

SERVICE MANUAL

DK1000S



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1. SAFETY PREAUTIONS

1.1 GENERAL GUIDELINES

1. When servicing, observe the original lead dress. if a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barrier, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.PREVENTION OF ELECTRO STATIC DISCHARGE(ESD)TO ELECTROSTATICALLY SENSITIVE(ES)DEVICES

Some semiconductor(solid state)devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive(ES)Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge(ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially availabel discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices,place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as anti-static (ESD protected)can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

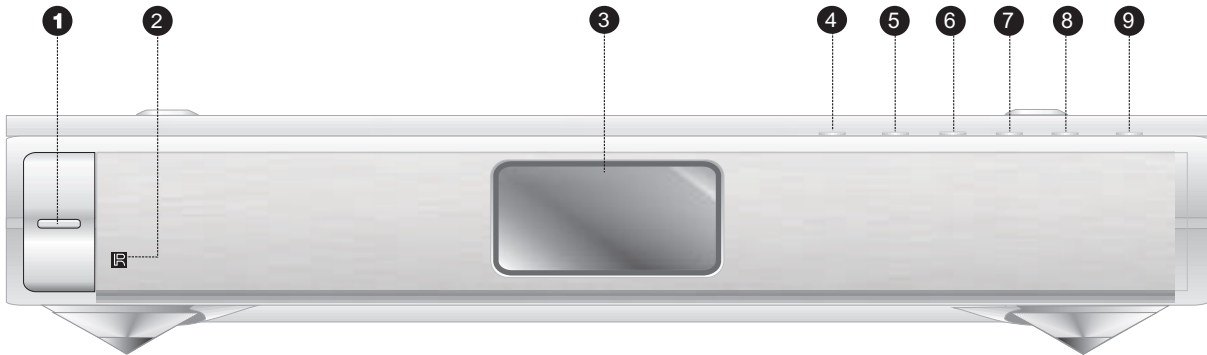
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity(ESD).

notice (1885x323x2 tiff)

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the schematic diagrams, exploded views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

■ Front Panel Illustration



❶ Power indicator

❹ OPEN/CLOSE button

❷ PREV button

❷ IR SENSOR

❺ PLAY/PAUSE button

❸ NEXT button

❸ Display window

❻ STOP button

❹ POWER switch

4. PREVENTION OF STATIC ELECTRICITY DISCHARGE

The laser diode in the traverse unit (optical pickup) may break down due to static electricity of clothes or human body. Use due caution to electrostatic breakdown when servicing and handling the laser diode.

4.1. Grounding for electrostatic breakdown prevention

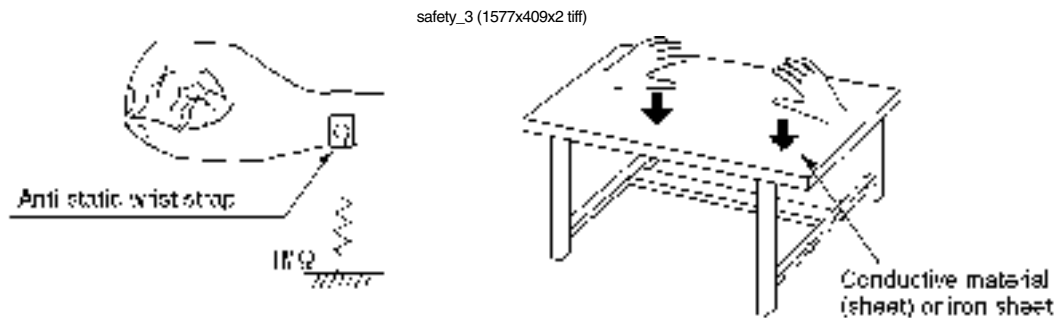
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

4.1.1. Worktable grounding

1. Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.

4.1.2. Human body grounding

- 1 Use the anti-static wrist strap to discharge the static electricity from your body.



4.1.3. Handling of optical pickup

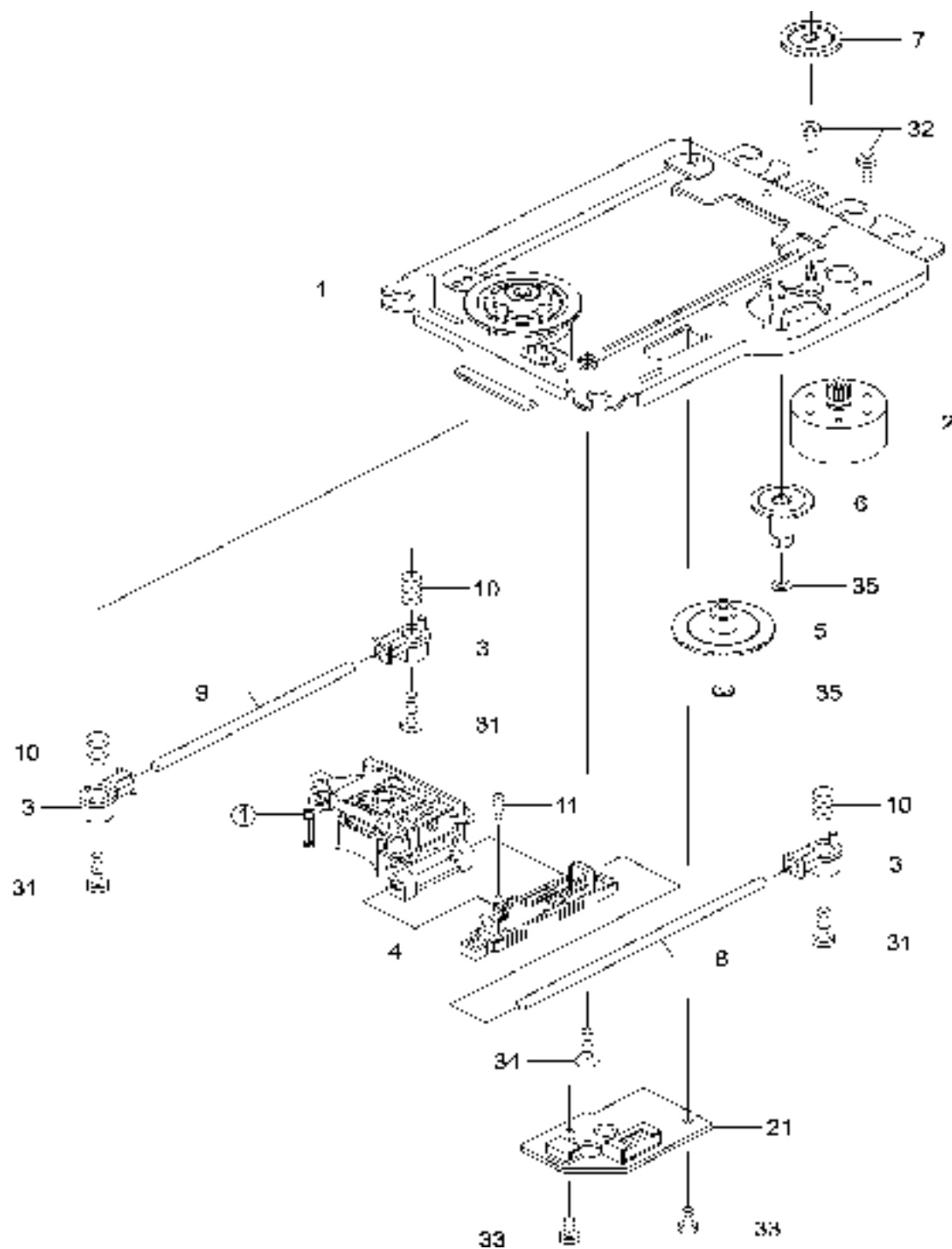
1. To keep the good quality of the optical pickup maintenance parts during transportation and before installation, the both ends of the laser diode are short-circuited. After replacing the parts with new ones, remove the short circuit according to the correct procedure. (See this Technical Guide).
2. Do not use a tester to check the laser diode for the optical pickup. Failure to do so will damage the laser diode due to the power supply in the tester.

4.2. Handling precautions for Traverse Unit (Optical Pickup)

1. Do not give a considerable shock to the traverse unit (optical pickup) as it has an extremely high-precision structure.
2. When replacing the optical pickup, install the flexible cable and cut its short lead with a nipper. See the optical pickup replacement procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventing static electricity and install a new unit. Connect the connector as short times as possible.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the cable.
4. The half-fixed resistor for laser power adjustment cannot be adjusted. Do not turn the resistor.

5. Assembling and disassembling the mechanism unit

5.1 Optical pickupUnit Exploded View and Part List



Pic (1)

Materials to Pic (1)

No.	PARTS CODE	PARTS NAME	Q'ty
1	14692200	SF-HD60	1
2	1EA0311A06300	ASSY, CHASSIS, COMPLETE	1
3	1EA0M10A15500	ASSY, MOTOR, SLED	1
Or	1EA0M10A15501	ASSY, MOTOR, SLED	1
4	1EA2451A24700	HOLDER, SHAFT	3
5	1EA2511A29100	GEAR, RACK	1
6	1EA2511A29200	GEAR, DRIVE	1
7	1EA2511A29300	GEAR, MIDDLE, A	1
8	1EA2511A29400	GEAR, MIDDLE, B	1
9	1EA2744A03000	SHAFT, SLIDE	1
10	1EA2744A03100	SHAFT, SLIDE, SUB	1
11	1EA2812A15300	SPRING, COMP, TYOUSEI	3
12	1EA2812A15400	SPRING, COMP, RACK	1
21	1EA0B10B20100	ASSY, PWB	1
Or	1EA0B10B20200	ASSY, PWB	1
31	SEXEA25700---	SPECIAL SCREW BIN+-M2X11	3
32	SEXEA25900---	SPECIAL SCREW M1.7X2.2	2
33	SFBPN204R0SE-	SCR S-TPG PAN 2X4	2
34	SFSFN266R0SE-	SCR S-TPG FLT 2.6X6	1
35	SWXEA15400---	SPECIAL WASHER 1.8X4 X0.25	2

[illegible]

Note : This parts list is not for service parts supply.

5.2 MISCELLANEOUS

5.2.1 Protection of the LD(Laser diode)

Short the parts of LD circuit pattern by soldering.



5.2.2 Cautions on assembly and adjustment

Make sure that the workbenches,jigs,tips,tips of soldering irons and measuring instruments are grounded,and that personnel wear wrist straps for ground.

Open the LD shortlands quickly with a soldering iron after a circuit is connected.

Keep the power source of the pick-up protected from internal and external sources of electrical noise.

Refrain from operation and storage in atmospheres containing corrosive gases (such as H_2S , SO_2 , NO_2 and Cl_2) or toxic gases or in locations containing substances (especially from the organic silicon, cyan, formalin and phenol groups) which emit toxic gases. It is particularly important to ensure that none of the above substances are present inside the unit. Otherwise, the motor may no longer run.

6.Electrical Confirmation

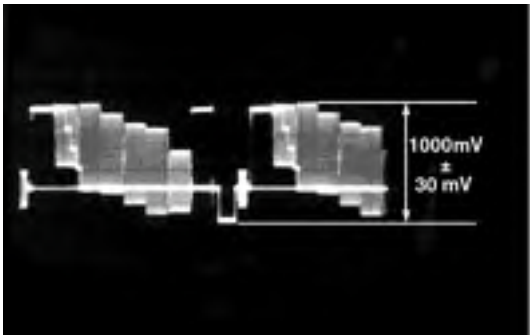
6.1. Video Output (Luminance Signal) Confirmation

DO this confirmation after replacing a P.C.B.

Measurement point	Mode	Disc
Video output terminal	Color bar 75% PLAY(Title 46):DVDT-S15 PLAY(Title 12):DVDT-S01	DVDT-S15 or DVDT-S01
Measuring equipment,tools	Confirmation value	
200mV/dir,10 μ sec/dir	1000mVp-p $\pm$ 30mV	

Purpose:To maintain video signal output compatibility.

- 1.Connect the oscilloscope to the video output terminal and terminate at 75 ohms.
- 2.Confirm that luminance signal(Y+S)level is 1000mVp-p $\pm$ 30mV



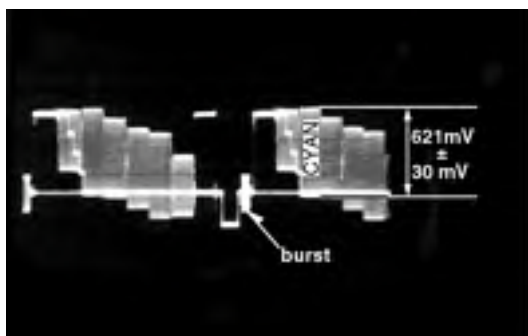
6.2 Video Output(Chrominance Signal) Confirmation

Do the confirmation after replacing P.C.B.

Measurement point	Mode	Disc
Video output terminal	Color bar 75% PLAY(Title 46):DVDT-S15 PLAY(Title 12):DVDT-S01	DVDT-S15 or DVDT-S01
Measuring equipment,tools	Confirmation value	
Screwdriver,Oscilloscope 200mV/dir,10 μ sec/dir	621mVp-p $\pm$ 30mV	

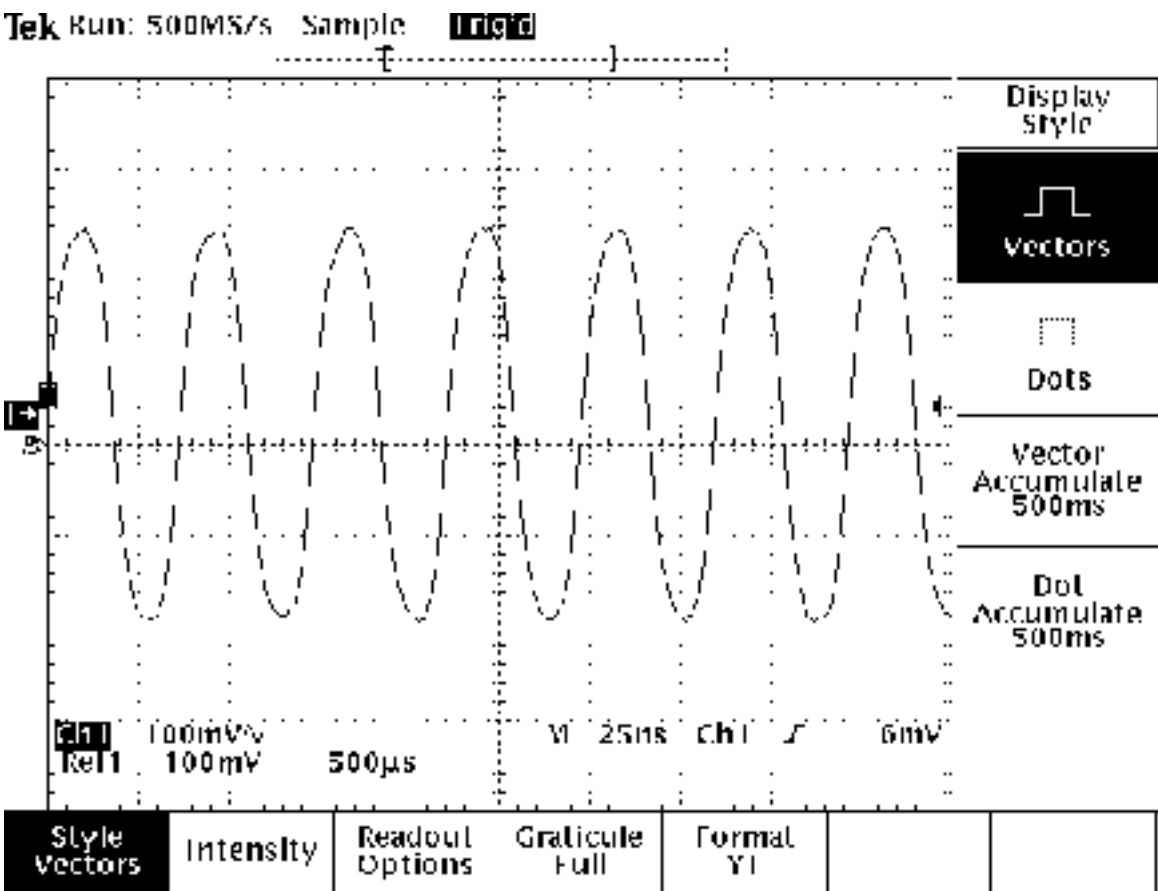
Purpose:To maintain video signal output compatibility.

