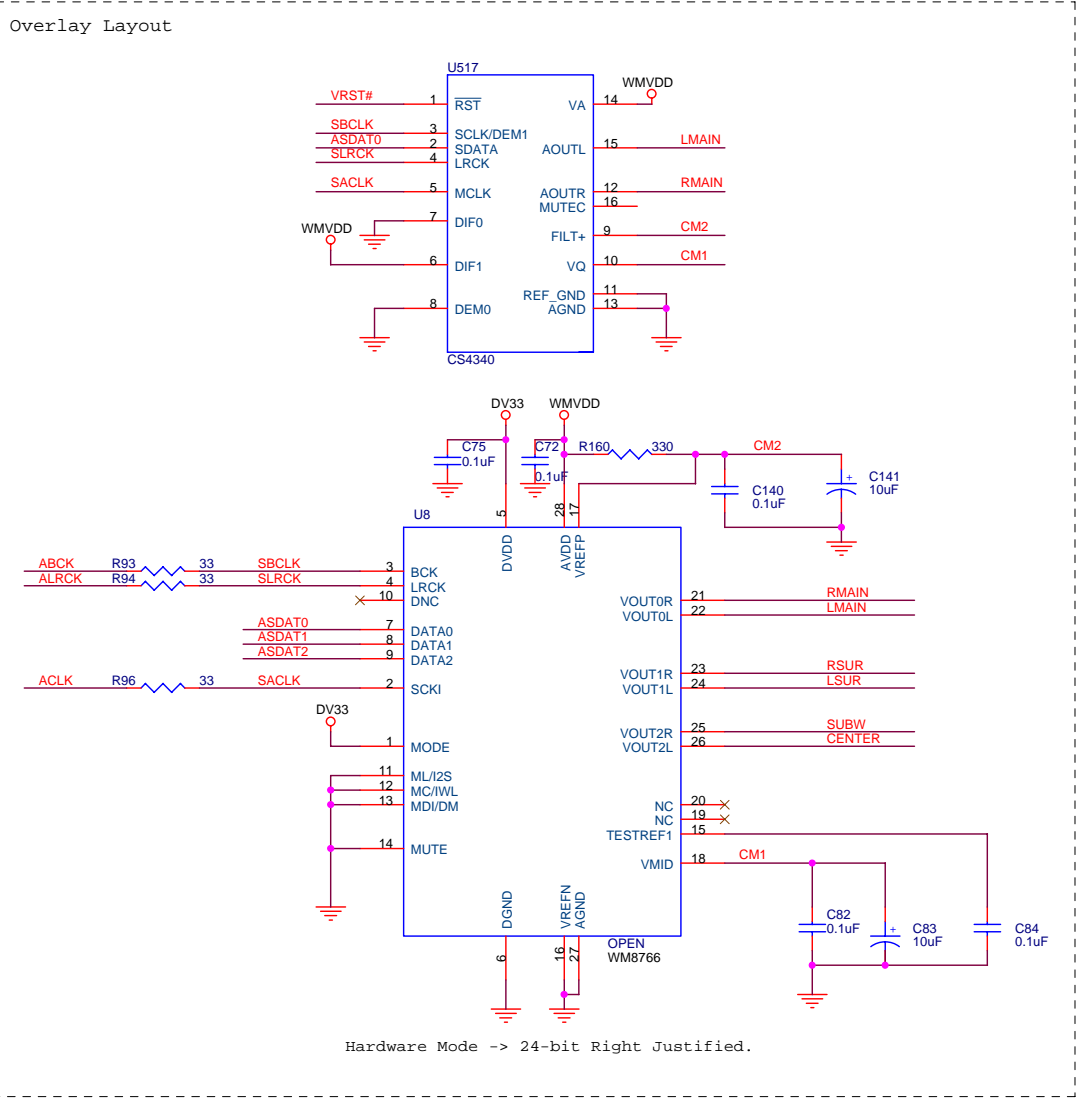
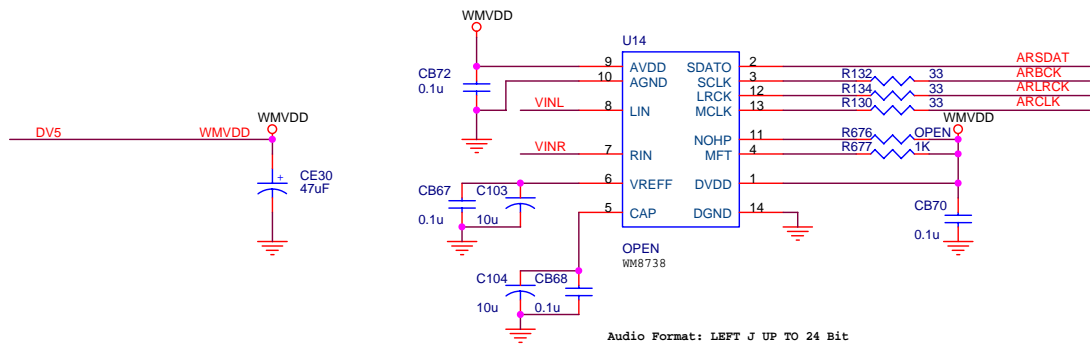
A_BA0	R14	33	D_BA0
A_BA1	R15	33	D_BA1

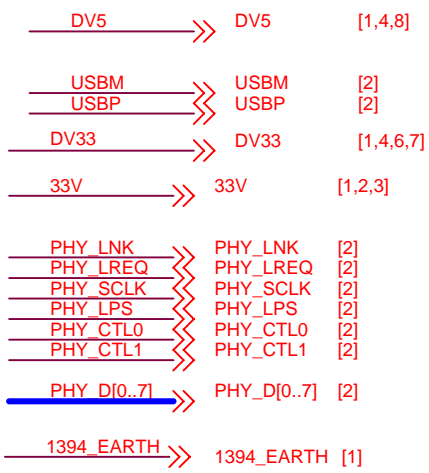
A_CKE	R511	33	D_CKE
A_CLK	R506	180	D_CLK



