

SERVICE MANUAL

ABS730X



CONTENTS

1.	SAFETY PRECAUTIONS	1
2.	PREVENTION OF ELECTRO STATIC DISCHARGE(ESD)TO ELECTROSTATICALLY SENSITIVE(ES)DEVICES	1
3.	CONTROL BUTTON LOCATIONS AND EXPLANATIONS	2
4.	PREVENTION OF STATIC ELECTRICITY DISCHARGE	3
5.	ASSEMBLING AND DISASSEMBLING THE MECHANISM UNIT	4
5.1	OPTICAL PICKUP UNIT EXPLODED VIEW AND PART LIST	5
5.2	MISCELLANEOUS	5
6.	ELECTRICAL CONFIRMATION	6
6.1	VIDEO OUTPUT (LUMINANCE SIGNAL) CONFIRMATION	6
6.2	VIDEO OUTPUT(CHROMINANCE SIGNAL) CONFIRMATION	7
7.	AML3298	8
8.	SCHEMATIC & PCB WIRING DIAGRAM	11
9.	SPARE PARTS LIST	35

1. SAFETY PRECAUTIONS

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 ELECTROSTATIC 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 electrostatic 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 available 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 aluminum 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, aluminum 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).

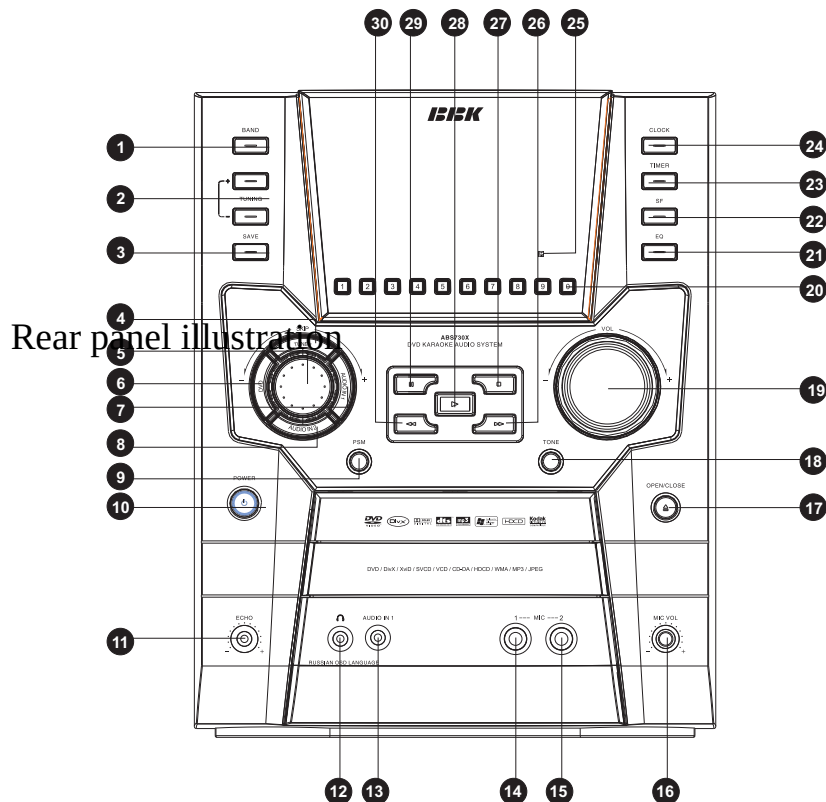
notice (1885x323x2 tiff)

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by Δ 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.