- 1.Connect the oscilloscope to the video output terminal and terminate at 75 ohme.
- 2.Confirm that the chrominance signal(C)level is 621 mVp-p $\pm$ 30mV

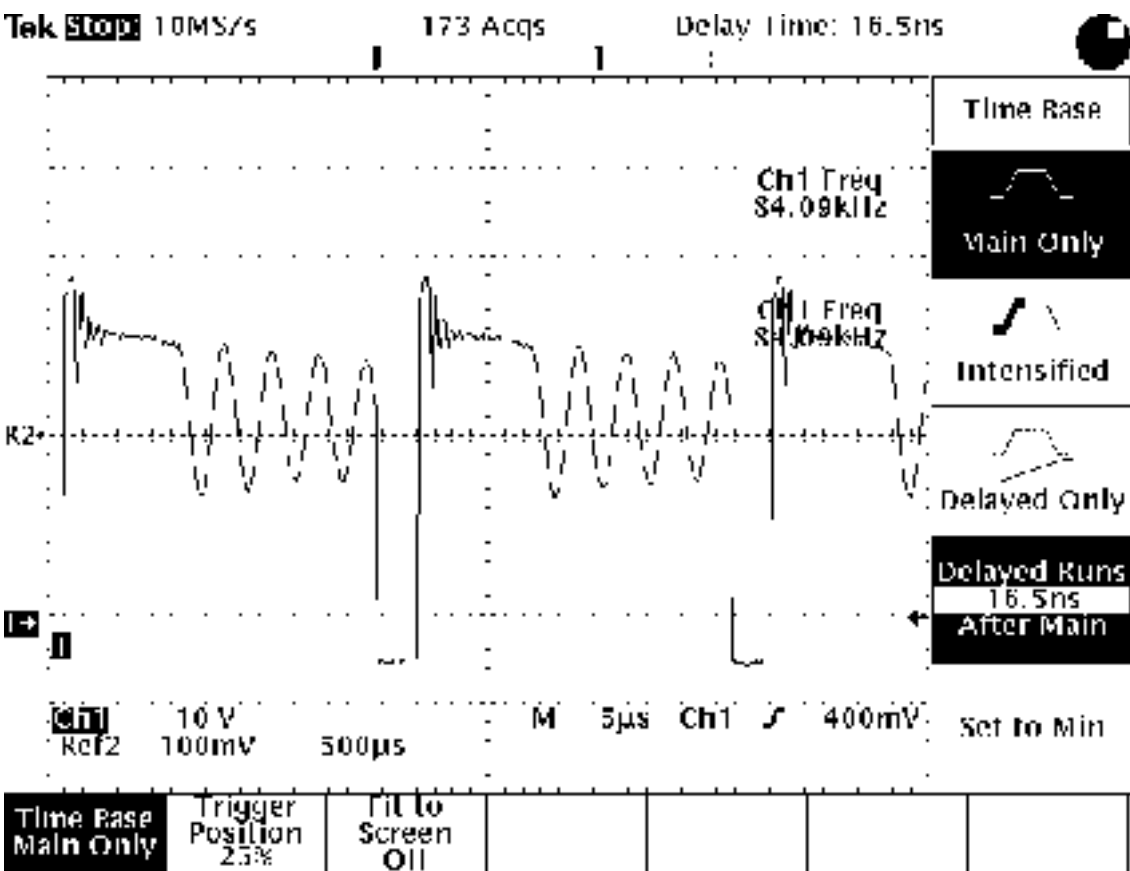


7.MPEG BOARD CHECK WAVEFORM

7.1 27MHz WAVEFORM



7.2 IC TEA1523 PIN.8 WAVEFORM DIAGRAM



8.2 MT1389

MT1389

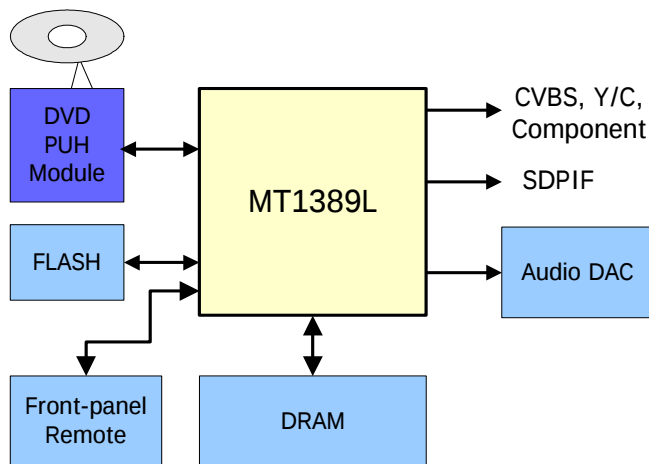
Progressive-Scan DVD Player SOC

Specifications are subject to change without notice

MediaTek MT1389 is a DVD player system-on-chip (SOC) which incorporates advanced features like high quality TV encoder and state-of-art de-interlace processing. The MT1389 enables consumer electronics manufacturers to build high quality, cost-effective DVD players, portable DVD players or any other home entertainment audio/video devices.

Based on MediaTek's world-leading DVD player SOC architecture, the MT1389 is the 3rd generation of the DVD player SOC. It integrates the MediaTek 2nd generation front-end analog RF amplifier and the Servo/MPEG AV decoder.

The progressive scan of the MT1389 utilized a proprietary advanced motion-adaptive de-interlace algorithm to achieve the best movie/video playback. It can easily detect 3:2/2:2 pull down source and restore the correct original pictures. It also supports a patent-pending edge-preserving algorithm to remove the saw-tooth effect.



DVD Player System Diagram Using MT1389

Key Features

- RF/Servo/MPEG Integration
- High Performance Audio Processor
- Motion-Adaptive, Edge-Preserving De-interlace
- 108MHz/12-bit, 6 CH TV Encoder

Applications

- Standard DVD Players
- Portable DVD Players

General Feature List

- Super Integration DVD player single chip
 - High performance analog RF amplifier
 - Servo controller and data channel processing
 - MPEG-1/MPEG-2/JPEG video
 - Dolby AC-3/DTS/DVD-Audio
 - Unified memory architecture
 - Versatile video scaling & quality enhancement
 - OSD & Sub-picture
 - 2-D graphic engine
 - Built-in clock generator
 - Built-in high quality TV encoder
 - Built-in progressive video processor
 - Audio effect post-processor
 - Audio input port
- High Performance Analog RF Amplifier
 - Programmable fc
 - Dual automatic laser power control
 - Defect and blank detection
 - RF level signal generator
- Speed Performance on Servo/Channel Decoding
 - DVD-ROM up to 4XS
 - CD-ROM up to 24XS
- Channel Data Processor
 - Digital data slicer for small jitter capability
 - Built-in high performance data PLL for channel data demodulation
 - EFM/EFM+ data demodulation
 - Enhanced channel data frame sync protection & DVD-ROM sector sync protection
- Servo Control and Spindle Motor Control
 - Programmable frequency error gain and phase error gain of spindle PLL to control spindle motor on CLV and CAV mode
 - Built-in ADCs and DACs for digital servo control
 - Provide 2 general PWM
 - Tray control can be PWM output or digital output
- Embedded Micro controller
 - Built-in 8032 micro controller
 - Built-in internal 373 and 8-bit programmable lower address port
- 1024-bytes on-chip RAM
- Up to 4M bytes FLASH-programming interface
- Supports 5/3.3-Volt. FLASH interface
- Supports power-down mode
- Supports additional serial port
- DVD-ROM/CD-ROM Decoding Logic
 - High-speed ECC logic capable of correcting one error per each P-codeword or Q-codeword
 - Automatic sector Mode and Form detection
 - Automatic sector Header verification
 - Decoder Error Notification Interrupt that signals various decoder errors
 - Provide error correction acceleration
- Buffer Memory Controller
 - Supports 16Mb/32Mb/64Mb/128Mb SDRAM
 - Supports 16-bit SDRAM data bus
 - Provide the self-refresh mode SDRAM
 - Block-based sector addressing
 - Support 3.3 Volt. DRAM Interface
- Video Decode
 - Decodes MPEG1 video and MPEG2 main level, main profile video (720/480 and 720x576)
 - Smooth digest view function with I, P and B picture decoding
 - Baseline, extended-sequential and progressive JPEG image decoding
 - Support CD-G titles
- Video/OSD/SPU/HLI Processor
 - Arbitrary ratio vertical/horizontal scaling of video, from 0.25X to 256X
 - 65535/256/16/4/2-color bitmap format OSD,
 - 256/16 color RLC format OSD
 - Automatic scrolling of OSD image
 - Slide show transition as DVD-Audio Specification
- 2-D Graphic Engine
 - Support decode Text and Bitmap
 - Support line, rectangle and gradient fill
 - Support bitblt
 - Chroma key copy operation
 - Clip mask

- Audio Effect Processing
 - Dolby Digital (AC-3)/EX decoding
 - DTS/DTS-ES decoding
 - MLP decoding for DVD-Audio
 - MPEG-1 layer 1/layer 2 audio decoding
 - MPEG-2 layer1/layer2 2-channel audio
 - High Definition Compatible Digital (HDCD)
 - Windows Media Audio (WMA)
 - Advanced Audio Coding (AAC)
 - Dolby ProLogic II
 - Concurrent multi-channel and downmix out
 - IEC 60958/61937 output
 - PCM / bit stream / mute mode
 - Custom IEC latency up to 2 frames
 - Pink noise and white noise generator
 - Karaoke functions
 - Microphone echo
 - Microphone tone control
 - Vocal mute/vocal assistant
 - Key shift up to +/- 8 keys
 - Chorus/Flanger/Harmony/Reverb
 - Channel equalizer
 - 3D surround processing include virtual surround and speaker separation
- TV Encoder
 - Six 108MHz/12bit DACs
 - Support NTSC, PAL-BDGHINM, PAL-60
 - Support 525p, 625p progressive TV format
 - Automatically turn off unconnected channels
 - Support PC monitor (VGA)
 - Support Macrovision 7.1 L1, Macrovision 525P and 625P
 - CGMS-A/WSS
 - Closed Caption
- Progressive Output
 - Automatic detect film or video source
 - 3:2 pull down source detection
 - Advanced Motion adaptive de-interlace
 - Edge Preserving
 - Minimum external memory requirement
- Audio Input
 - Line-in/SPDIF-in for versatile audio processing
- Outline
 - 256-pin LQFP package
 - 3.3/1.8-Volt. Dual operating voltages

8.3 Am29LV160D

16 Megabit (2 M x 8-Bit/1 M x 16-Bit) CMOS 3.0 Volt-only Boot Sector Flash Memory

DISTINCTIVE CHARACTERISTICS

■ Single power supply operation

- Full voltage range: 2.7 to 3.6 volt read and write operations for battery-powered applications
- Regulated voltage range: 3.0 to 3.6 volt read and write operations and for compatibility with high performance 3.3 volt microprocessors

■ Manufactured on 0.23 μ m process technology

- Fully compatible with 0.32 μ m Am29LV160B device

■ High performance

- Access times as fast as 70 ns

■ Ultra low power consumption (typical values at 5 MHz)

- 200 nA Automatic Sleep mode current
- 200 nA standby mode current
- 9 mA read current
- 20 mA program/erase current

■ Flexible sector architecture

- One 16 Kbyte, two 8 Kbyte, one 32 Kbyte, and thirty-one 64 Kbyte sectors (byte mode)
- One 8 Kword, two 4 Kword, one 16 Kword, and thirty-one 32 Kword sectors (word mode)
- Supports full chip erase
- Sector Protection features:
 - A hardware method of locking a sector to prevent any program or erase operations within that sector
 - Sectors can be locked in-system or via programming equipment
 - Temporary Sector Unprotect feature allows code changes in previously locked sectors

■ Unlock Bypass Program Command

- Reduces overall programming time when issuing multiple program command sequences

■ Top or bottom boot block configurations available

■ Embedded Algorithms

- Embedded Erase algorithm automatically preprograms and erases the entire chip or any combination of designated sectors
- Embedded Program algorithm automatically writes and verifies data at specified addresses

■ Minimum 1,000,000 write cycle guarantee per sector

■ 20-year data retention at 125°C

- Reliable operation for the life of the system

■ Package option

- 48-ball FBGA
- 48-pin TSOP
- 44-pin SO

■ CFI (Common Flash Interface) compliant

- Provides device-specific information to the system, allowing host software to easily reconfigure for different Flash devices

■ Compatibility with JEDEC standards

- Pinout and software compatible with single-power supply Flash
- Superior inadvertent write protection

■ Data# Polling and toggle bits

- Provides a software method of detecting program or erase operation completion

■ Ready/Busy# pin (RY/BY#)

- Provides a hardware method of detecting program or erase cycle completion (not available on 44-pin SO)

■ Erase Suspend/Erase Resume

- Suspends an erase operation to read data from, or program data to, a sector that is not being erased, then resumes the erase operation