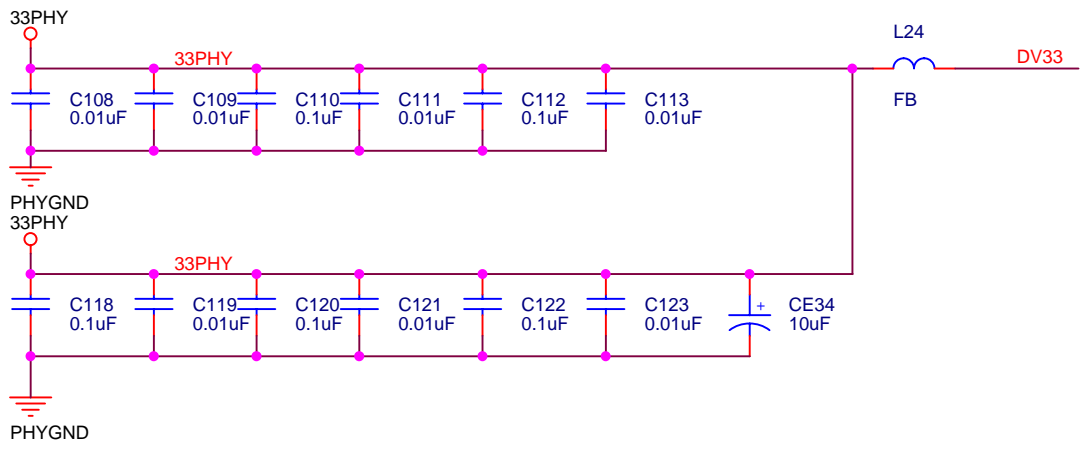
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	MediaTek Inc. No.1-2, Innovation Rd 1, SBIP, Hsin-Chu City 300 TEL: (03)567-0766 FAX: (03)578-7610		
	MPEG SDRAM & FLASH		
Title SO8105BT1V7.DSN	Document Number SO8105BT1V7.DSN	Drawn 	Rev 1
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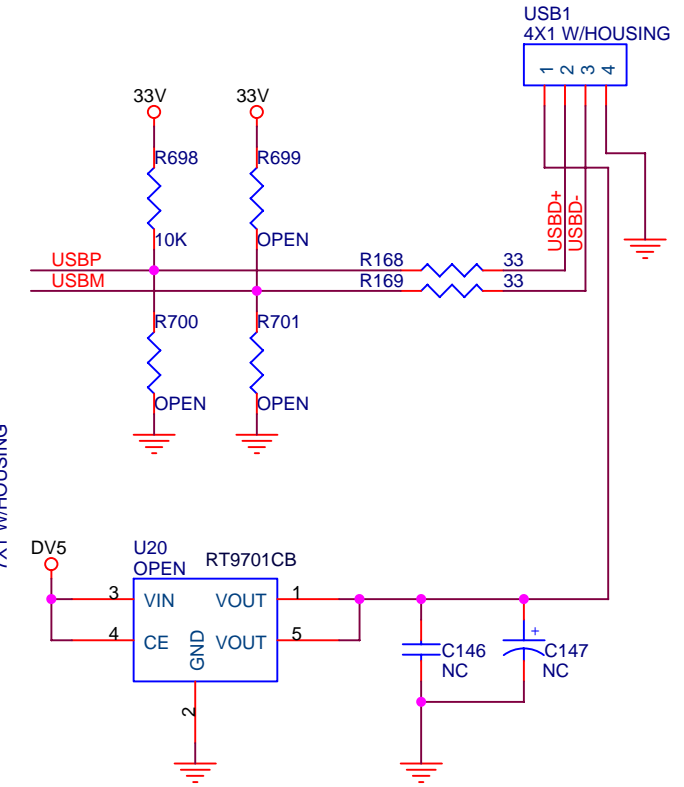
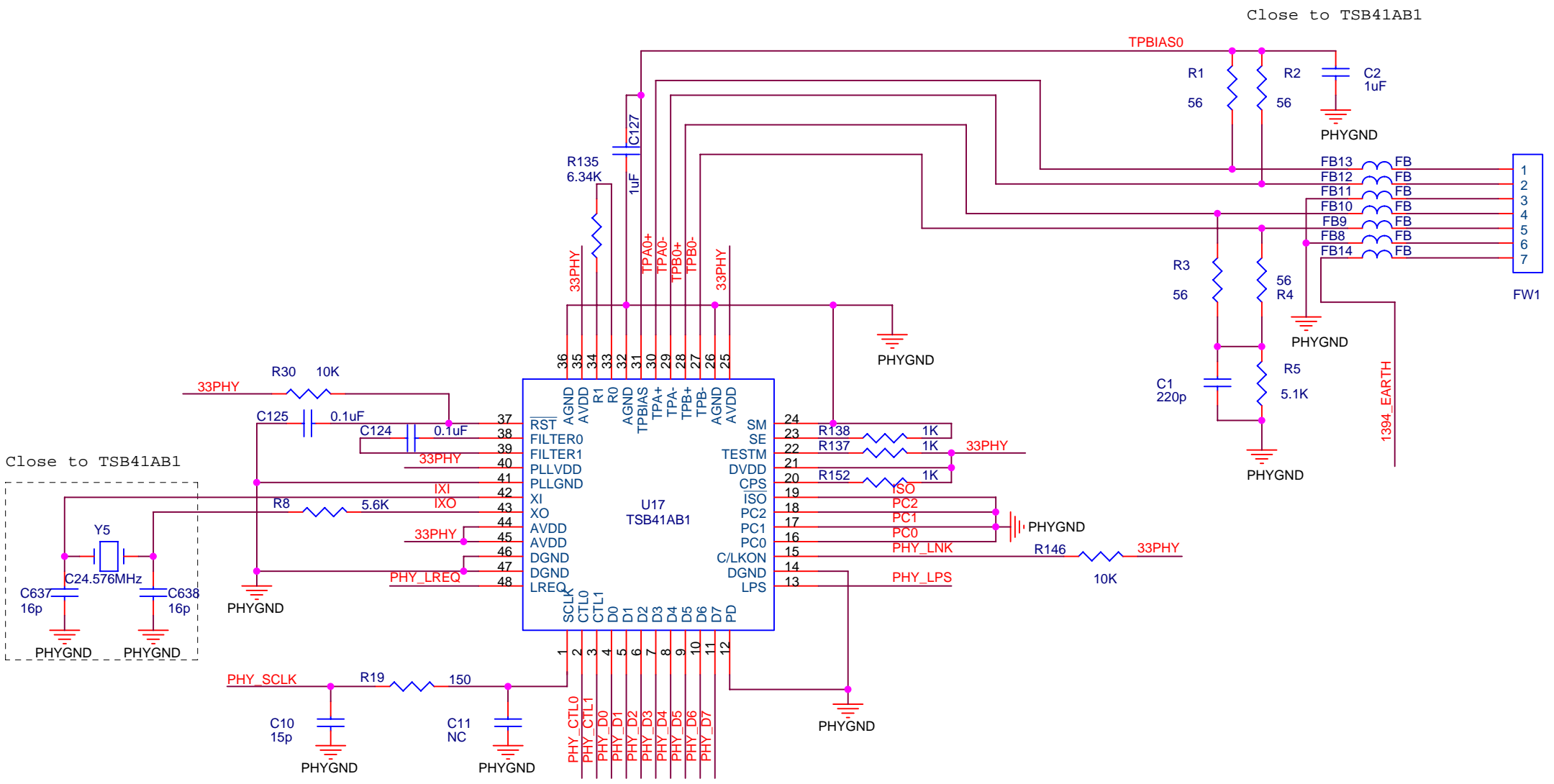