Control Button Locations and Explanations

• Front Panel Illustration 1



- | | | |
|---------------------|----------------------|-----------------|
| 1 BAND switch | 11 Echo button | 21 EQ button |
| 2 TUNING+ - | 12 Headphone jack | 22 SF button |
| 3 SAVE button | 13 Audio in 1 | 23 TIMER button |
| 4 TUNER button | 14 MIC 1 jack | 24 CLOCK button |
| 5 SKIP knob | 15 MIC 2 jack | 25 IR sensor |
| 6 DVD button | 16 MIC VOL knob | 26 FWD button |
| 7 AUDIO IN 1 button | 17 OPEN/CLOSE button | 27 STOP button |
| 8 AUDIO IN 2 button | 18 TONE button | 28 PLAY button |
| 9 PSM button | 19 VOL +/- button | 29 PAUSE button |
| 10 Power switch | 20 Number buttons | 30 REW button |

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

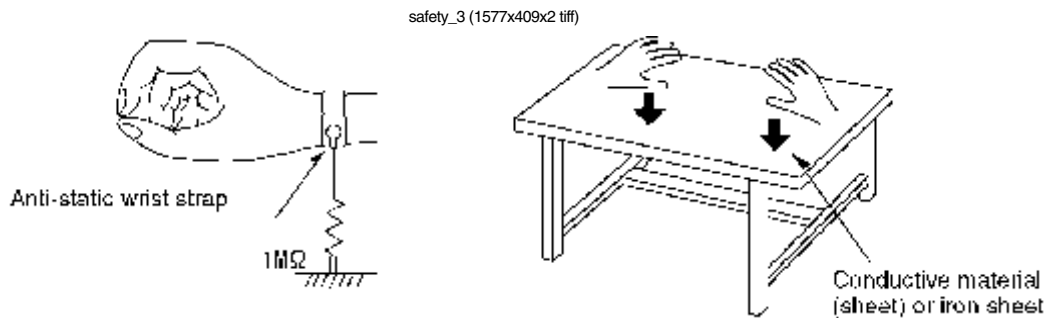
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

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.