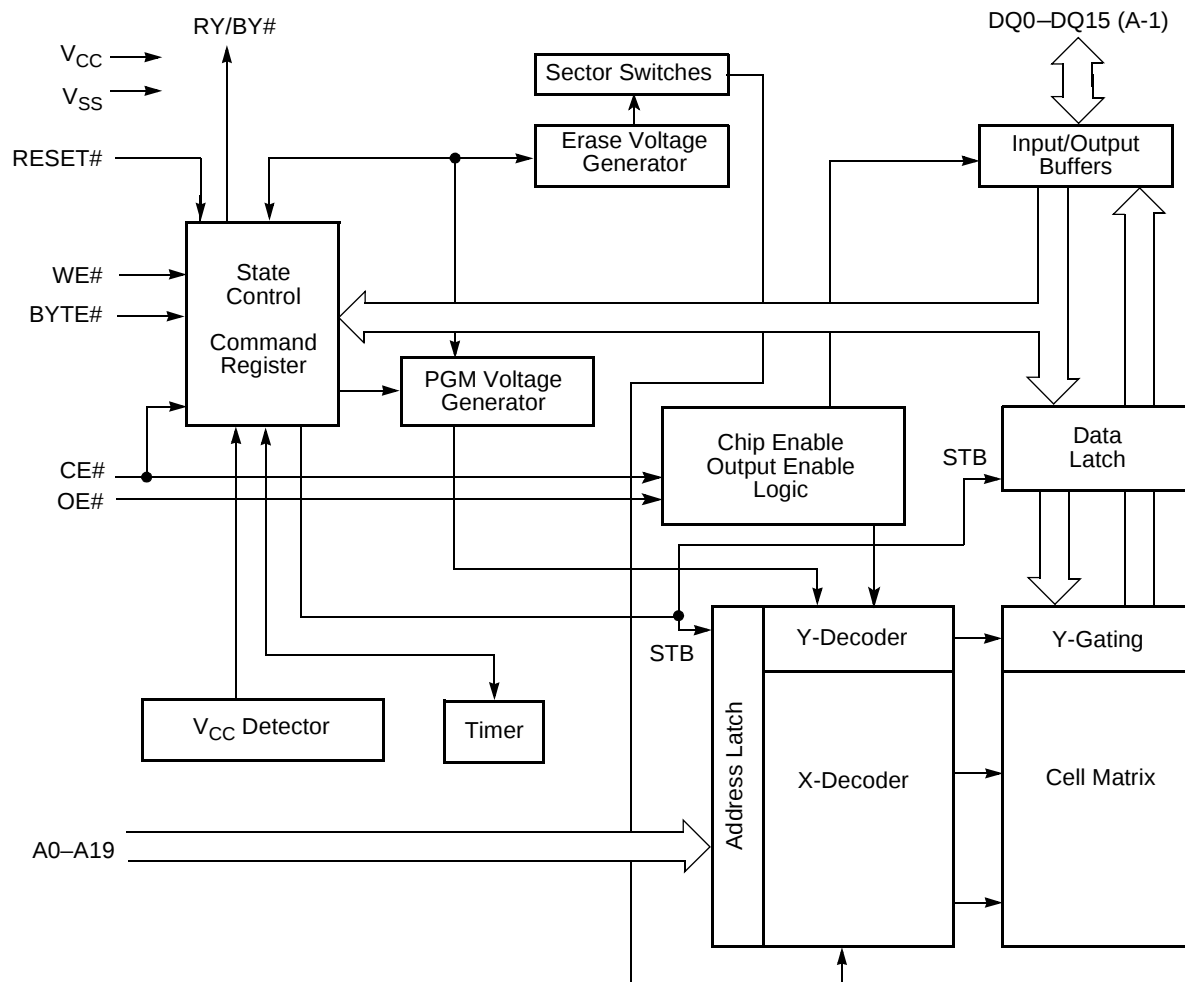
■ Hardware reset pin (RESET#)

- Hardware method to reset the device to reading array data

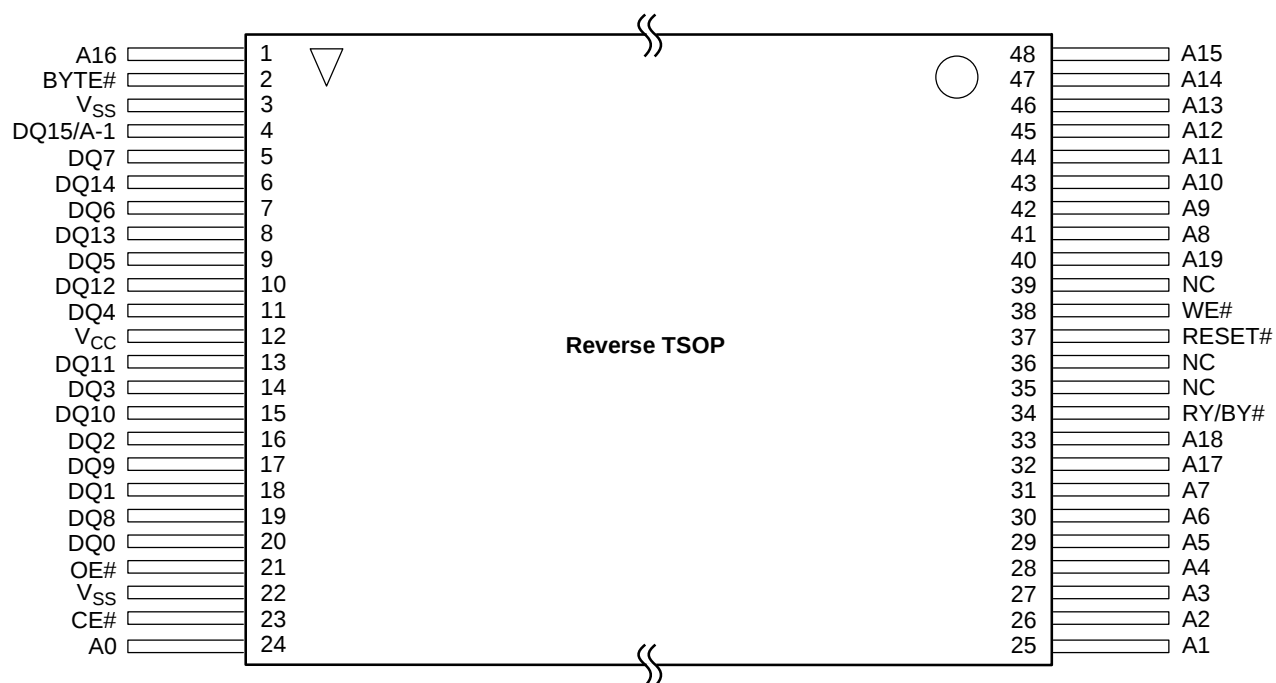
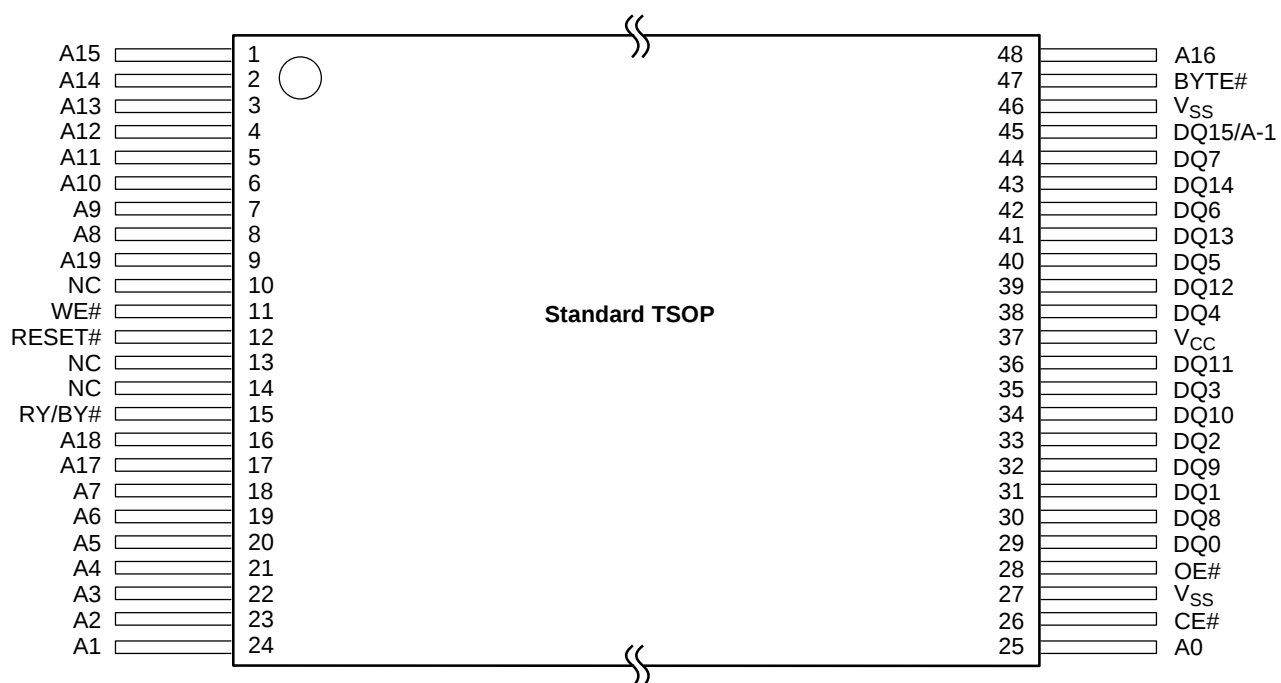
PRODUCT SELECTOR GUIDE

Family Part Number		Am29LV160D		
Speed Option	Voltage Range: $V_{CC} = 2.7\text{--}3.6\text{ V}$	-70	-90	-120
Max access time, ns (t_{ACC})		70	90	120
Max CE# access time, ns (t_{CE})		70	90	120
Max OE# access time, ns (t_{OE})		30	35	50

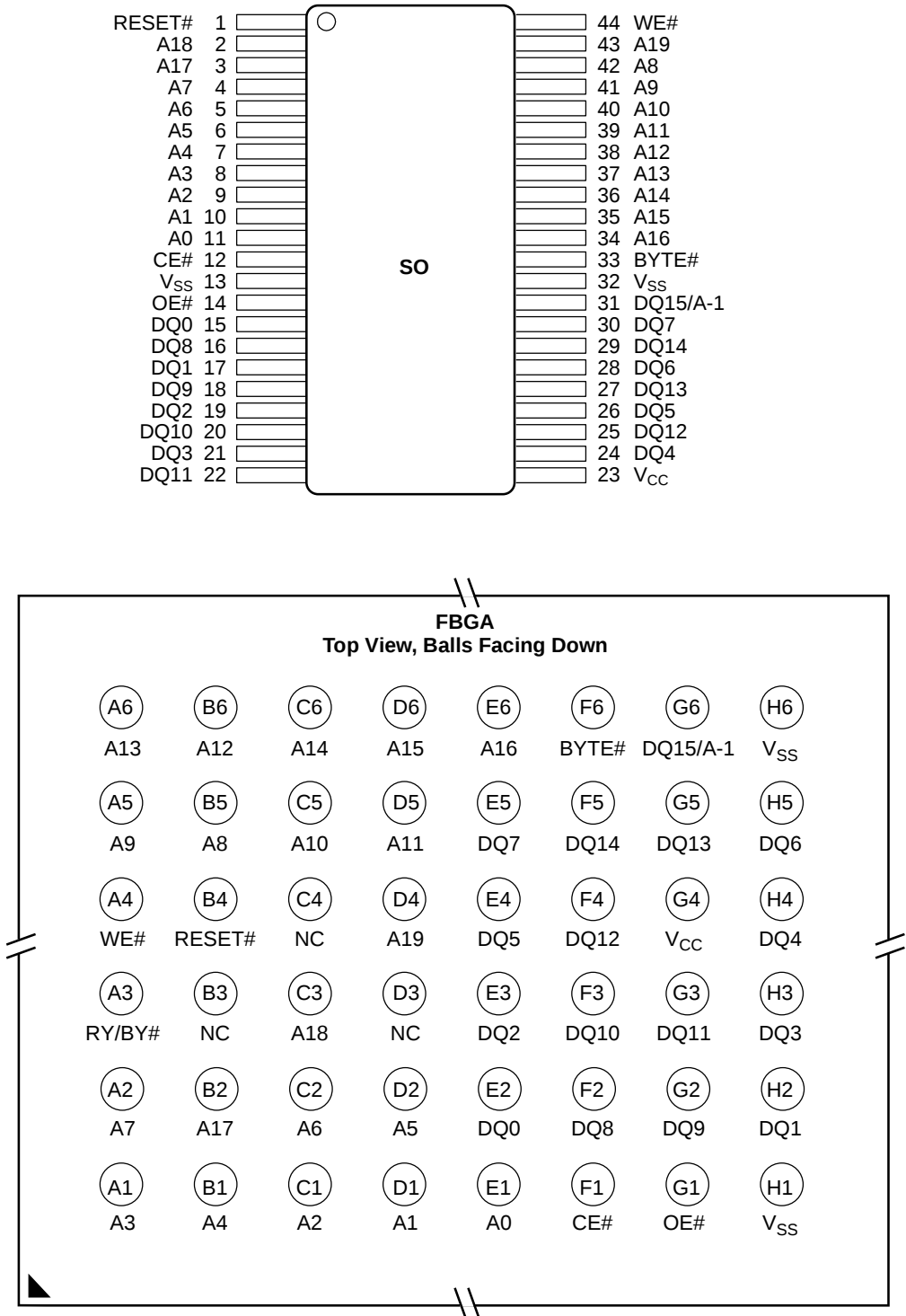
Note: See “AC Characteristics” for full specifications.

BLOCK DIAGRAM


CONNECTION DIAGRAMS



CONNECTION DIAGRAMS



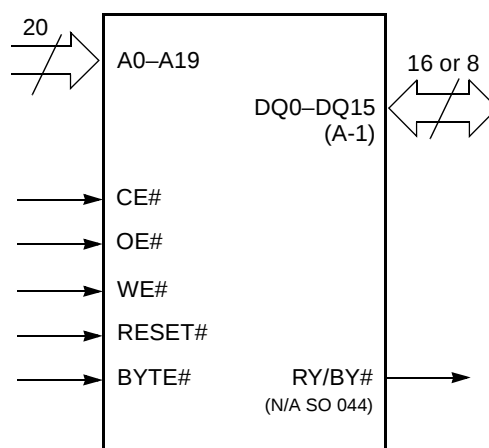
Special Handling Instructions

Special handling is required for Flash Memory products in FBGA packages.

Flash memory devices in FBGA packages may be damaged if exposed to ultrasonic cleaning methods. The package and/or data integrity may be compromised if the package body is exposed to temperatures above 150°C for prolonged periods of time.