Close to MT8105



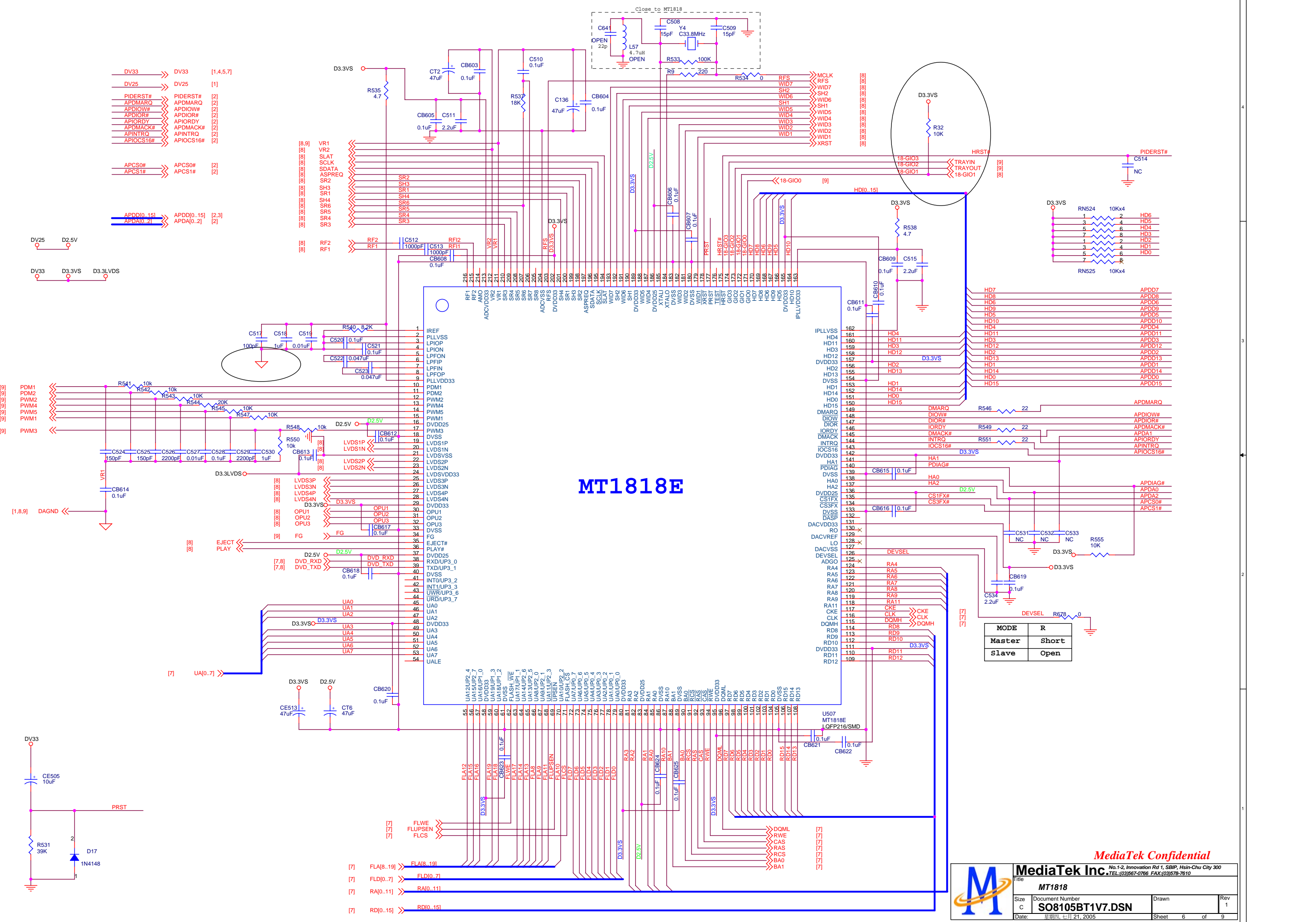
Close to TSB41AB1



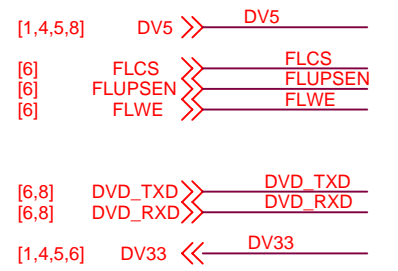
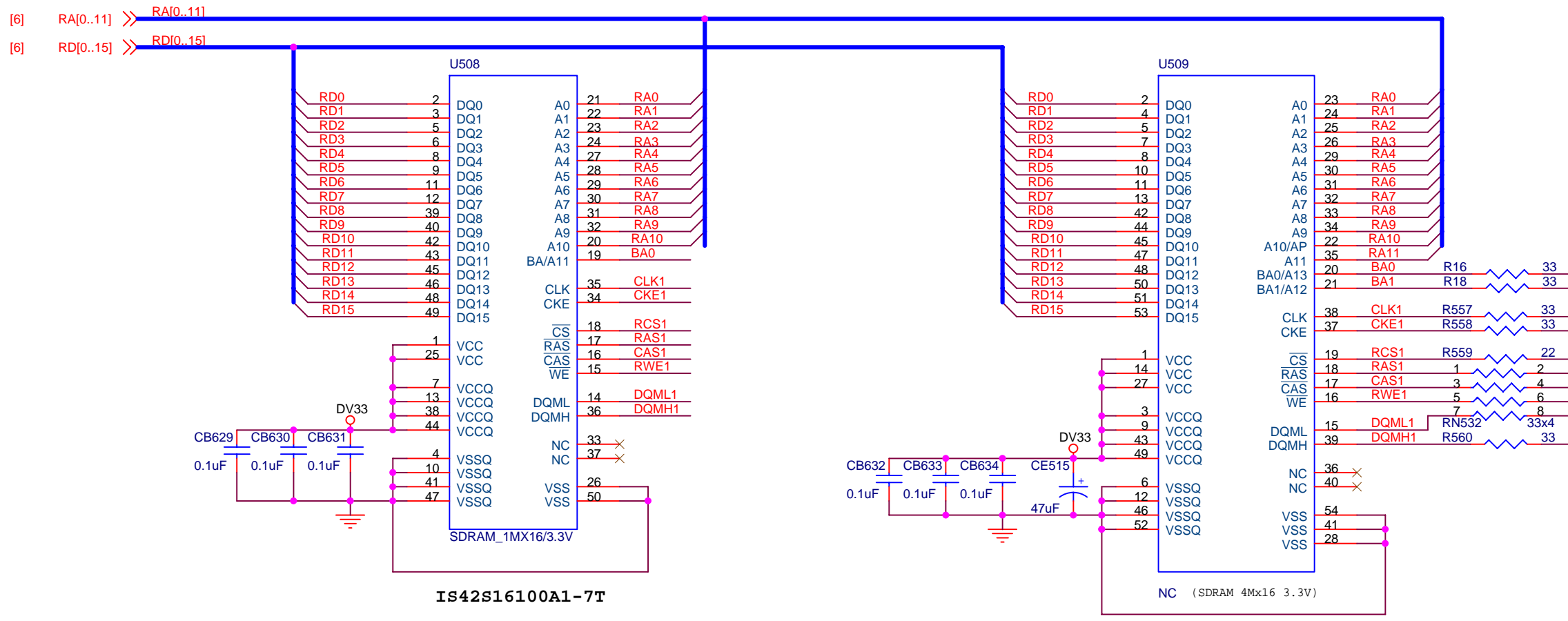
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	Title 1394 & USB		
Size B	Document Number SO8105BT1V7.DSN	Drawn	Rev 1
Date: 星期四, 七月 21, 2005	Sheet 5 of 9		

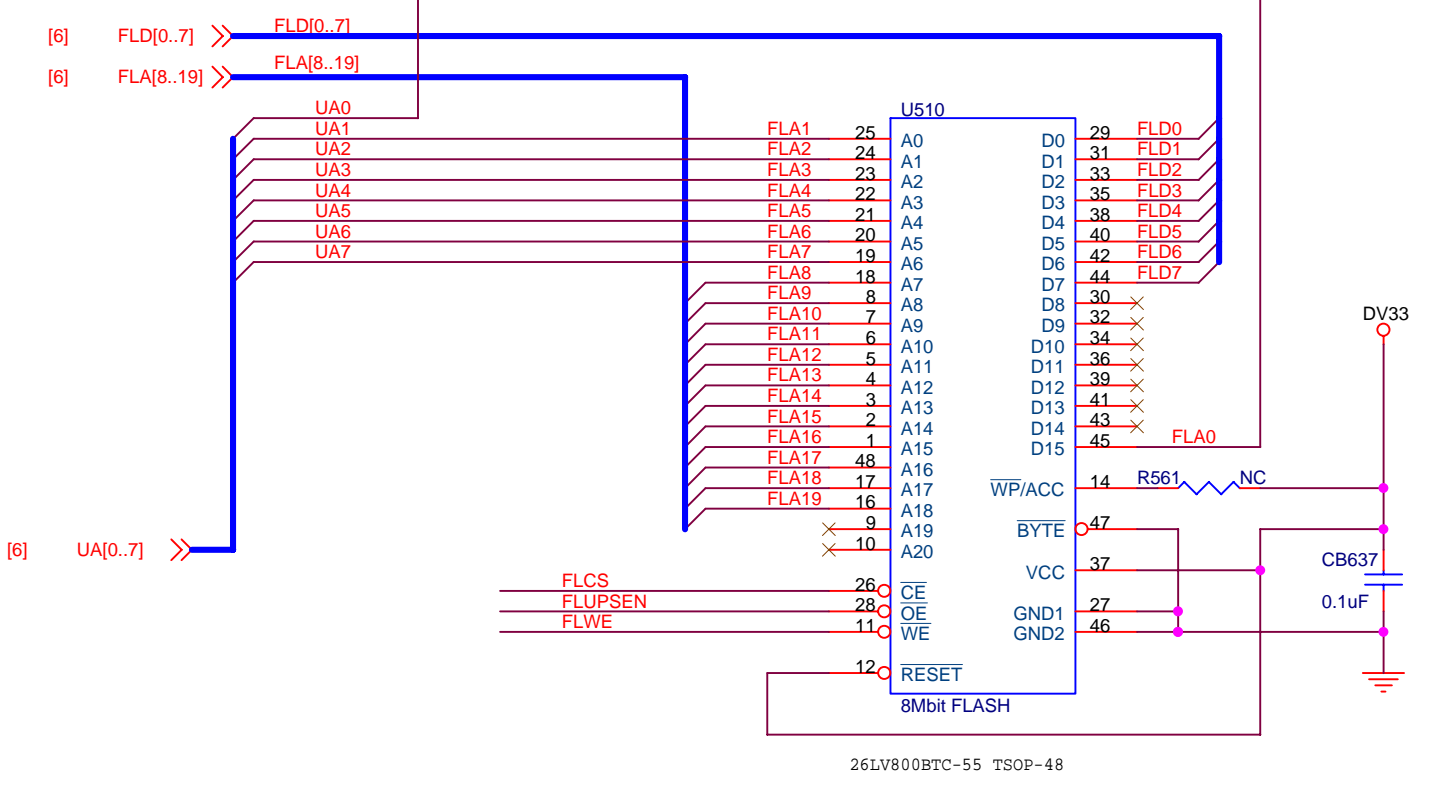
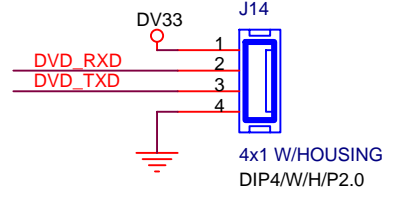
MT1818E