PIN CONFIGURATION

A0–A19	=	20 addresses
DQ0–DQ14	=	15 data inputs/outputs
DQ15/A-1	=	DQ15 (data input/output, word mode), A-1 (LSB address input, byte mode)
BYTE#	=	Selects 8-bit or 16-bit mode
CE#	=	Chip enable
OE#	=	Output enable
WE#	=	Write enable
RESET#	=	Hardware reset pin
RY/BY#	=	Ready/Busy output (N/A SO 044)
V _{CC}	=	3.0 volt-only single power supply (see Product Selector Guide for speed options and voltage supply tolerances)
V _{SS}	=	Device ground
NC	=	Pin not connected internally

LOGIC SYMBOL

8.4 HY57V641620HG

DESCRIPTION

The Hyundai HY57V641620HG is a 67,108,864-bit CMOS Synchronous DRAM, ideally suited for the main memory applications which require large memory density and high bandwidth. HY57V641620HG is organized as 4banks of 1,048,576x16.

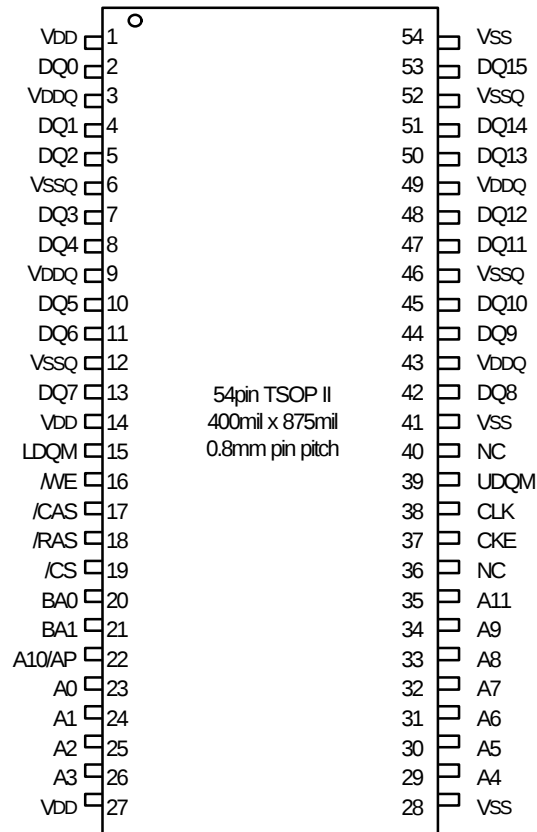
HY57V641620HG is offering fully synchronous operation referenced to a positive edge of the clock. All inputs and outputs are synchronized with the rising edge of the clock input. The data paths are internally pipelined to achieve very high bandwidth. All input and output voltage levels are compatible with LVTTL.

Programmable options include the length of pipeline (Read latency of 2 or 3), the number of consecutive read or write cycles initiated by a single control command (Burst length of 1,2,4,8 or Full page), and the burst count sequence(sequential or interleave). A burst of read or write cycles in progress can be terminated by a burst terminate command or can be interrupted and replaced by a new burst read or write command on any cycle. (This pipelined design is not restricted by a `2N` rule.)

FEATURES

- Single 3.3±0.3V power supply ^{Note)}
- All device pins are compatible with LVTTL interface
- JEDEC standard 400mil 54pin TSOP-II with 0.8mm of pin pitch
- All inputs and outputs referenced to positive edge of system clock
- Data mask function by UDQM or LDQM
- Internal four banks operation
- Auto refresh and self refresh
- 4096 refresh cycles / 64ms
- Programmable Burst Length and Burst Type
 - 1, 2, 4, 8 or Full page for Sequential Burst
 - 1, 2, 4 or 8 for Interleave Burst
- Programmable $\overline{\text{CAS}}$ Latency ; 2, 3 Clocks

PIN CONFIGURATION



PIN DESCRIPTION

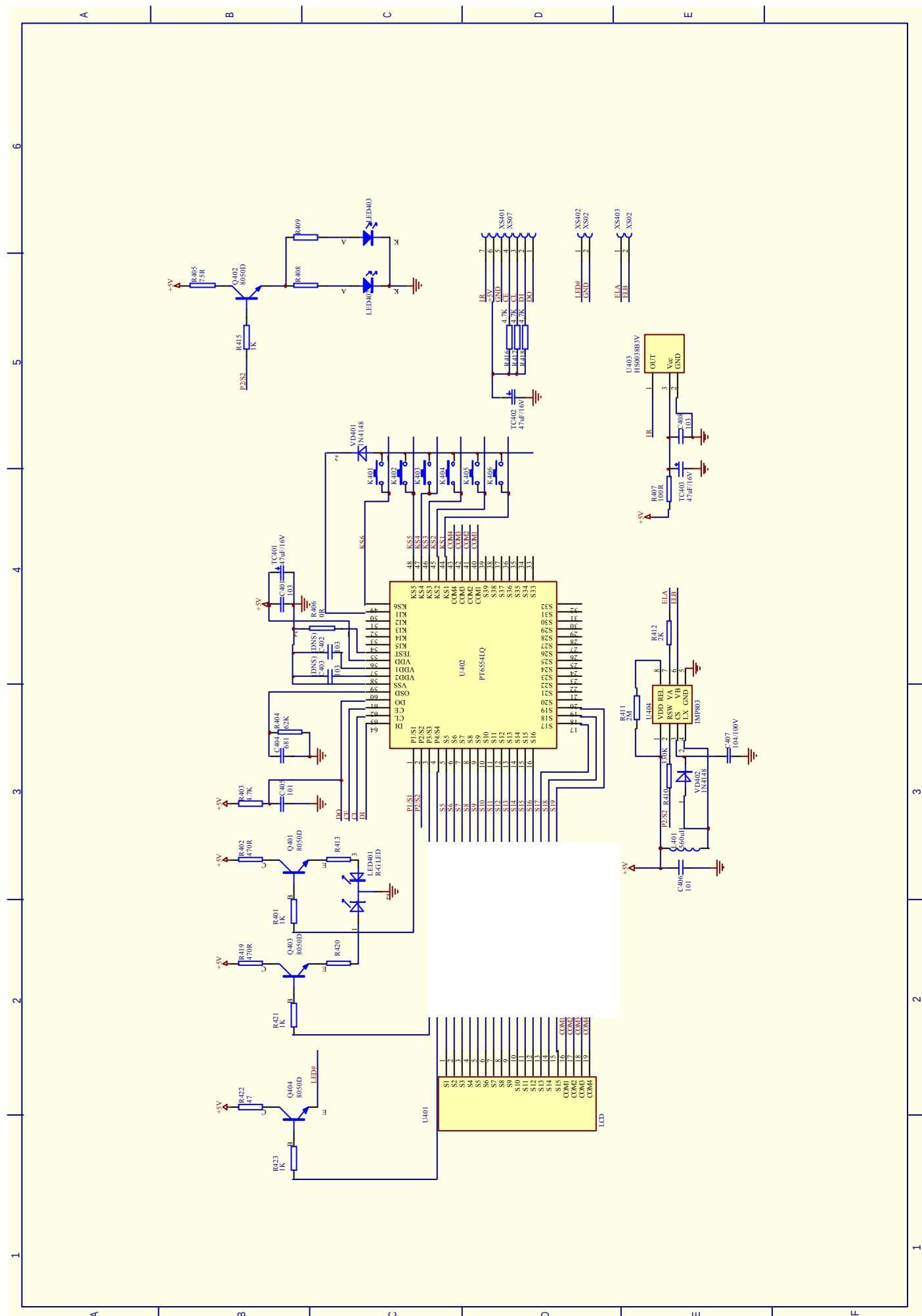
PIN	PIN NAME	DESCRIPTION
CLK	Clock	The system clock input. All other inputs are registered to the SDRAM on the rising edge of CLK
CKE	Clock Enable	Controls internal clock signal and when deactivated, the SDRAM will be one of the states among power down, suspend or self refresh
$\overline{CS}$	Chip Select	Enables or disables all inputs except CLK, CKE and DQM
BA0,BA1	Bank Address	Selects bank to be activated during $\overline{RAS}$ activity Selects bank to be read/written during CAS activity
A0 ~ A11	Address	Row Address : RA0 ~ RA11, Column Address : CA0 ~ CA7 Auto-precharge flag : A10
$\overline{RAS}$, $\overline{CAS}$, $\overline{WE}$	Row Address Strobe, Column Address Strobe, Write Enable	$\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation Refer function truth table for details
LDQM, UDQM	Data Input/Output Mask	Controls output buffers in read mode and masks input data in write mode
DQ0 ~ DQ15	Data Input/Output	Multiplexed data input / output pin
VDD/VSS	Power Supply/Ground	Power supply for internal circuits and input buffers
VDDQ/VSSQ	Data Output Power/Ground	Power supply for output buffers
NC	No Connection	No connection

1Mbit x 4banks x 16 I/O Synchronous DRAM

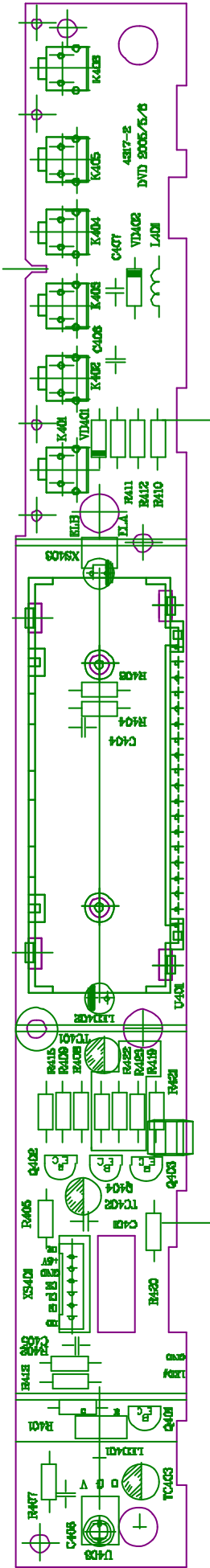


9. SCHEMATIC & PCB WIRING DIAGRAM SCHEMATIC & PCB WIRING DIAGRAM

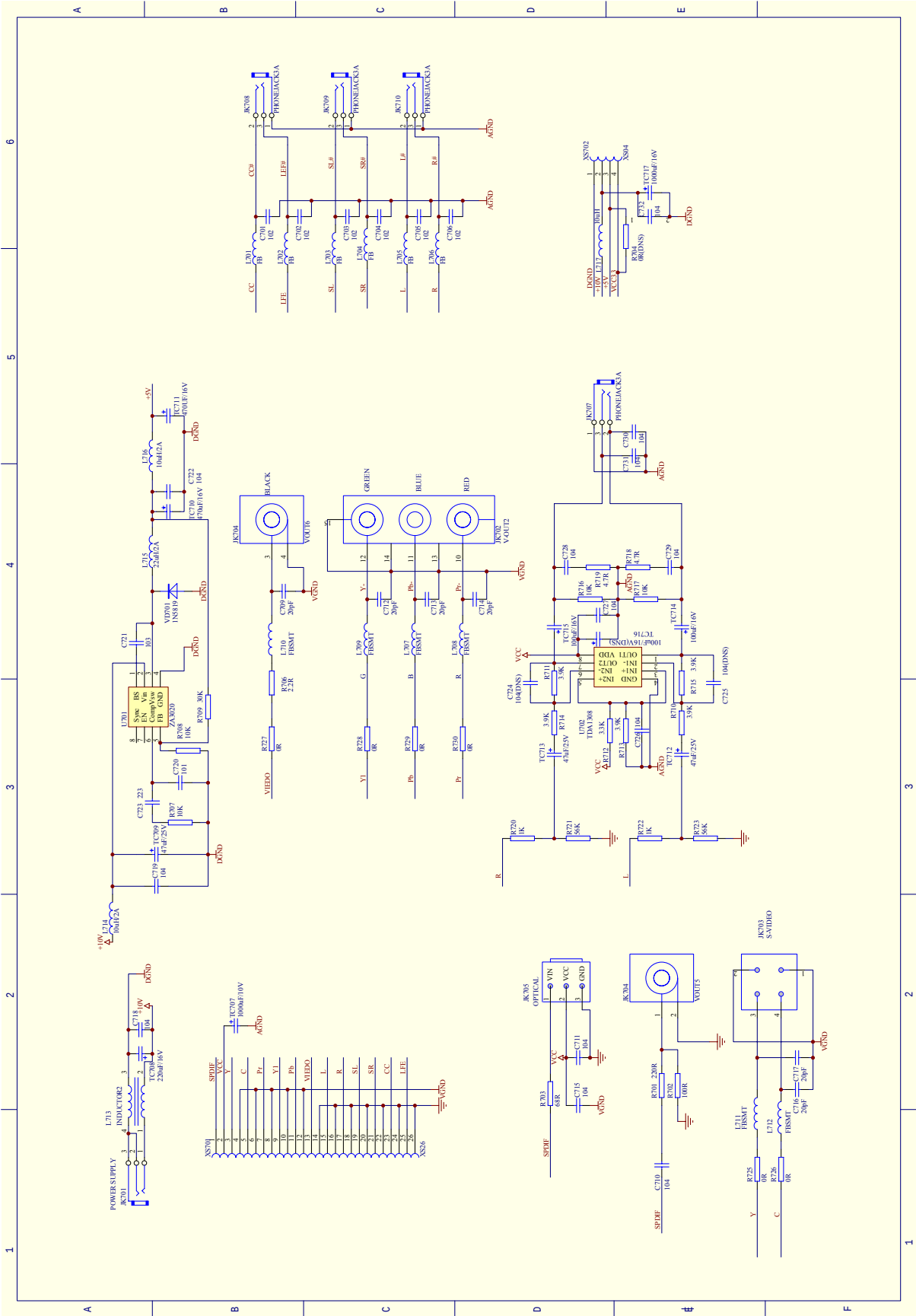
FRONT SCHEMATIC DIAGRAM



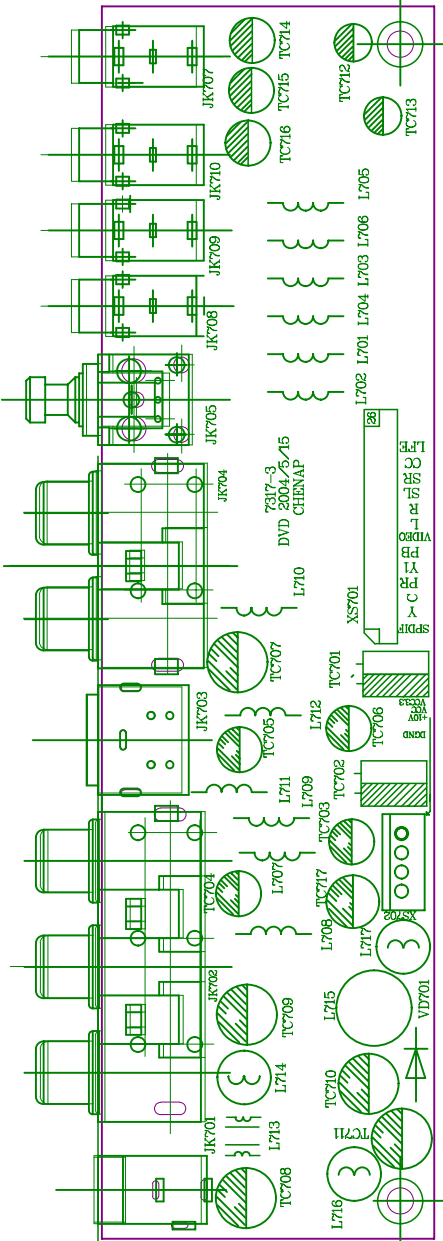
FRONT SCHEMATIC DIAGRAM



OUTPUT BOARD SCHEMATIC DIAGRAM

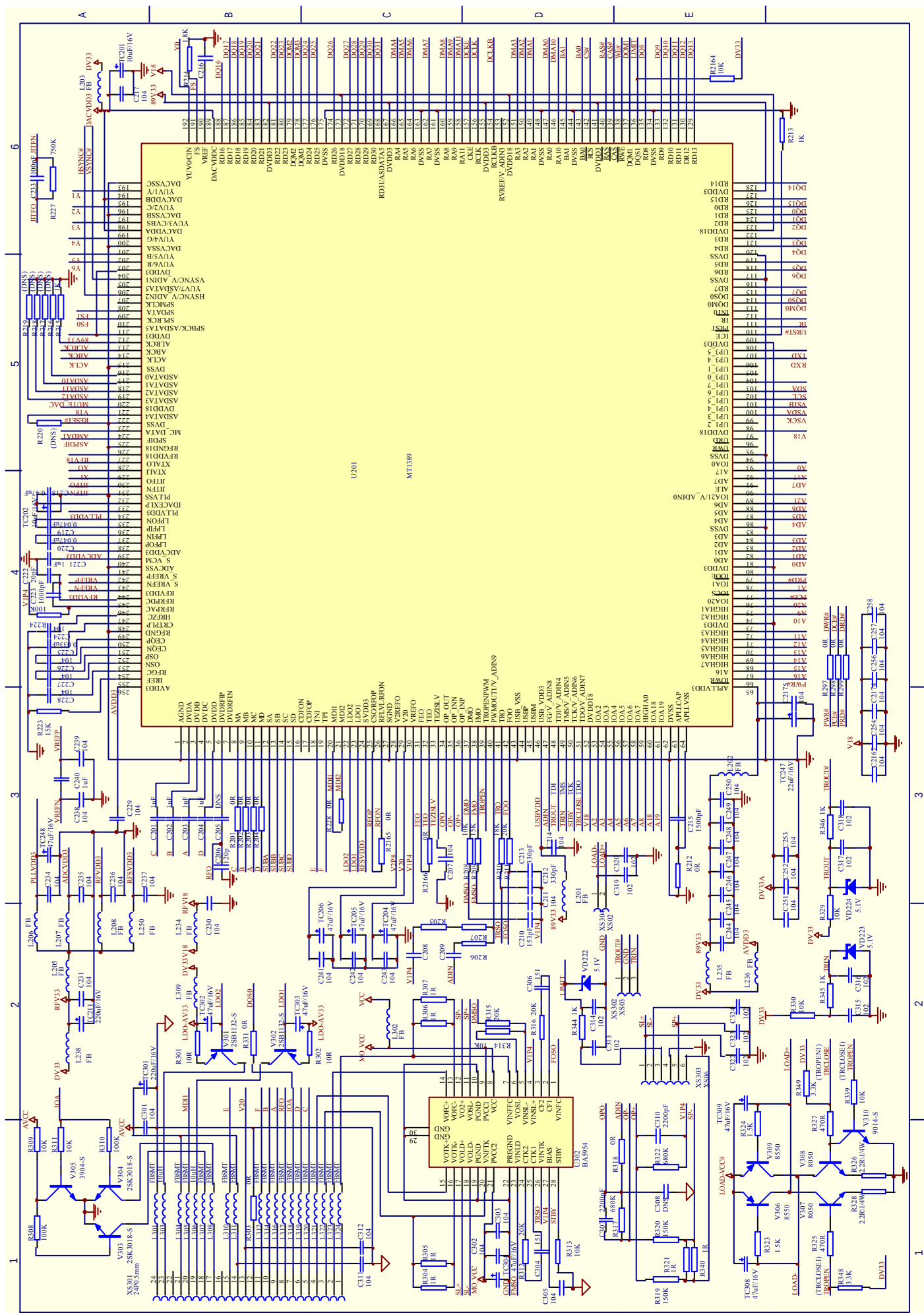


OUTPUT BOARD SCHEMATIC DIAGRAM

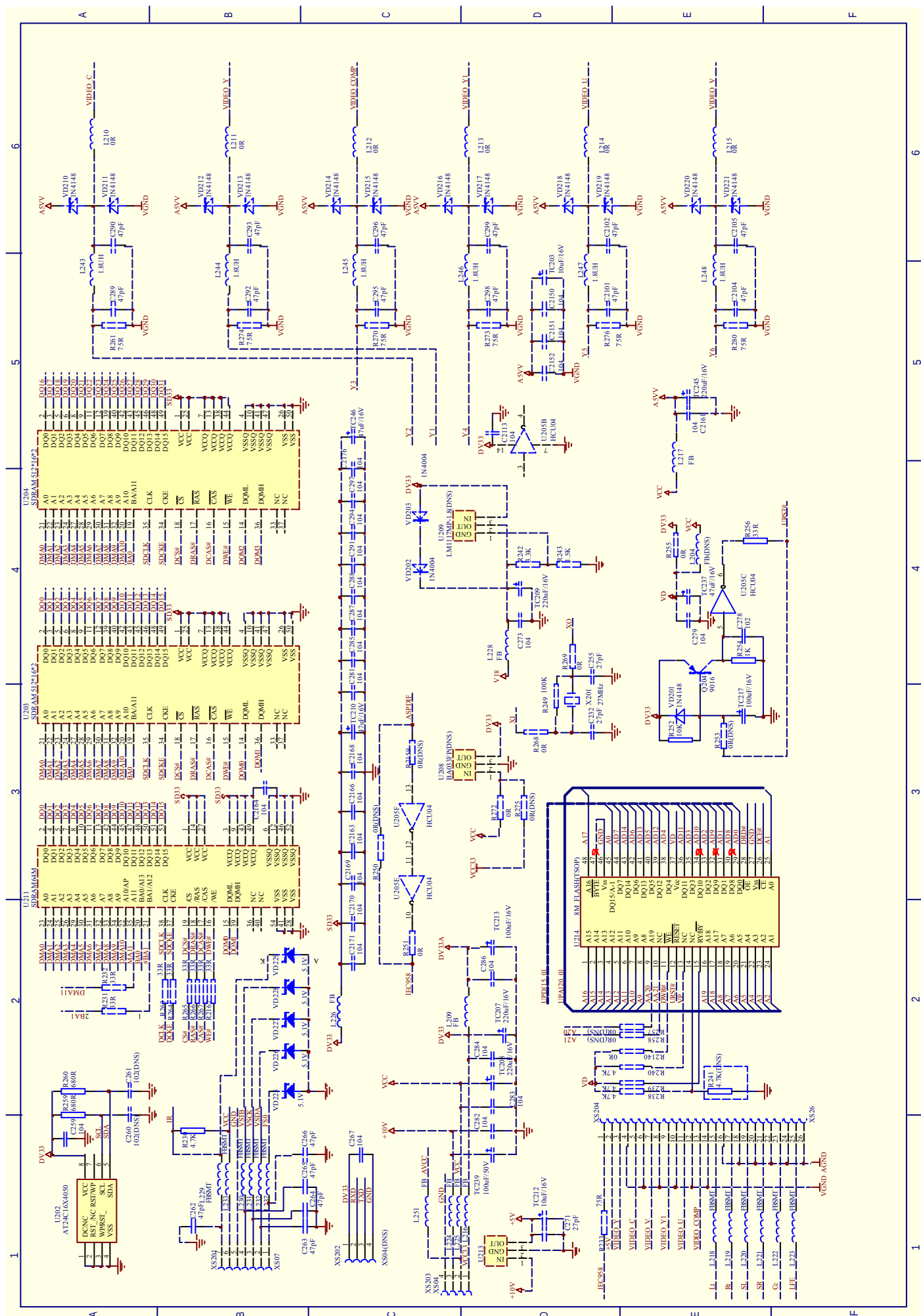


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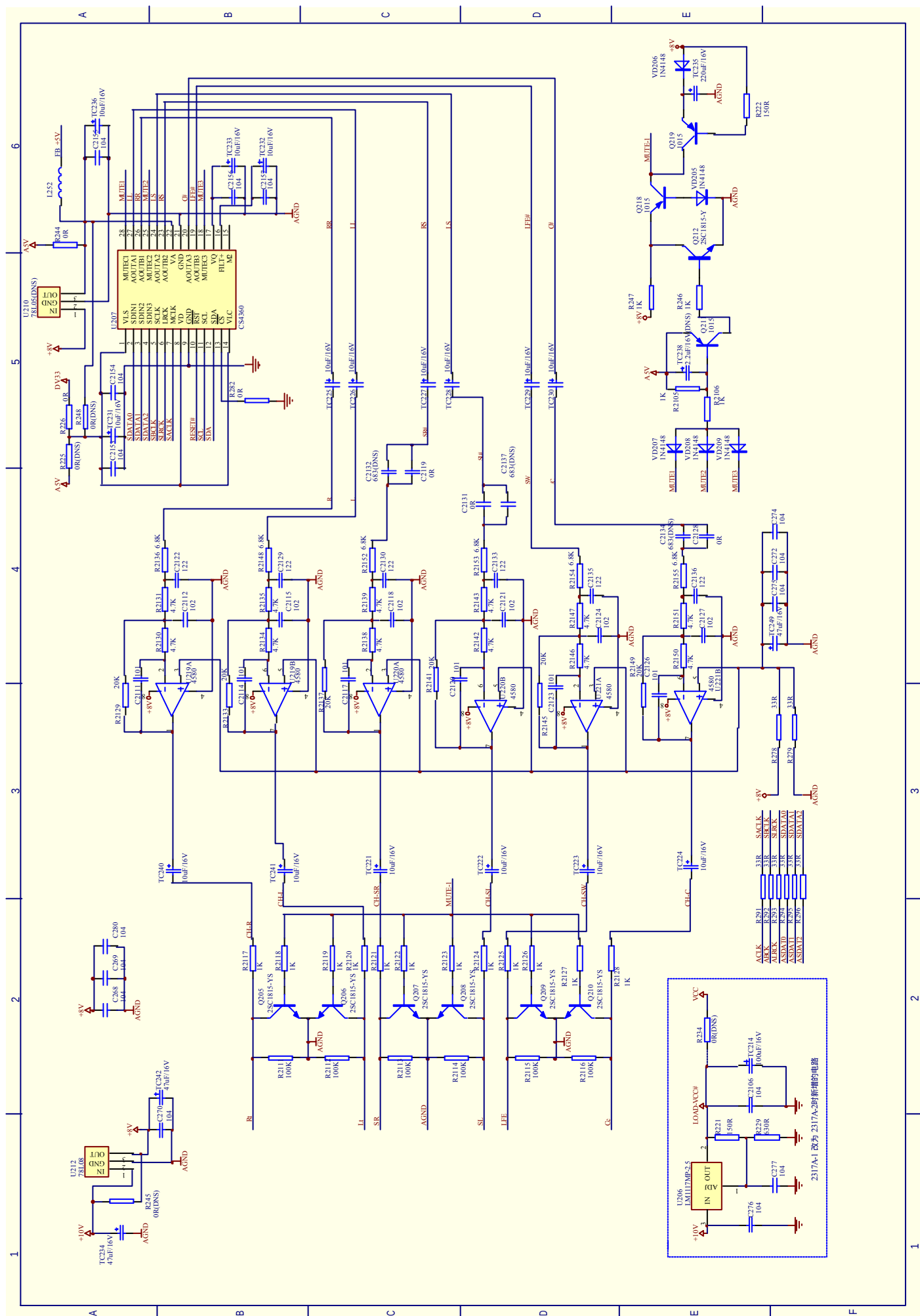
MIAN SCHEMATIC DIAGRAM