MODE	R
Master	Short
Slave	Open

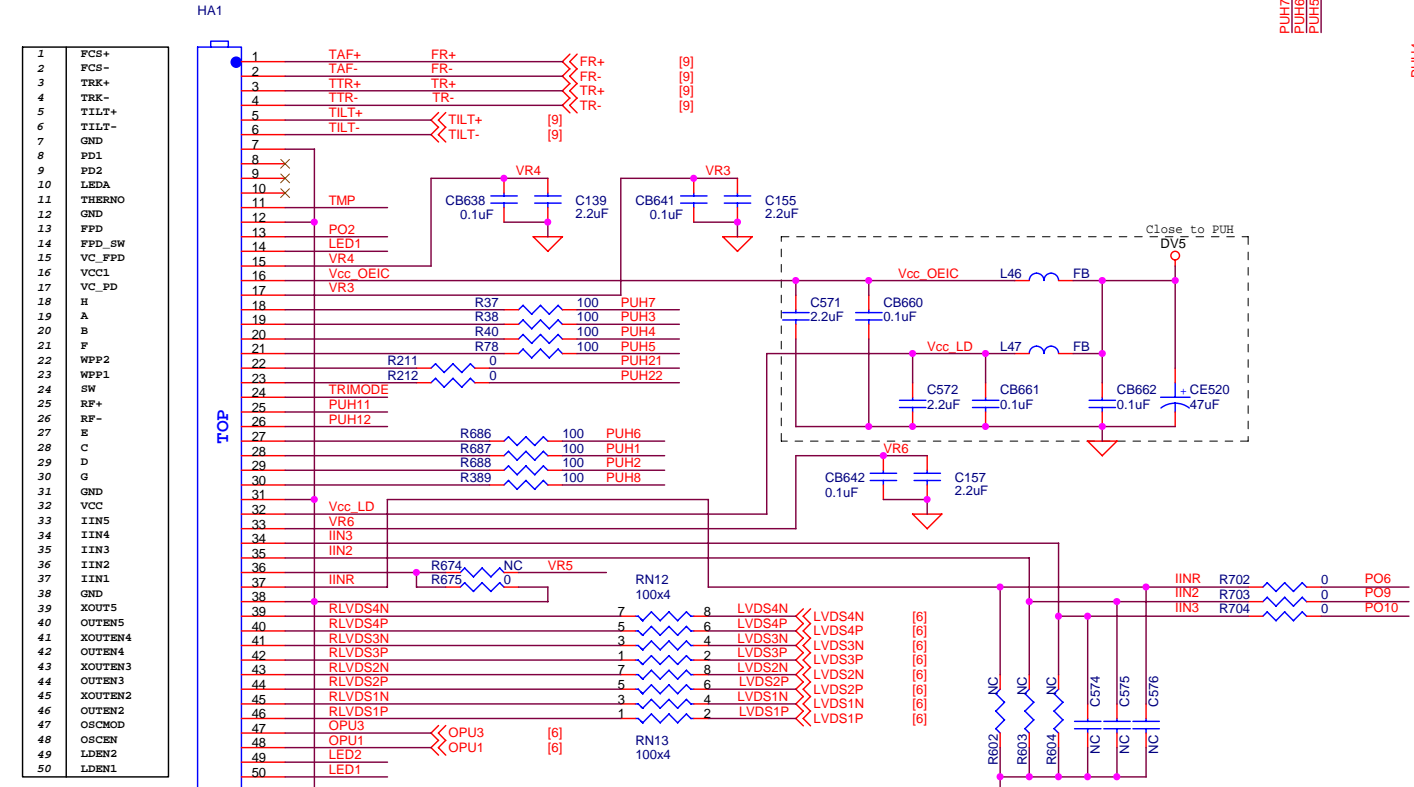
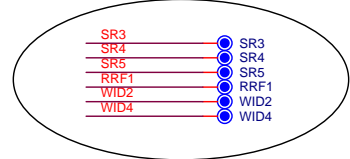
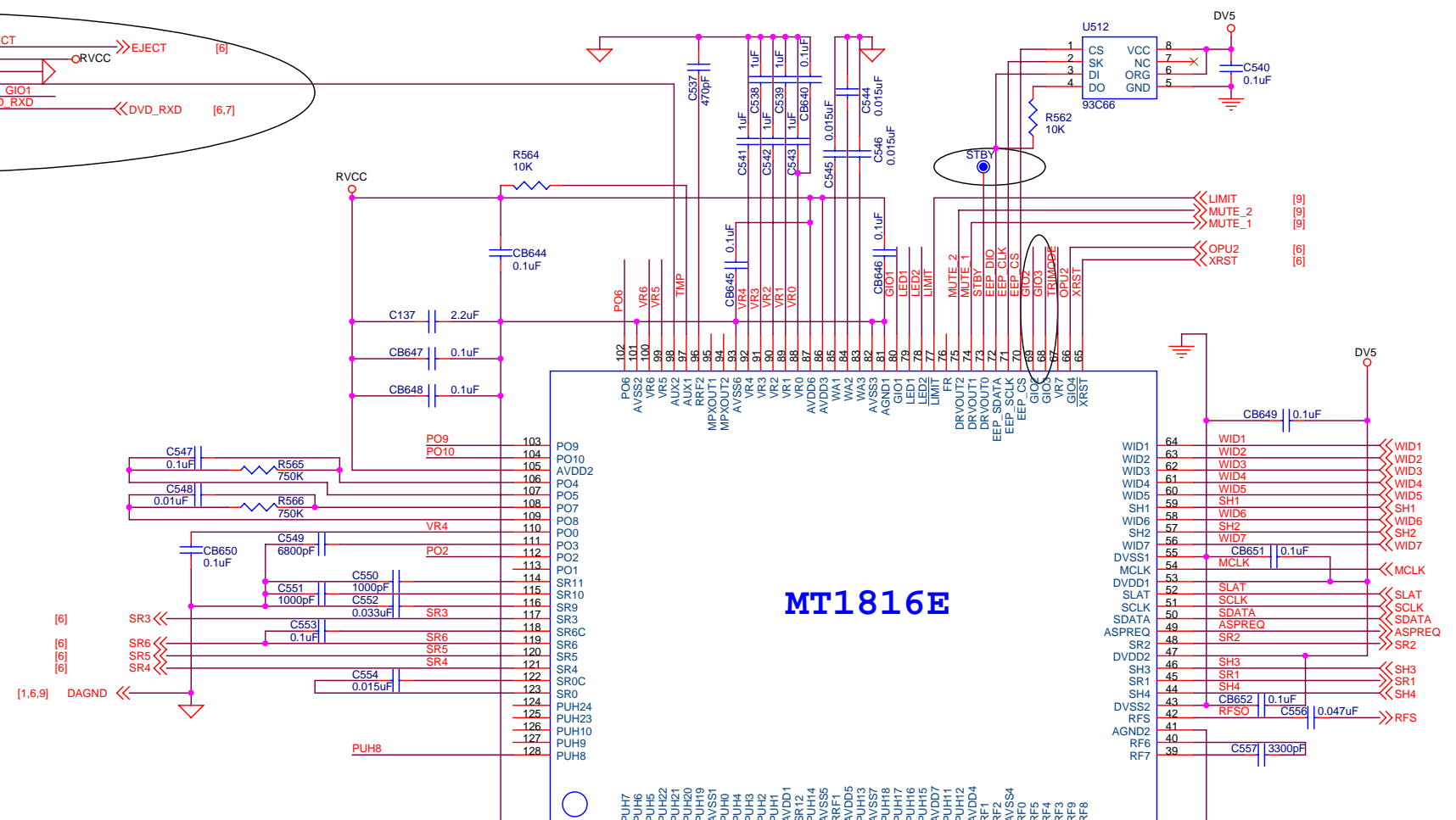
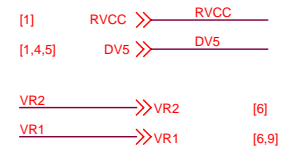
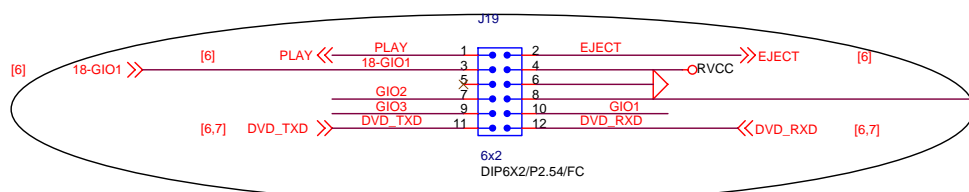


Overlay Layout



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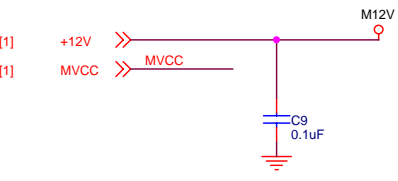
MediaTek Inc No.1-2, Innovation Rd 1, SBIP, Hsin-Chu City 300 TEL: (03)567-0766 FAX: (03)578-7610			
Title: SERVO SDRAM & FLASH			
Size: B	Document Number: SO8105BT1V7.DSN	Drawn:	Rev: 1
Date: 星期四, 七月 21, 2005	Sheet: 7	of	9



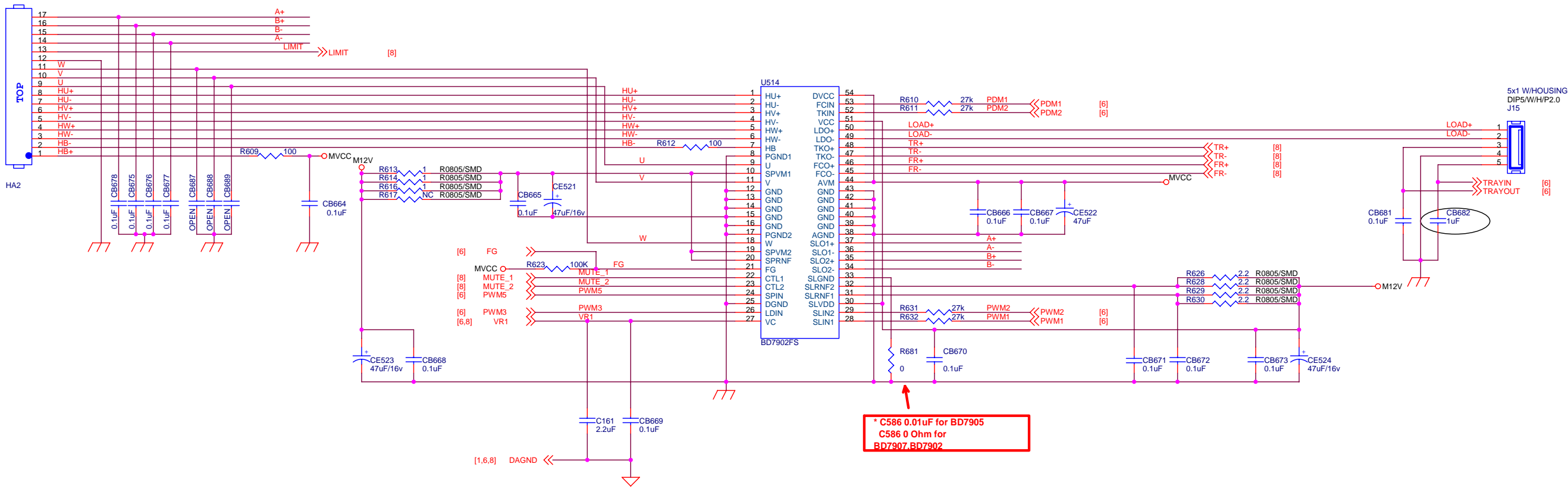
SONY LDX-378
HEADER 50 SMD0.5 TOP
H50S/P0.5/A

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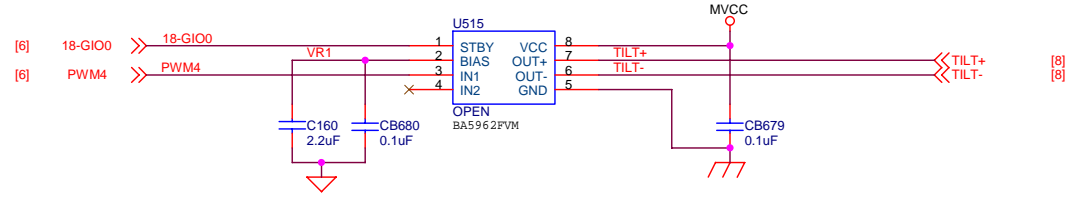
		MediaTek Inc. No. 1-2, Innovation Rd 1, SBIP, Hsin-Chu City 300 <small>TEL: (03)567-0766 FAX: (03)578-7610</small>	
		MT1816E & PUH	
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H17S/P1.0
HEADER 17 SMD1.0 TOP



* C586 0.01uF for BD7905
C586 0 Ohm for
BD7907, BD7902



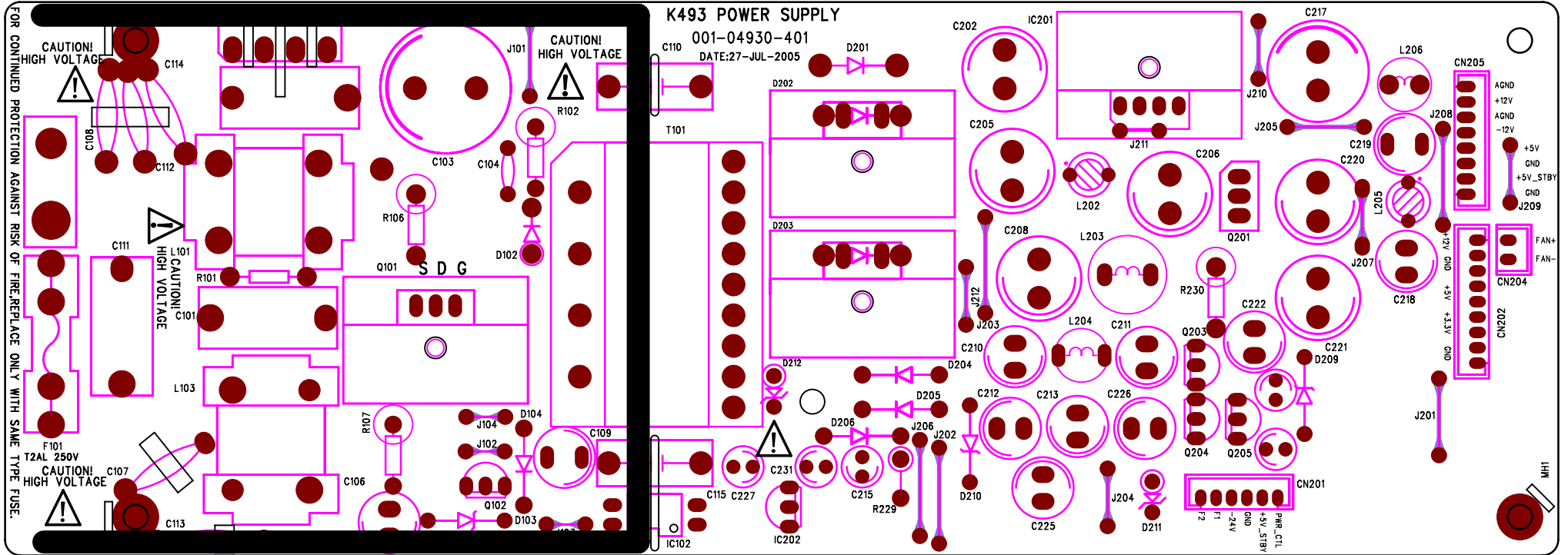
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	TEL: (03)867-0766 FAX: (03)878-7610		
MOTOR DRIVER			
Size	Document Number	Drawn	Rev
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Date:	日期: 七月 21, 2005	Sheet	9 of 9

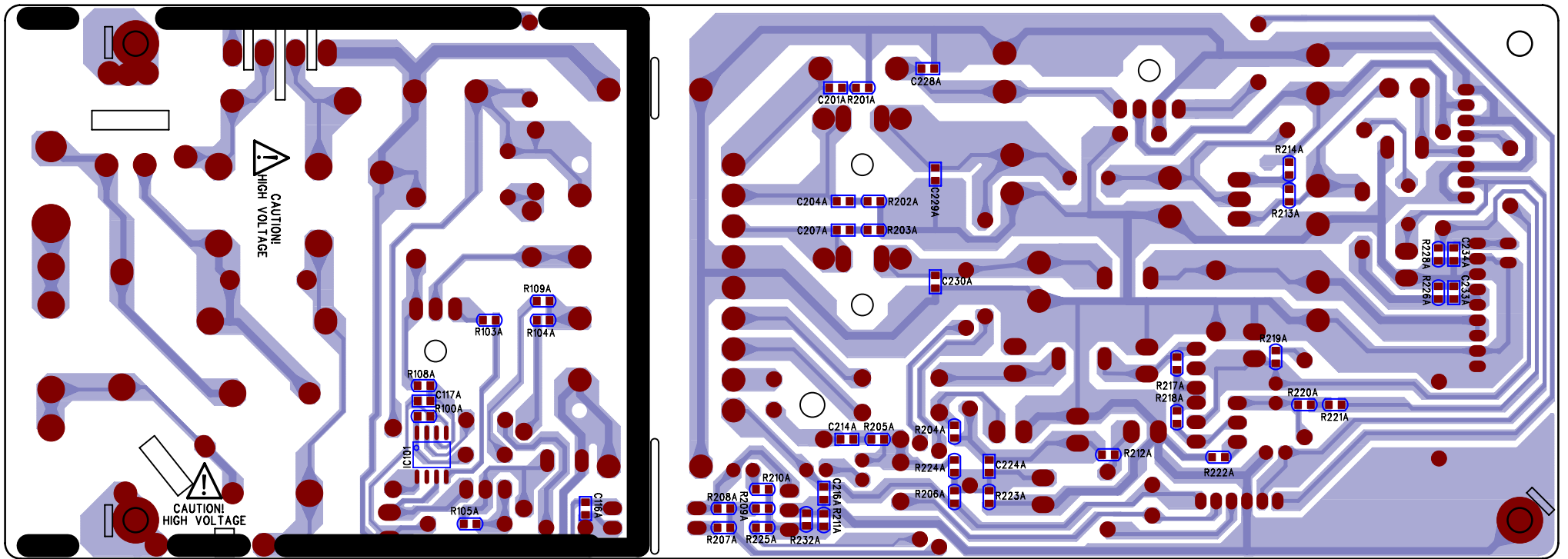
K493 POWER SUPPLY PCB(TOP VIEW)