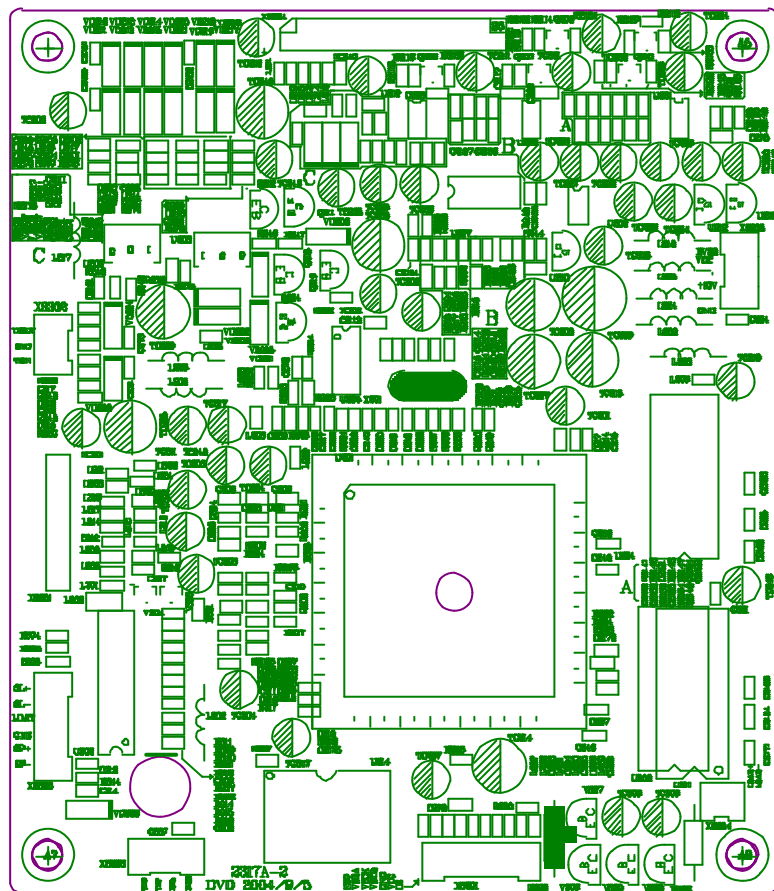


MIAN SCHEMATIC DIAGRAM

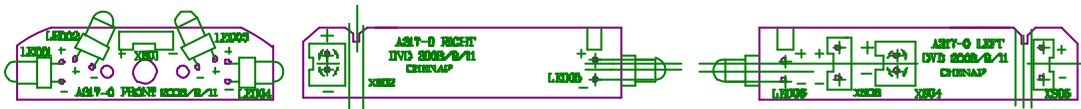


MIAN SCHEMATIC DIAGRAM

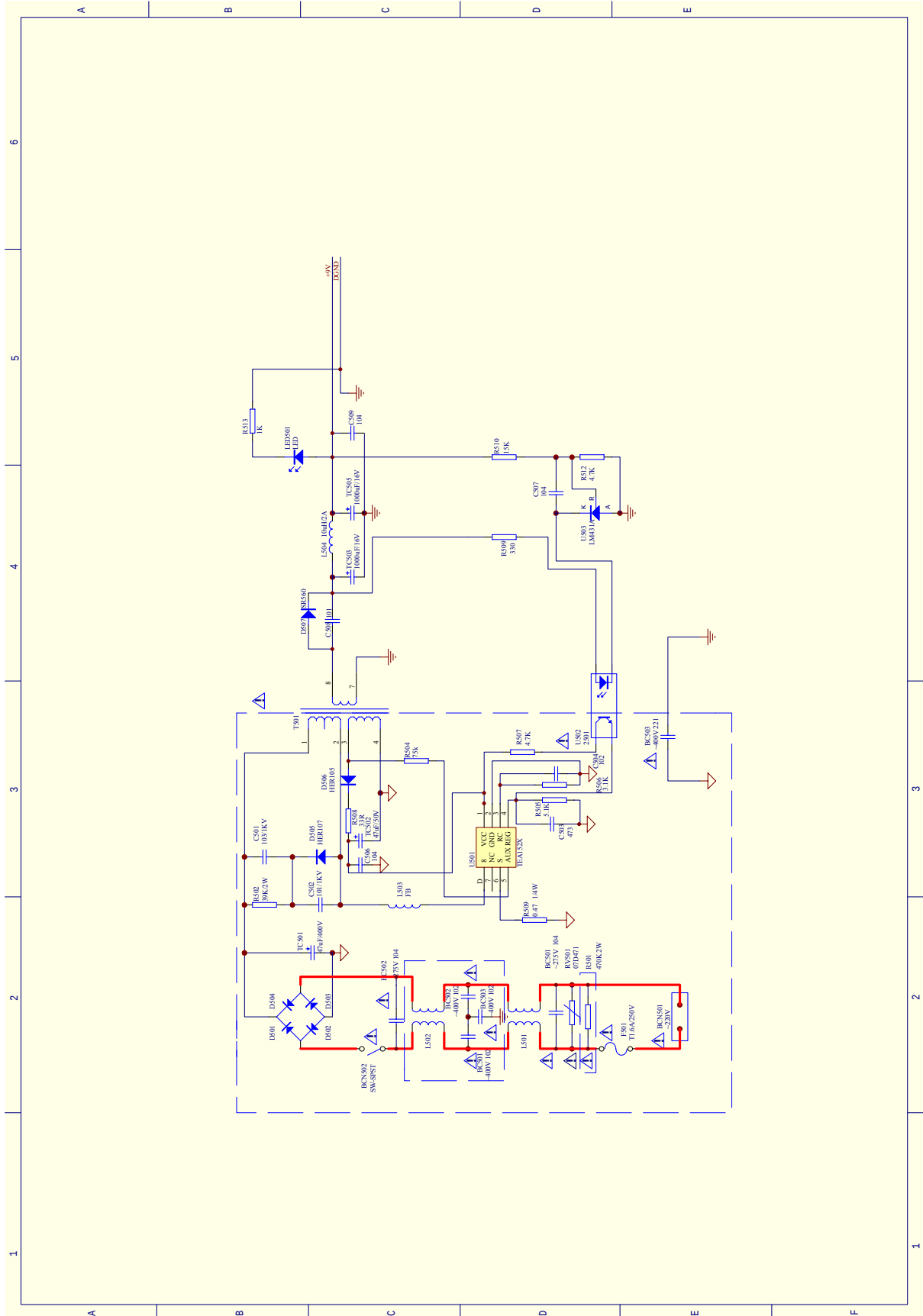




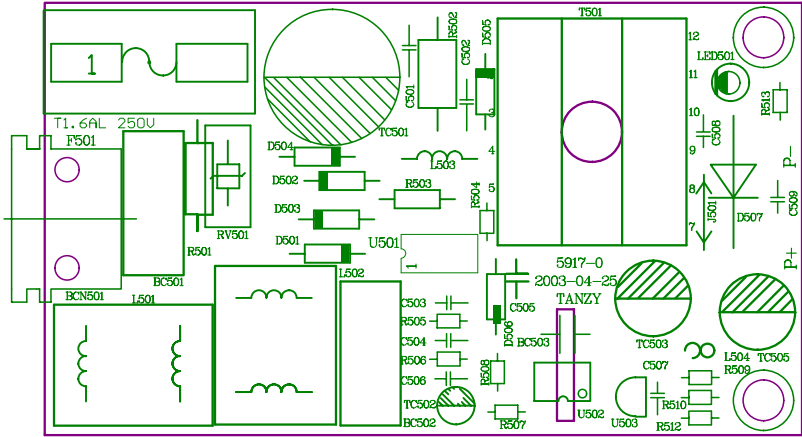
SUBSIDIARY BOARD



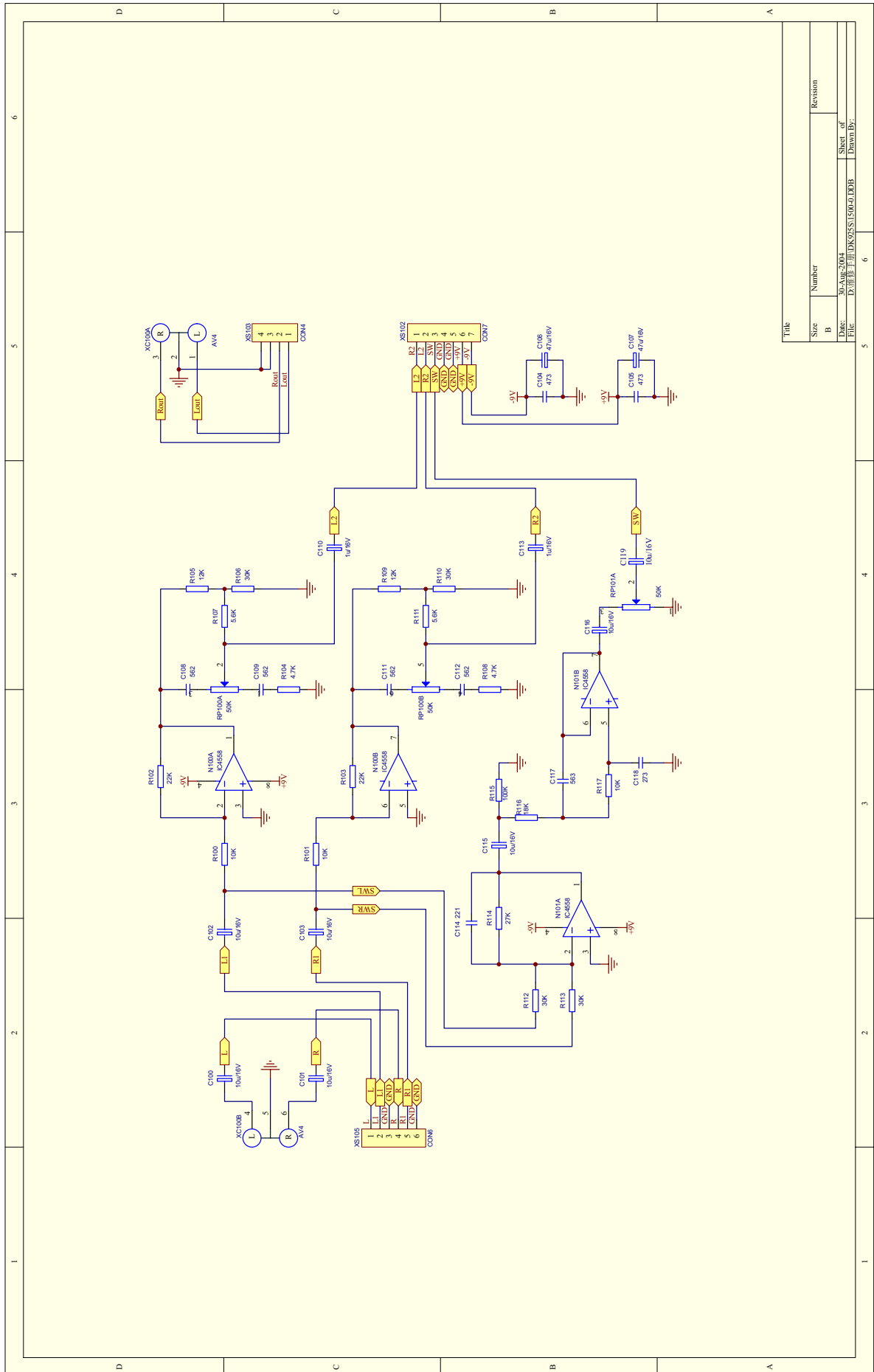
POWER BOARD SCHEMATIC DIAGRAM



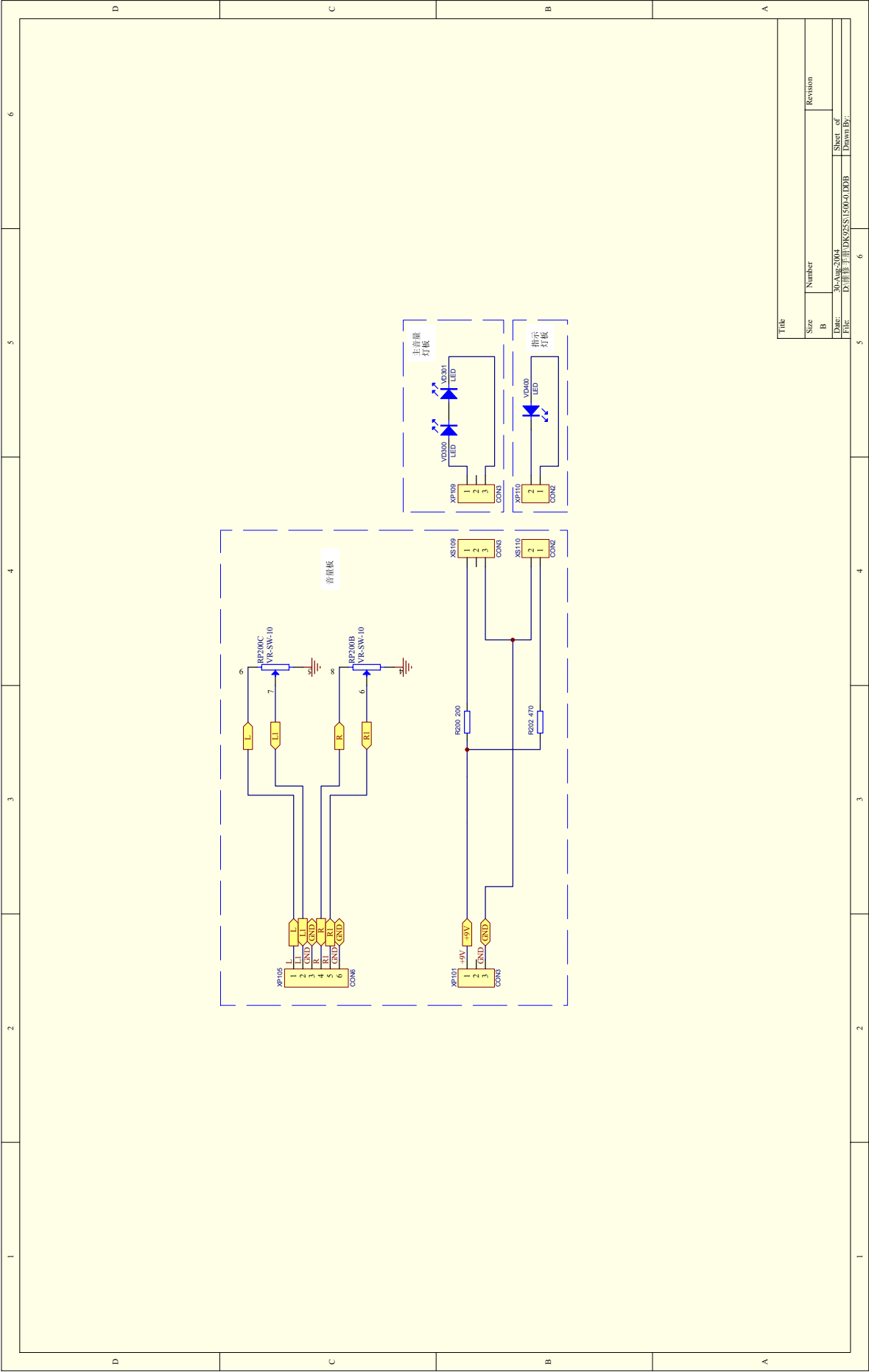
POWER BOARD SCHEMATIC DIAGRAM



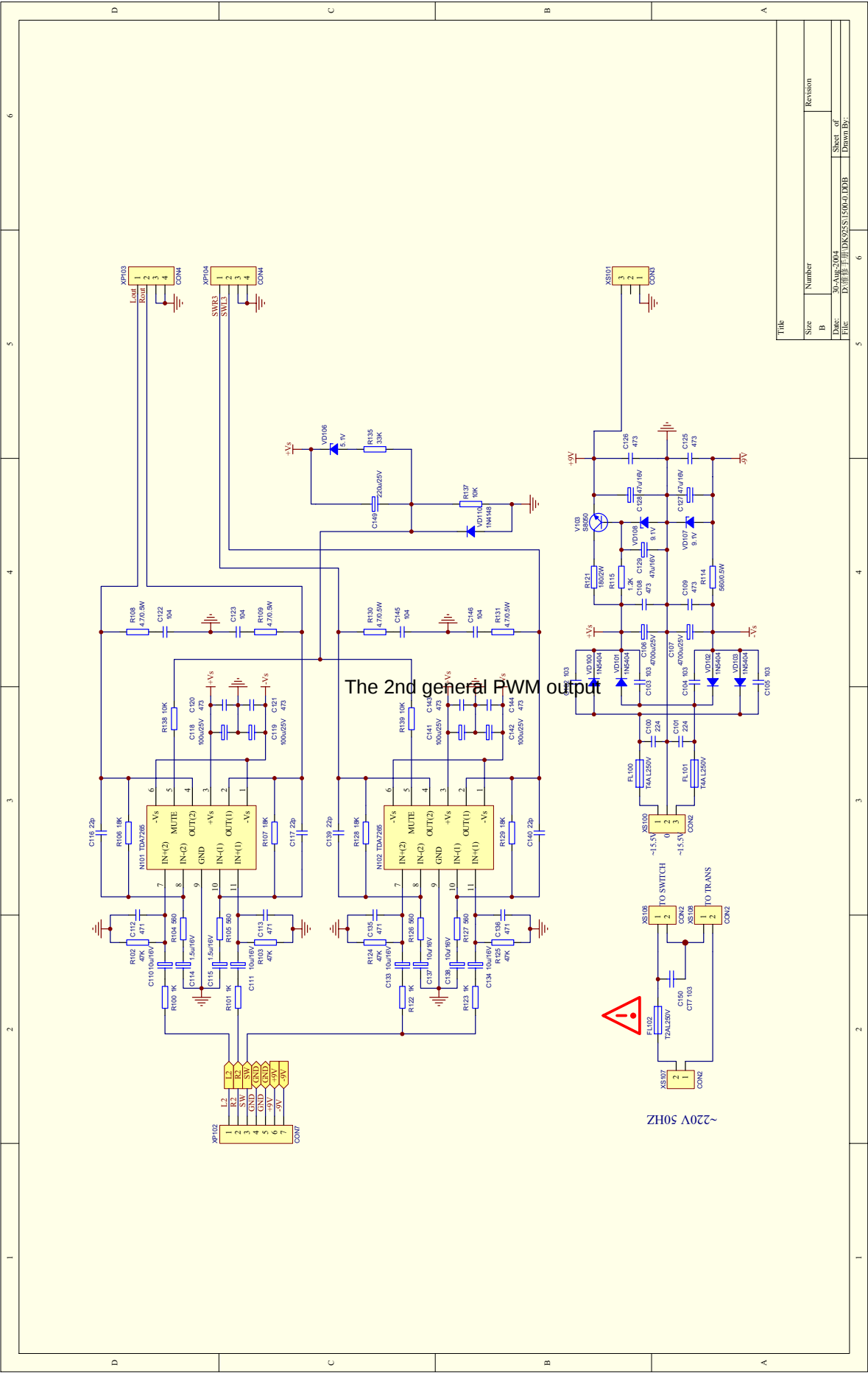
I/O Board



Volume control board



Amplifier board



10. SPARE PARTS LIST

DK1000S MATERIAL LIST

1. MAIN PANEL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1200520	LCD SCREEN	XKS3787-SP BLUE	PCS	1	U401
0620105	LED GROUND LIGHT SOURCE	QB03002-09C	PCS	1	LED402
3026977	LCD BRACKET	DL317 ORIGINAL COLOR	PCS	1	
4000413	TAPPING SCREW	BB 2×5 H NICKEL	PCS	2	2PCS FOR LED BRACKET AND MAIN PANEL
5446163	PCB SEMI-FINISHED PRODUCT	4317-2 DK1000S (WITHOUT LED)	PCS	1	

1. MAIN PANEL WITHOUT LED

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0000181	CARBON FILM RESISTOR	1/4W220Ω±5%	PCS	2	R402,R419
0000167	CARBON FILM RESISTOR	1/4W33Ω±5%	PCS	1	R405
0000195	CARBON FILM RESISTOR	1/4W1K±5%	PCS	4	R401,R415,R421,R423
0000175	CARBON FILM RESISTOR	1/4W100Ω±5%	PCS	1	R407
0000163	CARBON FILM RESISTOR	1/4W10Ω±5%	PCS	3	R413 ,R420,R422
0000233	CARBON FILM RESISTOR	1/4W62K±5%	PCS	1	R404
0000268	CARBON FILM RESISTOR	1/4W2.2Ω±5% SHAPED 10	PCS	2	R408,R409
0570006	DIODE	1N4148	PCS	1	VD401
0260008	CD	CD11C 10V47U±20%4×7 1.5	PCS	3	TC401~TC403
0620054	DUAL-COLOR RADIATION DIODE	3RB9HW-A COMMON SHADE RED AND BLUE	PCS	1	LED401
1340064	LIGHT TOUCH RESTORE SWITCH	KFC-A06-2WB L3.8	PCS	6	K401~K406
0881683	IC	PT6554LQ QFP	PCS	1	U402
1940170	SOCKET	2P 2.0mm RIGHT-ANGLED	PCS	1	XS402
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	4	R416,R417,R418,R403
0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	2	C402,C403
0200139	PORCELAIN CAPACITOR	50V 104 +80%-20% 5mm	PCS	2	C401,C408
0200118	PORCELAIN CAPACITOR	50V 681 ±10% 5mm	PCS	1	C404
0780050	TRIODE	S8050D	PCS	4	Q401,Q402,Q403,Q404
2121268	SOFT FLAT CABLE	7P60 2.0 2PLUG WITH L NEEDLE REVERSE	PCS	1	
2360016	RECEIVING HEAD	HS0038B3V	PCS	1	U403
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	1	R406
1631837	PCB	4317-2	PCS	1	

1. AV BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603		1	R702
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	6	R725~R730
0090238	SMD RESISTOR	1/16W 68Ω ±5% 0603	PCS	1	R703
0090002	SMD RESISTOR	1/16W 2.2Ω ±5% 0603	PCS	1	R706
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	2	R718,R719
0090008	SMD RESISTOR	1/16W 220Ω ±5% 0603	PCS	1	R701
0090018	SMD RESISTOR	1/16W 3.3K ±5% 0603	PCS	1	R712
0090224	SMD RESISTOR	1/16W 3.9K ±5% 0603	PCS	5	R710,R711,R713,R714,R715
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	3	R707,R716,R717
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	2	R720,R722
0090030	SMD RESISTOR	1/16W 56K ±5% 0603	PCS	2	R721,R723
0090481	PRECISION SMD RESISTOR	1/16W 30K±1% 0603	PCS	1	R709
0090304	PRECISION SMD RESISTOR	1/16W 10K±1% 0603	PCS	1	R708
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	1	C720
0310066	SMD CAPACITOR	50V 102 ±10% 0603	PCS	6	C701~C706
0310083	SMD CAPACITOR	50V 20P ±5% 0603	PCS	6	C709,C712,C713,C714,C716,C717
0310072	SMD CAPACITOR	50V 103 ±10% 0603	PCS	1	C721
0310202	SMD CAPACITOR	50V 223 ±10% 0603	PCS	1	C723
0310207	SMD CAPACITOR	50V104 ±20% 0603	PCS	12	C710,C711,C715,C718,C719,C722,C726,C727,C728,C729,C730,C731
0260039	CD	CD11 25V47U±20%5×11 2	PCS	3	TC709,TC712,TC713
0260201	CD	CD11C 16V100U±20%6×7 2.5	PCS	3	TC714,TC715,TC716
0260028	CD	CD11 16V220U±20%6×12 2.5	PCS	1	TC708
0260029	CD	CD11 16V470U±20%8×123.5	PCS	2	TC711,TC710
0260352	CD	GS 10V1000U±20%8×14 3.5	PCS	1	TC707
0260237	CD	CD11 10V1000U±20%8×14 3.5	PCS	1	TC707
0260252	CD	GS 10V1000U±20%8×16 3.5	PCS	1	TC707
0260015	CD	CD11 10V1000U±20%8×16 3.5	PCS	1	TC707
0881304	IC	ZA3020 SO8	PCS	1	U701

0881537	IC	TDA1308 SOP	PCS	1	U702
0680013	SCHOTTKY DIODE	1N5819	PCS	1	VD701
0390057	MAGNETIC BEADS INDUCTOR	RH354708	PCS	12	L701~L706,L707~L712
0410011	CHOKE COIL	VERTICAL 10UH 2A 5mm	PCS	1	L717
2100010	CONNECTION CORDS	Φ0.6 SHAPED 5mm	PCS	2	L714,L716
0410133	VERTICAL SCREEN-SHIELDED FILTERING INDUCTOR	22UH 2A 5mm	PCS	1	L715
0410118	CHOKE COIL	JLB0904	PCS	1	L713
1090045	ELECTRO-OPTIC TRANSFORMER	TX179ATW	PCS	1	JK705
1090024	ELECTRO-OPTIC TRANSFORMER	TX179AT	PCS	1	JK705
1870030	POWER SOCKET	DC-005	PCS	1	JK701