K493 POWER SUPPLY

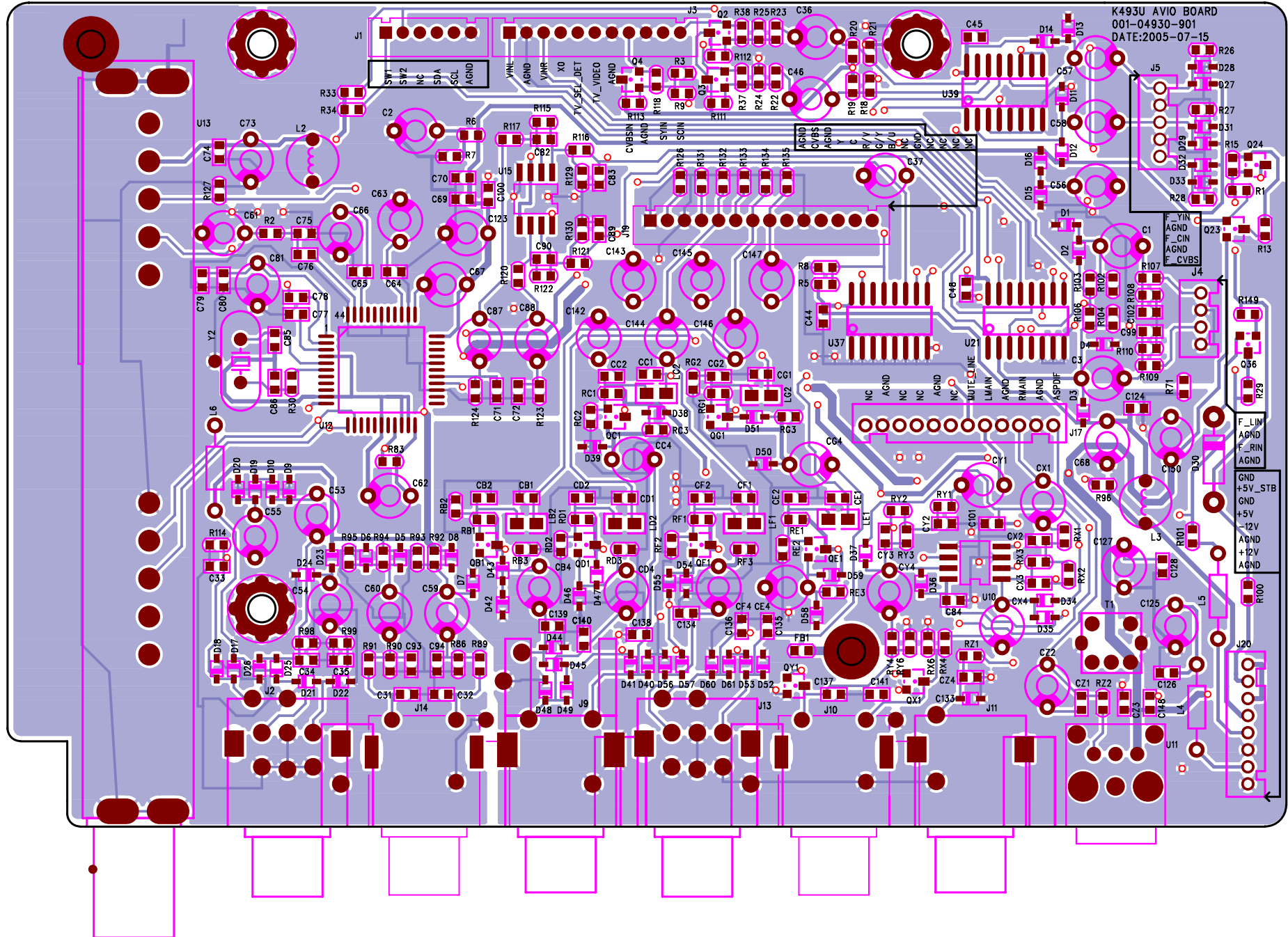
001-04930-401
DATE:27-JUL-2005



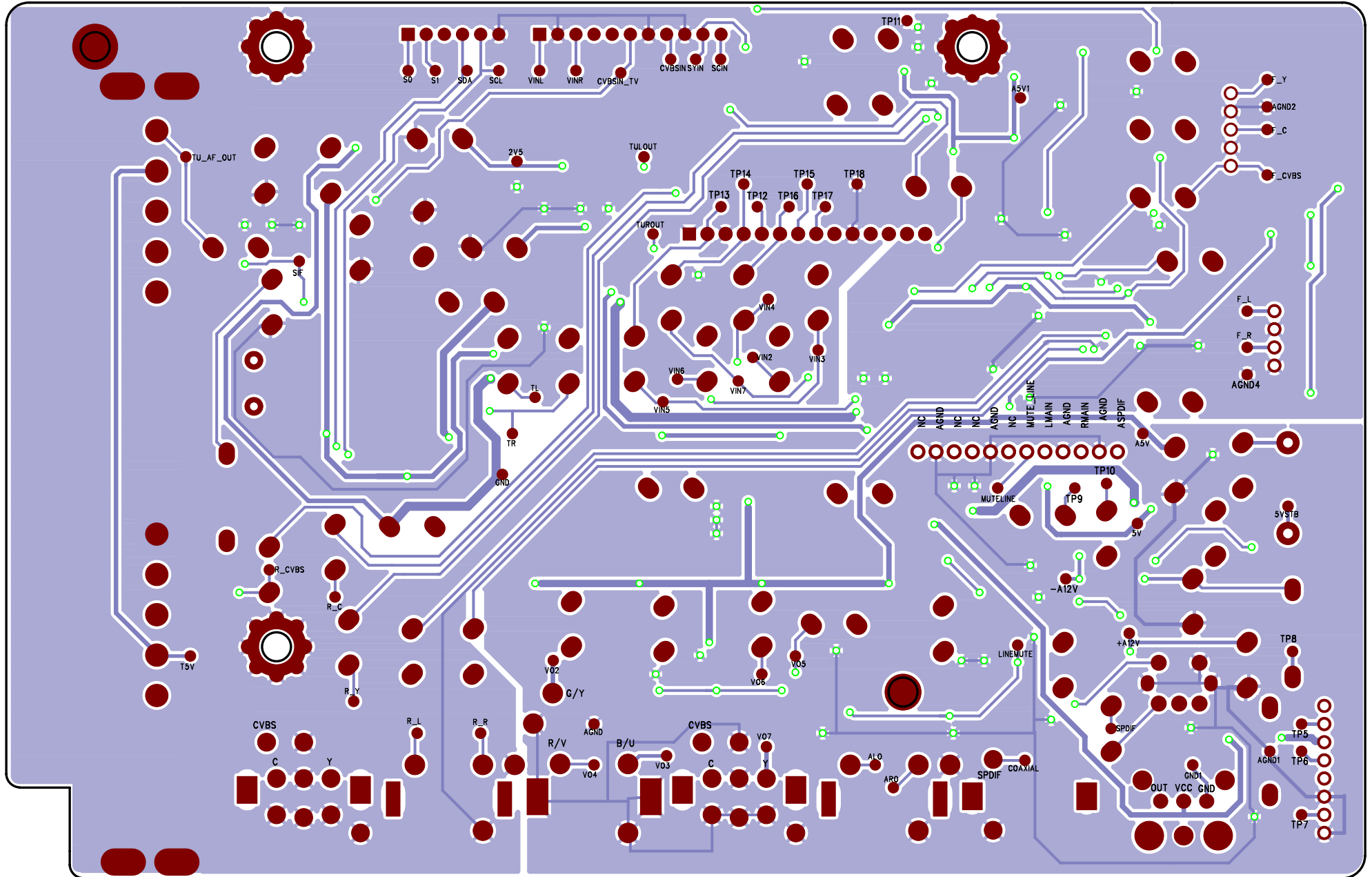
K493 POWER SUPPLY PCB(BOTTOM VIEW)



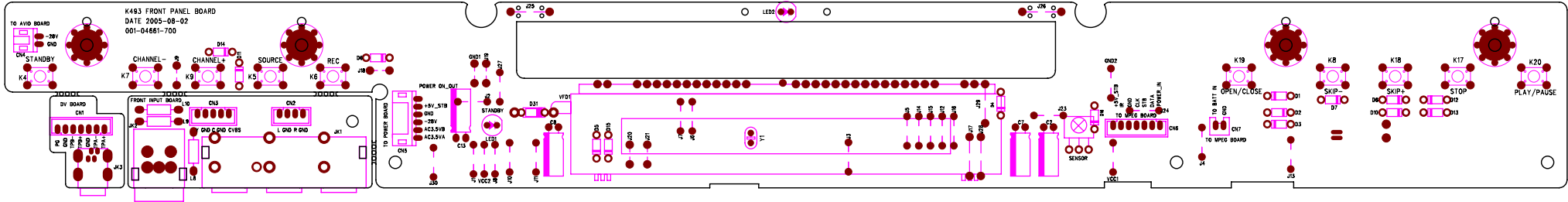
K493U AVIO BOARD(TOP VIEW)



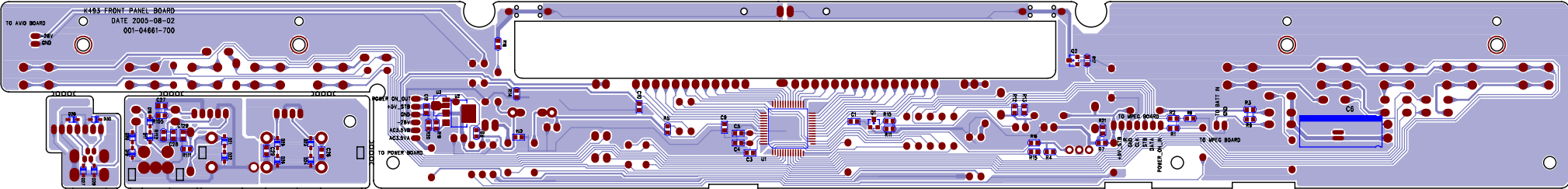
K493U AVIO BOARD(BOTTOM VIEW)



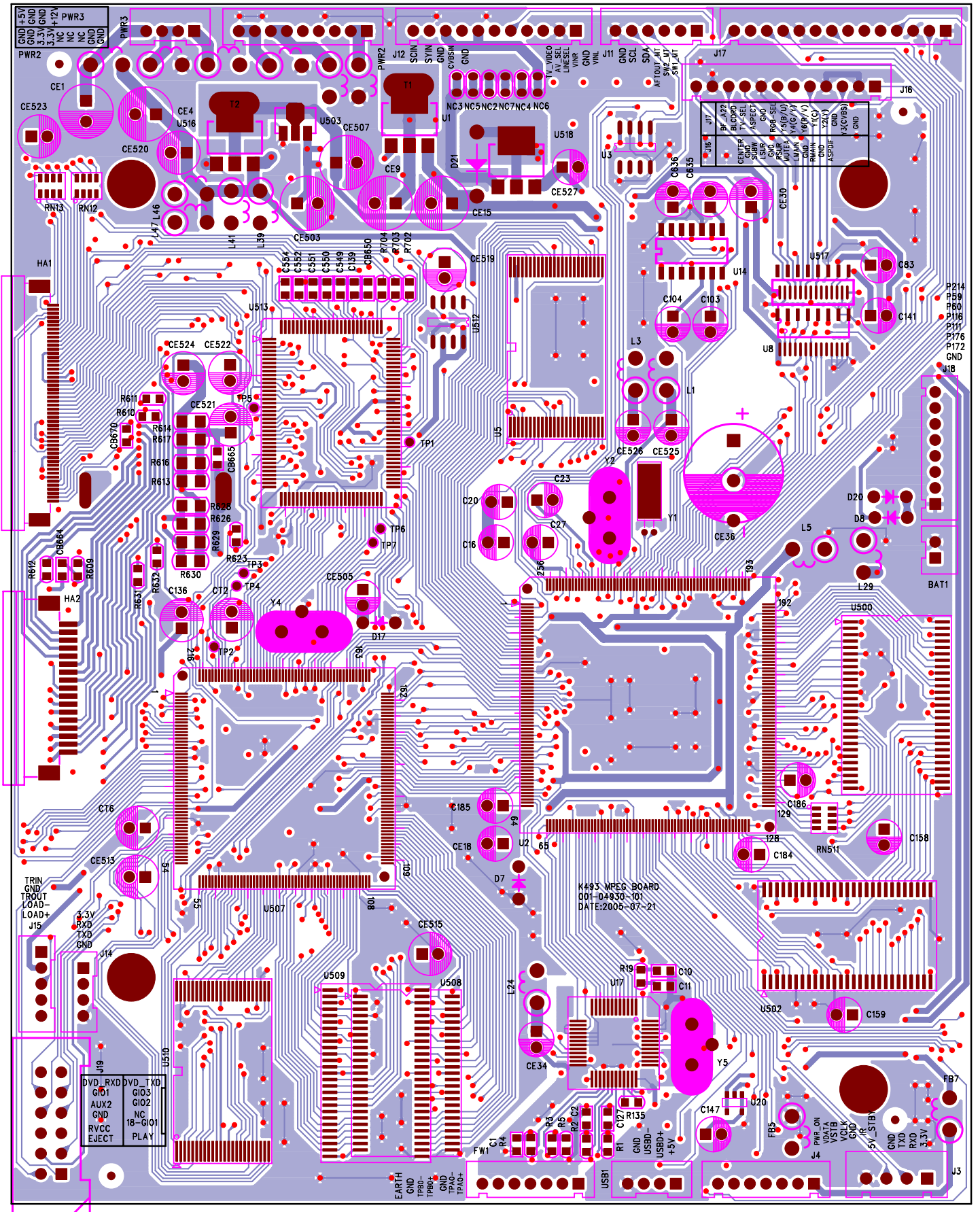
K466 CONTROL BOARD (TOP VIEW)



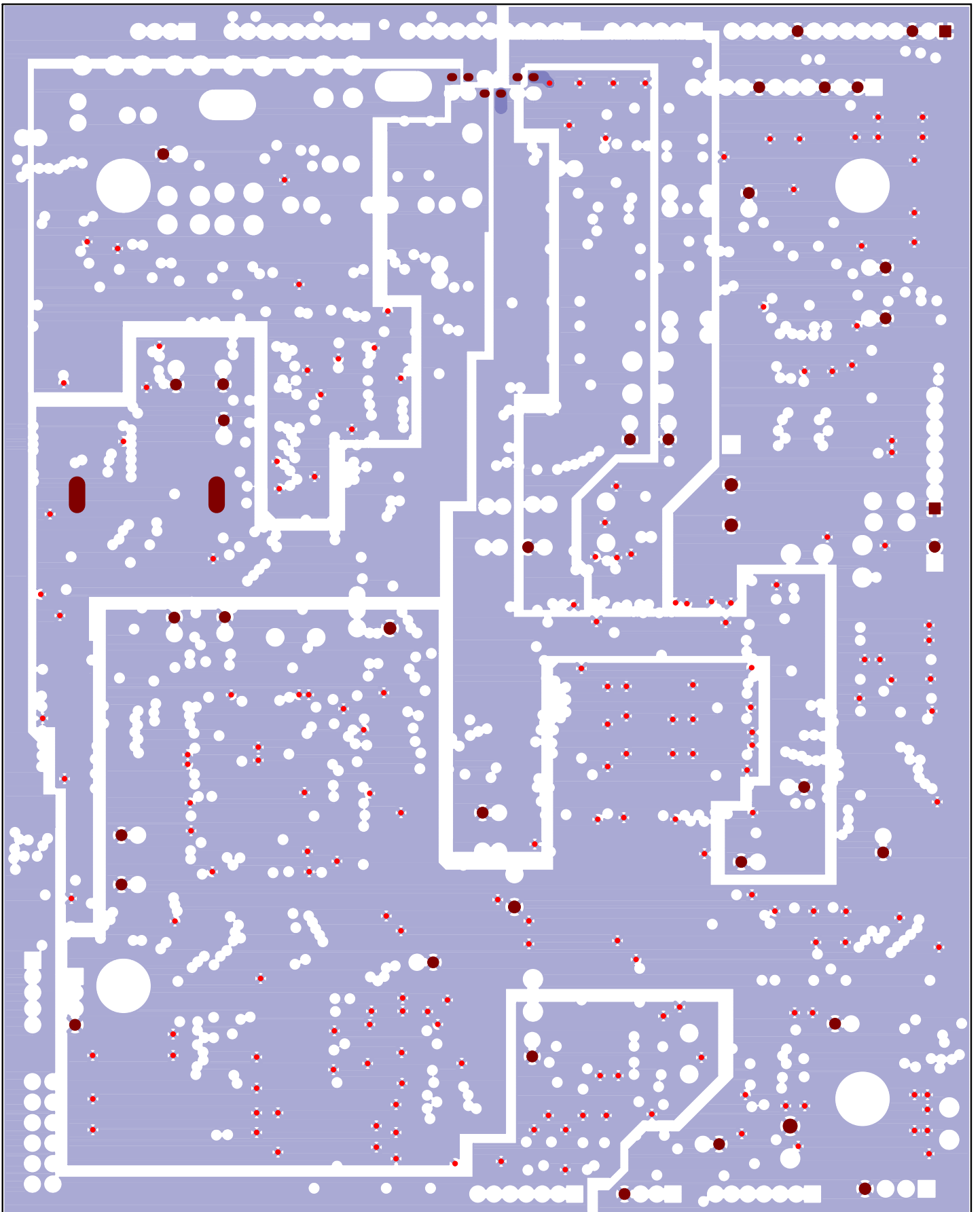
K466 CONTROL BOARD (BOTTOM VIEW)