1910127	TERMINAL SOCKET	S-VIDEO GOLD-PLATED	PCS	1	JK703
1910167	TERMINAL SOCKET	AV2-8.4-6G-3 GOLD-PLATED	PCS	1	JK704
1910143	TERMINAL SOCKET	AV3-8.4-6G-2 GOLD-PLATED	PCS	1	JK702
1980046	HEADPHONE SOCKET	ST-301-030-100	PCS	4	JK707,JK708,JK709,JK710
1940003	SOCKET	4P 2.5mm	PCS	1	XS702
2110393	LEAD	26# 25mm BLACK WITH Φ3.2 WELDING	PCS	1	OUTPUT BOARD TO DECODE BOARD
1940120	CABLE SOCKET	13P 1.0mm DUAL LINE TOUCH STRAIGHT DUAL LINE PLUG	PCS	1	XS701
1631626	PCB	7317-3	PCS	1	

1. SUBSIDIARY BOARD 1

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	1	R4
2121214	FLAT CABLE	2P230 2.0 1PLUG	PCS	1	XS03
2121212	FLAT CABLE	2P280 2.0 1PLUG	PCS	1	XS05
1940027	SOCKET	2P 2.0mm	PCS	1	XS04
1562692	PCB	A317-0 LEFT	PCS	1	
0620040	RADIATION DIODE	3B 4SC WHITE WITH BLUE	PCS	1	LED06

1. SUBSIDIARY BOARD 2

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	4	R1,R2,R5,R6
1562691	PCB	A317-0 FRONT	PCS	1	
0620040	RADIATION DIODE	3B 4SC WHITE WITH BLUE	PCS	4	LED01~LED04
2121213	FLAT CABLE	2P260 2.0 1PLUG	PCS	1	XS01

1. SUBSIDIARY BOARD 3

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	1	R3
1940027	SOCKET	2P 2.0mm	PCS	1	XS02
1562690	PCB	A317-0 RIGHT	PCS	1	
0620040	RADIATION DIODE	3B 4SC WHITE WITH BLUE	PCS	1	LED05

1. SUBWOOFER POWER AMPLIFIER BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0000648	CARBON FILM RESISTOR	1/2W 4.7Ω±5% SHAPED 12.5	PCS	4	R108, R109, R130, R131
0010242	METAL OXIDE FILM RESISTOR	1/2W560Ω±5% SHAPED 12.5	PCS	1	R114
0010243	METAL OXIDE FILM RESISTOR	2W180Ω±5%SHAPED R 20×8	PCS	1	R121
0200219	CERAMIC RESISTOR	CT7 400V 103 ±20% 10mm	PCS	1	C150
0210030	TERYLENE CAPACITOR	100V 104 ±10% 7mm	PCS	4	C122, C123, C145, C146
0210031	TERYLENE CAPACITOR	100V 224 ±10% 8mm	PCS	2	C100, C101
0260041	CD	CD11 25V220U±20%8×12 3.5	PCS	1	C149
0260134	CD	CD11 25V4700U±20%16×35 7.5	PCS	2	C106, C107
570020	DIODE	1N5404	PCS	4	VD100, VD101, VD102, VD103
0881102	IC	TDA7265 Multiwatt11	PCS	2	N101, N102
1940002	SOCKET	3P 2.5mm	PCS	1	XS101
1940040	SOCKET	3P 3.96mm	PCS	1	XS100
1940074	SOCKET	2P 7.92mm	PCS	3	XS106, XS107, XS108
2110380	LEAD	22# 75mm BLACK WITH WELDING PIECE HOLE φ4.2	PCS	1	WELD TO REAR SIDE OF XP111
2121318	FLAT CABLE	4P290 2.5 1PLUG WITH NEEDLE	PCS	1	XP104
2121319	FLAT CABLE	4P215 2.5 2PLUG	PCS	1	XP103
2150150	FLAT CABLE	7P220 2.5 2PLUG 4P SCREEN- SHIELDED WITH NEEDLE THE SAME DIRECTION	PCS	1	XP102

2300003	FUSE	T2AL 250V	PCS	1	FL102
2300006	FUSE	T4AL 250V	PCS	2	FL100, FL101
3020402	FUSE HOLDER	BLX-2	PCS	1	FL102
3870057	FUSE HOLDER		PCS	4	FL100, FL101
5444514	PCB SEMI-FINISHED PRODUCTS	4500-0 SW500AI	PCS	1	

1. SUBWOOFER POWER AMPLIFIER BOARD AI

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1562901	PCB	4500-0	PCS	1	
00000189	CARBON FILM RESISTOR	1/6W560Ω±5%	PCS	4	R104, R105, R126, R127
00000229	CARBON FILM RESISTOR	1/6W1K±5%	PCS	4	R100, R101, R122, R123
00000409	CARBON FILM RESISTOR	1/6W10K±5%	PCS	3	R137,R138,R139
00000449	CARBON FILM RESISTOR	1/6W18K±5%	PCS	4	R106, R107, R128, R129
00000509	CARBON FILM RESISTOR	1/6W33K±5%	PCS	1	R135
00000529	CARBON FILM RESISTOR	1/6W47K±5%	PCS	4	R102, R103, R124, R125
00001969	CARBON FILM RESISTOR	1/4W1.2K±5%	PCS	1	R115
02003059	PORCELAIN CAPACITOR	50V 22P±10% SHAPED 5mm	PCS	4	C116, C117, C139, C140
02003129	PORCELAIN CAPACITOR	50V 471±10% SHAPED 5mm	PCS	4	C112, C113, C135, C136
02101599	TERYLENE CAPACITOR	100V 103 ±10% SHAPED 5mm	PCS	4	C102, C103, C104, C105
02101489	TERYLENE CAPACITOR	100V 473 ±10% SHAPED 5mm	PCS	8	C108, C109, C120, C121, C125,C126, C143, C144
02601299	CD	CD110 16V1.5U±20%5×11 C5	PCS	2	C114, C115
02604379	CD	CD11 16V10U±20%5×11C5	PCS	6	C110, C111, C133, C134, C137,C138
02600029	CD	CD11 16V47U±20%5×11 C5	PCS	3	C127,C128,C129
02601829	CD	CD11 25V100U±20%6×12 C5	PCS	4	C118, C119, C141,C142
05700069	DIODE	1N4148	PCS	1	VD110
05800069	VOLTAGE REGULATOR DIODE	5.1V 1/2W	PCS	1	VD106
05800099	VOLTAGE REGULATOR DIODE	9.1V 1/2W	PCS	2	VD107, VD108
07801389	TRIODE	8050D	PCS	1	V103
07800509	TRIODE	S8050D	PCS	1	V103
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	8	W2, W3, W6, W16,W20, W21, W28, W29
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	10	W4, W5, W7, W8, W9, W15, W17, W18, W24, W27
2100006	CONNECTION CORDS	Φ0.6 SHAPED 12.5mm	PCS	2	W10, W23
2100007	CONNECTION CORDS	Φ0.6 SHAPED 15mm	PCS	6	W12, W13, W14, W22, W25, W26
2100016	CONNECTION CORDS	Φ0.6 SHAPED 18mm	PCS	1	W11
2100017	CONNECTION CORDS	Φ0.6 SHAPED 20mm	PCS	2	W1, W19

1. SUBWOOFER INPUT/OUTPUT BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0210078	TERYLENE CAPACITOR	100V 562 ±10% 3.5mm	PCS	4	C108, C109, C111, C112
0210060	TERYLENE CAPACITOR	100V 563 ±10% 6mm	PCS	1	C117
0881227	IC	RC4558P DIP	PCS	2	N100, N101
0880445	IC	4558C DIP	PCS	2	N100, N101
0880124	IC	NJM4558D DIP	PCS	2	N100, N101
0881393	IC	IL4558N DIP	PCS	2	N100, N101
0160035	ROTATED POTENTIOMETER	D161GOAX-V1B503-016	PCS	1	RP100
0160036	ROTATED POTENTIOMETER	D161GOAX-V1B503-017	PCS	1	RP101
1910135	TERMINAL SOCKET	AV4-8.4-10 (RED, WHITE)	PCS	1	XC100
1940003	SOCKET	4P 2.5mm	PCS	1	XS103
1940006	SOCKET	6P 2.5mm	PCS	1	XS105
1940007	SOCKET	7P 2.5mm	PCS	1	XS102
3540094	SCREEN-SHIELDED PIECE	100×38 SW500	PCS	1	WELD ON WELDING SURFACE OF PCB
5232437	PVC PIECE	98×38×0.5 SINGLE-SIDED WITH GLUE IN REAR SIDE	PCS	1	STICK INSIDE SCREEN PIECE
5444513	PCB SEMI-FINISHED PRODUCT	1500-0 SW500AI	PCS	1	

1. SUBWOOFER INPUT/OUTPUT BOARD AI

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1562902	PCB	1500-0	PCS	1	
00000349	CARBON FILM RESISTOR	1/6W4.7K±5%	PCS	2	R104, R108
00000369	CARBON FILM RESISTOR	1/6W5.6K±5%	PCS	2	R107, R111
00000409	CARBON FILM RESISTOR	1/6W10K±5%	PCS	3	R100, R101,R117
00000419	CARBON FILM RESISTOR	1/6W12K±5%	PCS	2	R105, R109

00000449	CARBON FILM RESISTOR	1/6W18K±5%	PCS	1	R116
00000469	CARBON FILM RESISTOR	1/6W22K±5%	PCS	2	R102, R103
00000489	CARBON FILM RESISTOR	1/6W27K±5%	PCS	1	R114
00000499	CARBON FILM RESISTOR	1/6W30K±5%	PCS	4	R106, R110, R112, R113
00000599	CARBON FILM RESISTOR	1/6W100K±5%	PCS	1	R115
02003089	PORCELAIN CAPACITOR	50V 221±10% SHAPED 5mm	PCS	1	C114
02101699	TERYLENE CAPACITOR	100V 273±10% SHAPED 5mm	PCS	1	C118
02101489	TERYLENE CAPACITOR	100V 473 ±10% SHAPED 5mm	PCS	2	C104, C105
02600059	CD	CD11 50V1U±20%5×11 C5	PCS	2	C110, C113
02604379	CD	CD11 16V10U±20%5×11C5	PCS	7	C100, C101, C102, C103, C115,C116, C119
02600029	CD	CD11 16V47U±20%5×11 C5	PCS	2	C106, C107
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	15	W1, W2, W3, W4, W5, W6, W8, W9,W10, W13, W14, W15, W16, W17,W18
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	2	W7, W12
2100006	CONNECTION CORDS	Φ0.6 SHAPED 12.5mm	PCS	1	W11

1. SUBWOOFER VOLUME CONTROL BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0000124	CARBON FILM RESISTOR	1/6W470Ω±5% SHAPED 7.5	PCS	1	R202
0000610	CARBON FILM RESISTOR	1/6W200Ω±5% SHAPED 7.5	PCS	1	R200
0160178	ROTATED POTENTIOMETER	R1411GOA-H1B503FJ00-01	PCS	1	RP200
1563221	PCB	2500-1	PCS	1	
1940002	SOCKET	3P 2.5mm	PCS	1	XP101
1940006	SOCKET	6P 2.5mm	PCS	1	XP105
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	2	W201,W202
2121486	FLAT CABLE	3P85 2.5 2PLUG WITH NEEDLE REVE	PCS	1	VOLUME CONTROL BOARD XS109/STANDBY INDICATION BOARD XP109
2121487	FLAT CABLE	2P95 2.5 2PLUG WITH NEEDLE REVE	PCS	1	VOLUME CONTROL BOARD XS110/POWER INDICATION BOARD XP110
5232411	PVC PIECE	33×29×0.5 SINGLE-SIDED WITH GLUE IN REAR SIDE	PCS	1	SCREEN-SHIELDED MANTLE AND PVC PIECE TO PREVENT SHOR CIRCUIT
3540092	SCREEN-SHIELDED MANTLE	SW500	PCS	1	WELD ON WELDING SURFACE OF PCB

1. SUBWOOFER MAIN VOLUME INDICATION BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1563256	PCB	A500-1	PCS	1	
0620089	RADIATION DIODE	3B3SC COLORLESS WITH BLUE BRIGHTNESS 2300MCD	PCS	1	VD400

1. DECODE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	32	C2119,C2128,C2131,L210~L215,R201~R204,R212,R226,R228,R244,R251,R255,R257,R258,R268,R269,R272,R282,R297,R298,R299,R303,R318,R331,R2159
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	7	R233,R261,R270,R273,R274,R276,R280
0000707	SMD RESISTOR	1/4W5.6Ω±5% SHAPED 10	PCS	2	R326,R328
0090272	SMD RESISTOR	1/16W1Ω±5% 0603	PCS	6	R304~R307,R321,R340
0090003	SMD RESISTOR	1/16W 10Ω ±5% 0603	PCS	2	R301,R302
0090005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	16	R231,R232,R256,R291~R296,L202, R263~R267,R2162
0090232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	1	R222
90009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	3	R344~R346
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	4	R323,R324,R325,R327
0090013	SMD RESISTOR	1/16W 680Ω ±5% 0603	PCS	2	R259,R260
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	21	R213,R215,R246,R247,R254,R278,R2105,R2106,R2117~R2128,R279
0090016	SMD RESISTOR	1/16W 1.5K ±5% 0603	PCS	1	R243
0090249	SMD RESISTOR	1/16W 510Ω ±5% 0603	PCS	2	R214,R229
0090221	SMD RESISTOR	1/16W 120Ω ±5% 0603	PCS	1	R221
0090018	SMD RESISTOR	1/16W 3.3K ±5% 0603	PCS	1	R242

0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	17	R230,R238~R240,R2130,R2131,R2134,R2135,R2138~R2140,R2142,R2143,R2146,R2147,R2150,R2151
0090021	SMD RESISTOR	1/16W 6.8K ±5% 0603	PCS	6	R2136,R2148,R2152~R2155
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	10	R208,R252,R309,R311,R313,R314,R329,R330,R339,R2164
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	2	R209,R223
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	4	R211,R312,R315,R316
0090026	SMD RESISTOR	1/16W 22K ±5% 0603	PCS	6	R2129,R2133,R2137,R2141,R2145,R2149
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R210
0090197	SMD RESISTOR	1/16W 150K ±5% 0603	PCS	2	R319,R320
0090231	PRECISION SMD RESISTOR	1/16W 680K ±1% 0603	PCS	2	R317,R322
90319	PRECISION SMD RESISTOR	1/16W 750K ±1% 0603	PCS	1	R227
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	10	R224,R308,R310,R2111~R2116,R249
0260196	CD	CD11C 16V10U±20%4×7 1.5	PCS	20	TC201~TC203,TC217,TC221~TC233,TC236,TC240,TC241
0260202	CD	CD11C 16V220U±20%8×9 3.5	PCS	1	TC235
0260222	CD	CD11C 10V220U±20%6×7 2.5	PCS	6	TC207~TC209,TC211,TC245,TC301
0260200	CD	CD11C 16V47U±20%5×7 2	PCS	15	TC204~TC206,TC210,TC234,TC237,TC302~TC304,TC308,TC309,TC246~TC249
0260201	CD	CD11C 16V100U±20%6×7 2.5	PCS	3	TC212,TC213,TC214
0260103	CD	CD11C 25V100U±20%8×9 3.5	PCS	1	TC239
0310085	SMD CAPACITOR	50V 20P ±5% NPO 0603	PCS	1	C222
0310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	2	C232,C255
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	17	C262~C266,C289,C290,C292,C293,C295,C296,C298,C299,C2101,C2102,C2104,C2105
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	8	C233,C2111,C2114,C2117,C2120,C2123,C2126,C206
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	2	C212,C213
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C304,C306
0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	87	C207,C211,C214,C216,C217,C224,C226~C231,C234~C239,C241~C254,C256~C259,C267~C275,C279~C288,C291,C294,C297,C301~C303,C305,C311,C312,C2113,C2150~C2157,C2161,C2163,C2164,C2166~C2168,C2170,C2171,C2174~C2176,C276,C277,C2106
310058	SMD CAPACITOR	25V 104 +80%-20% 0603	PCS	87	C207,C211,C214,C216,C217,C224,C226~C231,C234~C239,C241~C254,C256~C259,C267~C275,C279~C288,C291,C294,C297,C301~C303,C305,C311,C312,C2113,C2150~C2157,C2161,C2163,C2164,C2166~C2168,C2170,C2171,C2174~C2176,C276,C277,C2106
0310234	SMD CAPACITOR	16V 105 +80%-20% 0603	PCS	6	C201~C204,C221,C240
0310066	SMD CAPACITOR	50V 102 ±10% 0603	PCS	19	C223,C278,C313~C320,C322~C324,C2112,C2115,C2118,C2121,C2124,C2127
0310231	SMD CAPACITOR	50V 122 ±10% 0603	PCS	6	C2122,C2129,C2130,C2133,C2135,C2136
0310067	SMD CAPACITOR	50V 152 ±10% 0603	PCS	1	C215
0310068	SMD CAPACITOR	50V 222 ±10% 0603	PCS	2	C307,C310
0310201	SMD CAPACITOR	50V 153 ±10% 0603	PCS	1	C210
0310055	SMD CAPACITOR	16V 333 ±10% 0603	PCS	1	C225
0310056	SMD CAPACITOR	16V 473 ±10% 0603	PCS	2	C219,C220
0310362	SMD CAPACITOR	16V474 +80%-20% 0603	PCS	1	C218
0390044	SMD INDUCTOR	10UH ±10% 2012	PCS	2	L303,L306
0390096	SMD INDUCTOR	1.8UH ±10% 1608	PCS	6	L243~L248
0390057	MAGNETIC BEADS INDUCTOR	RH354708	PCS	9	L205,L209,L216,L217,L224~L226,L228,L302

0390095	SMD MAGNETIC BEADS	FCM1608K-221T05	PCS	43	L201,L203,L206~L208,L218~L223, L229~L238,L250,L301,L304,L305,L 307~L312,L314,L316~L324,L251,L2 52
0700007	SMD DIODE	1N4148	PCS	18	VD201,VD205~VD221
0700001	SMD DIODE	LS4148	PCS	18	VD201,VD205~VD221
700002	SMD DIODE	LL4148	PCS	18	VD201,VD205~VD221
0700004	SMD VOLTAGE REGULATOR DIODE	5.1V 1/2W	PCS	8	VD222~VD229
0780029	TRIODE	C8050	PCS	2	V307,V308
0780030	TRIODE	8550C	PCS	2	V306,V309
0780062	SMD TRIODE	9014C	PCS	1	V310
0780033	TRIODE	9015C	PCS	1	Q204
0780020	TRIODE	C1815Y	PCS	1	Q212
0780197	SMD TRIODE	C1815	PCS	6	Q205~Q210
0780043	TRIODE	2SA1015	PCS	3	Q211,Q218,Q219
0780040	SMD TRIODE	3904	PCS	1	V305
0780193	SMD TRIODE	2SK3018	PCS	2	V303,V304
0780115	SMD TRIODE	2SB1132	PCS	2	V301,V302
0881742	IC	F4558 SOP	PCS	3	U219,U220,U221
0880322	IC	MM74HCU04M SOP	PCS	1	U205
0880513	IC	HCU04 SOP	PCS	1	U205
0881415	IC	HY57V641620HGT-7 TSOP	PCS	1	U211
881872	IC	KSV464P4JA-70 TSOP	PCS	1	U211
0881182	IC	LM1117MP-ADJ SOT-223	PCS	2	U209,U206
0880212	IC	BA033FP TO252-3	PCS	1	U208
0881057	IC	CS4360 SSOP	PCS	1	U207
0881031	IC	24C02N SOP	PCS	1	U202
0882257	IC	MT1389FE/C (C VERSION) QFP	PCS	1	U201
0881378	IC	BA5954FP HSOP	PCS	1	U302
0880698	IC	HA178L05PA TO-92M	PCS	1	U210
0881612	IC	UTC78L09 TO-92M	PCS	1	U212
0960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	X201
1940120	CABLE SOCKET	13P 1.0mm DUAL LINE TOUCH POINT STRAIGHT DUAL LINE PLUG	PCS	1	XS204
1631847	PCB	2317A-2	PCS	1	
1940026	SOCKET	3P 2.0mm	PCS	1	XS302
1940022	SOCKET	4P 2.0mm	PCS	1	XS203
1940027	SOCKET	2P 2.0mm	PCS	1	XS304
1940005	SOCKET	6P 2.0mm	PCS	1	XS303
1940023	SOCKET	7P 2.0mm	PCS	1	XS201
1940094	CABLE SOCKET	24P 0.5mm SMD WITH CLASP	PCS	1	XS301
2110393	LEAD	26# 25mm BLACK WITH Ø3.2 WELDING PIECE	PCS	1	