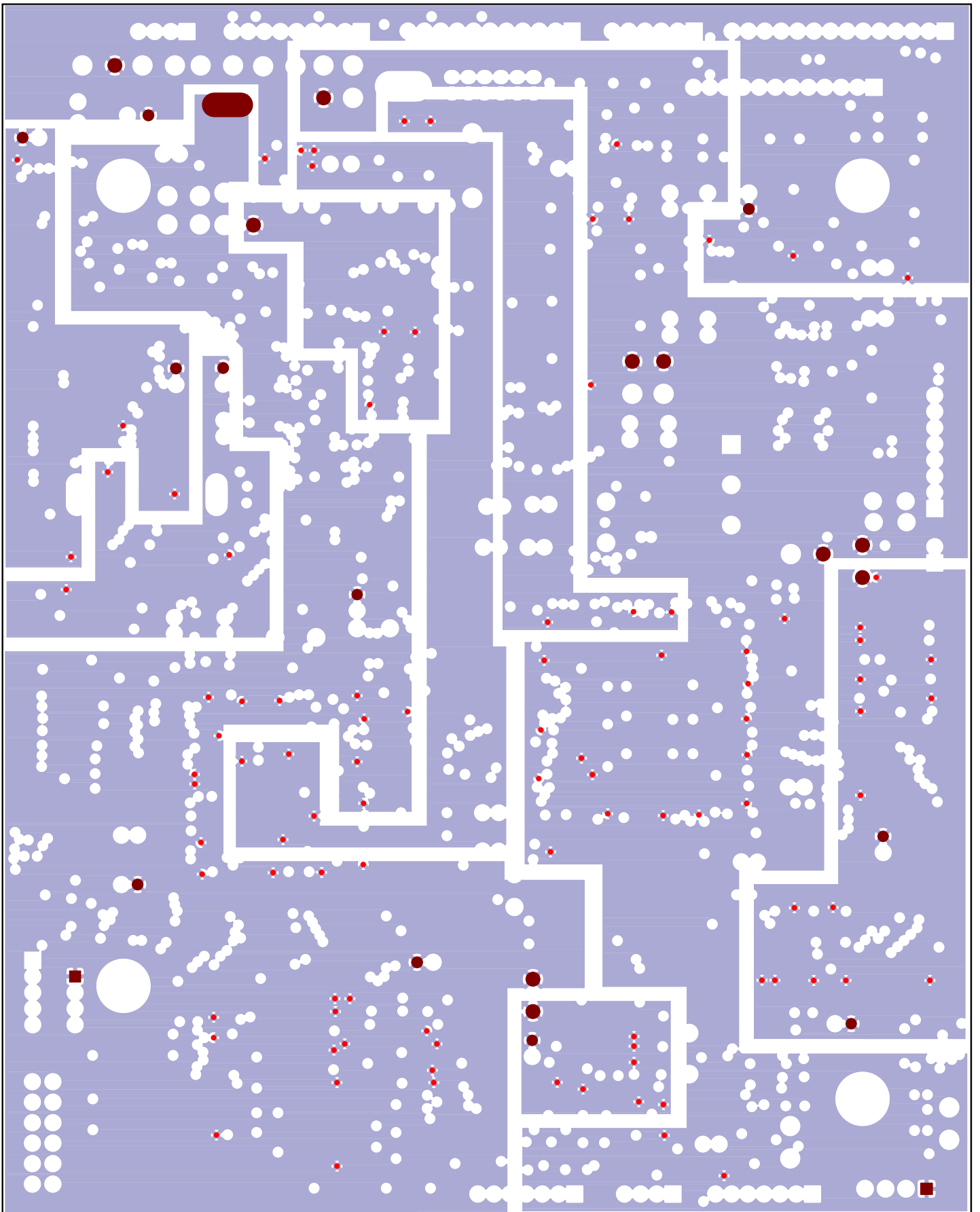
K493 MPEG PCB (TOP VIEW)



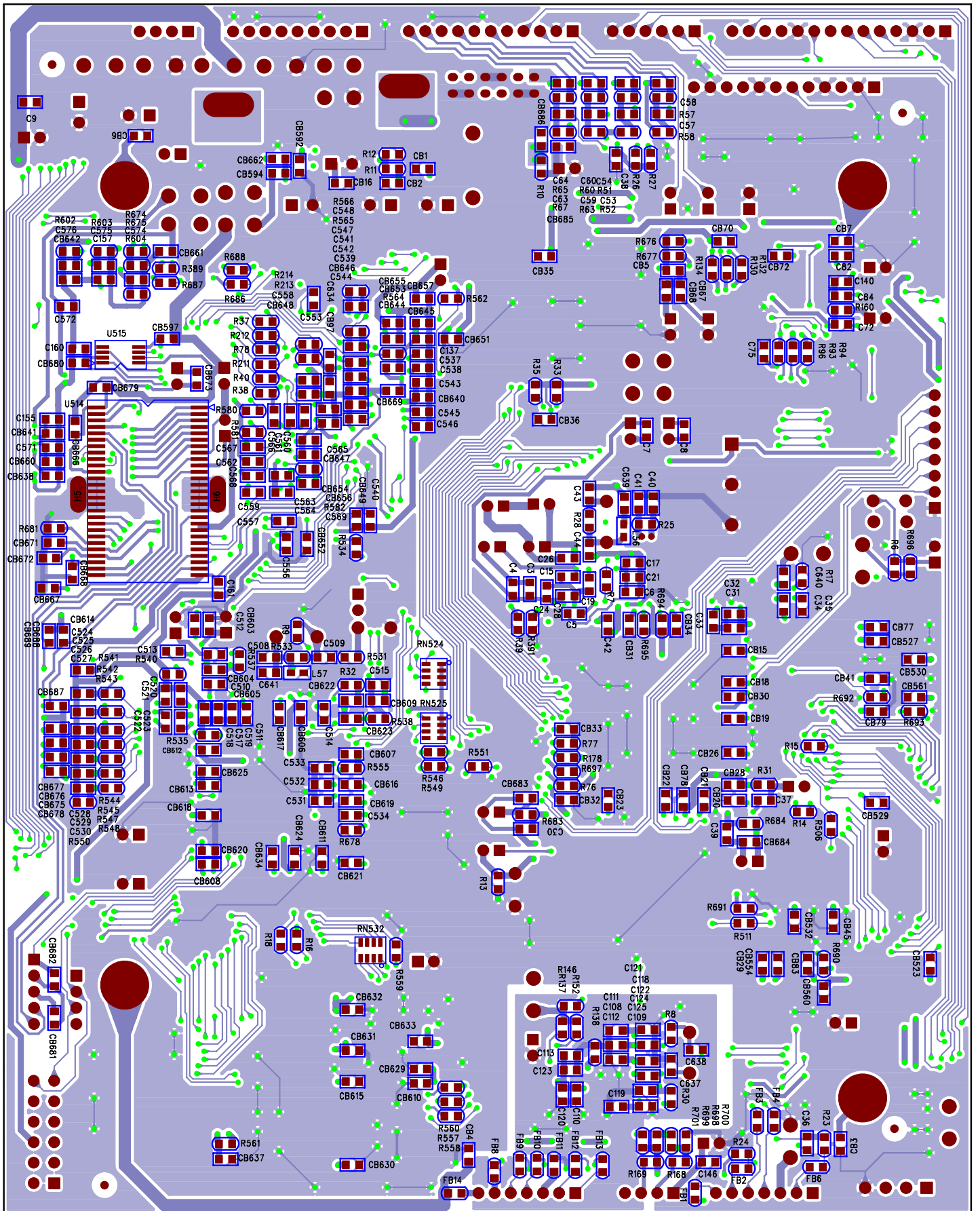
K493 MPEG PCB (GND VIEW)



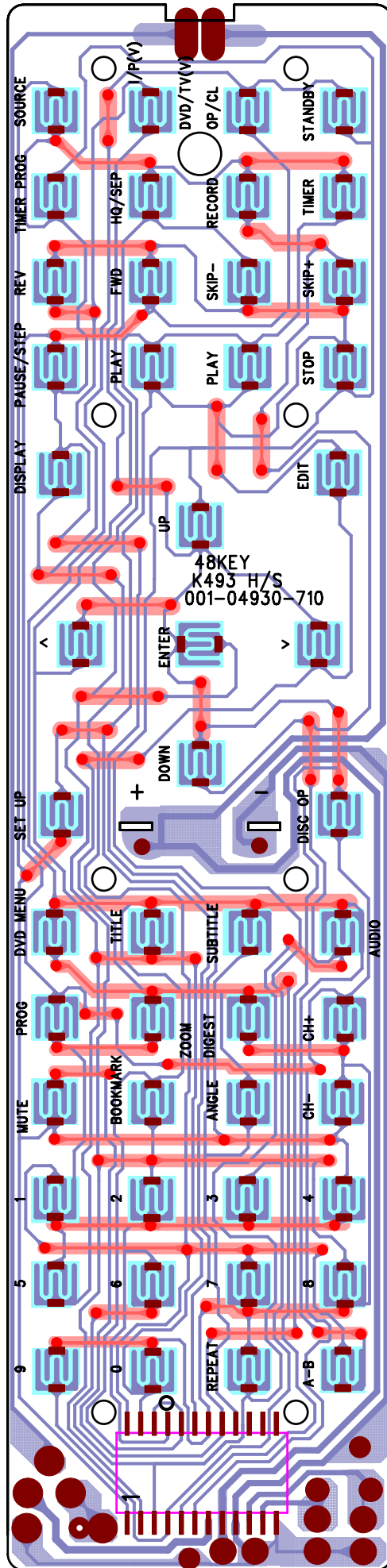
K493 MPEG PCB (VCC VIEW)



K493 MPEG PCB (BOTTOM VIEW)



K493 REMOTE CTRL. PCB(TOP VIEW)



K493 REMOTE CTRL. PCB(BOTTOM VIEW)