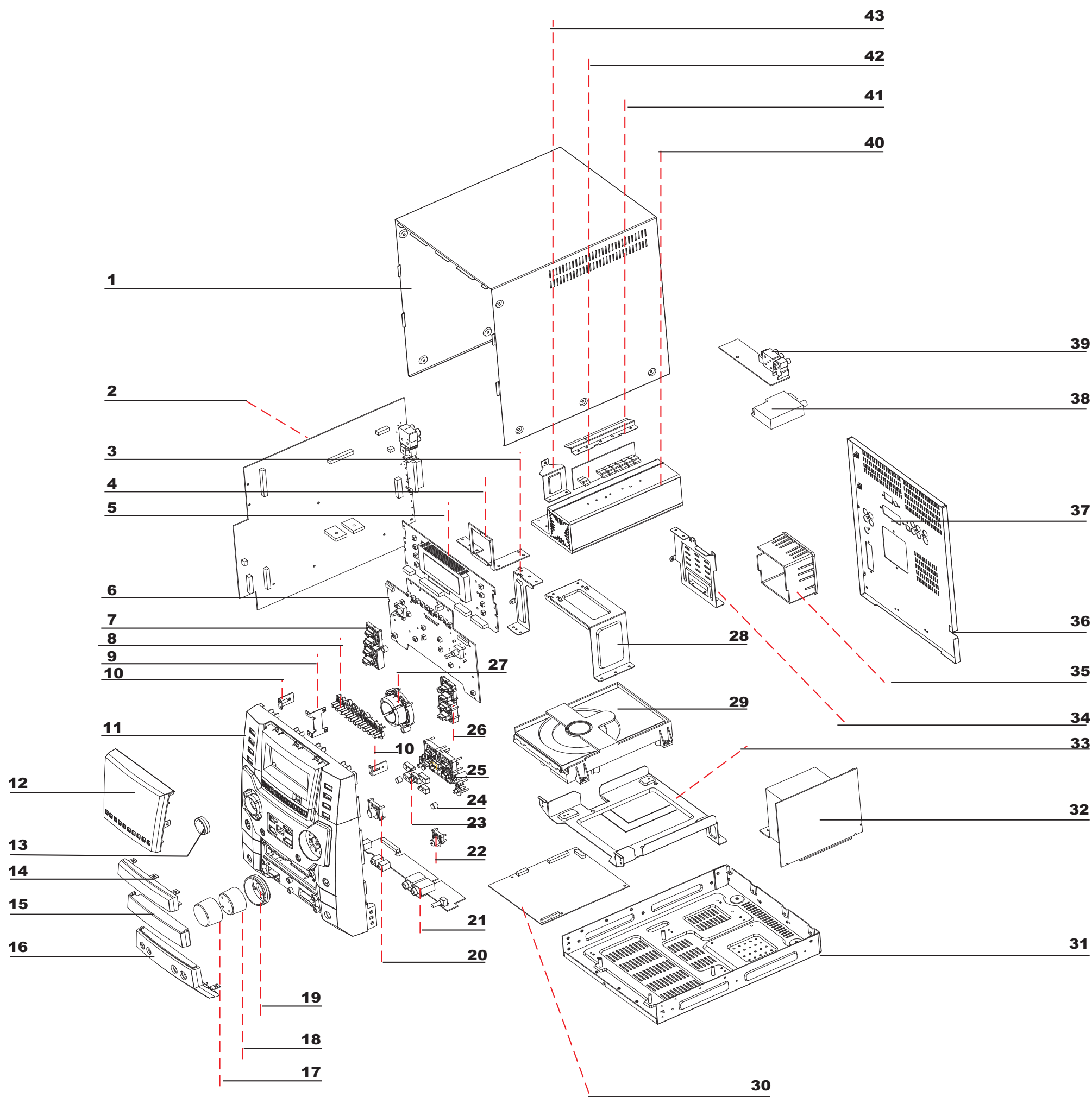
4.1.3. Handling of optical pickup

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



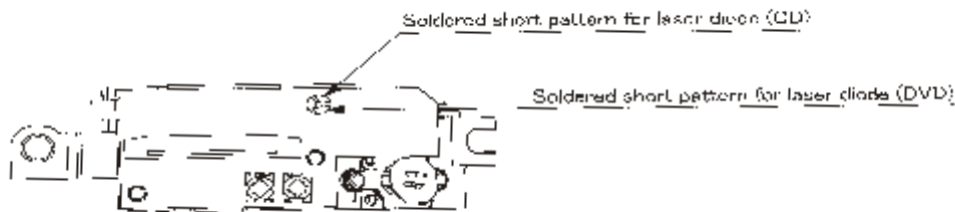
5.1 Optical pickup unit exploded view and partlist

- | | | |
|---------------------------------|-----------------------------------|---|
| 1 Upper cover | 18 Volume knob | 35 Cover for ventilation of heat radiator |
| 2 Power amplifier PCB | 19 Light conduct ring | 36 Power cord |
| 3 Left bracket of heat radiator | 20 Power button | 37 Rear board |
| 4 Backing plate | 21 MIC PCB | 38 Tuner |
| 5 Display PCB | 22 Open button | 39 Output board |
| 6 Front panel PCB | 23 Cap of function button | 40 Heat radiator |
| 7 Left function button | 24 Decorative button | 41 IC press plate |
| 8 Number button | 25 5-direction function button | 42 Supplementary power board |
| 9 PCB bracket | 26 Right function knob | 43 Power amplifier PCB bracket |
| 10 Bracket of upper casing | 27 4-direction function button | |
| 11 Surface casing | 28 Right bracket of heat radiator | |
| 12 Display glass | 29 Loader | |
| 13 Left function button | 30 Decode board | |
| 14 Upper decorative board | 31 Bottom board | |
| 15 Door | 32 Power board | |
| 16 Lower decorative board | 33 Loader bracket | |
| 17 Knob cover | 34 Rear bracket of heat radiator | |

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

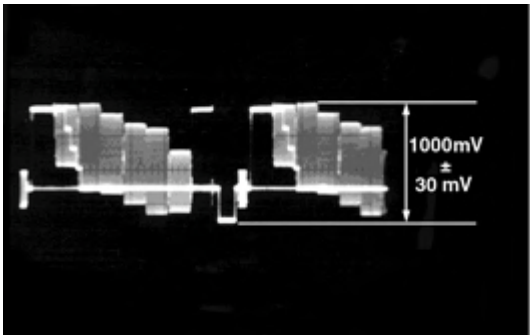
6.1. Video Output (Luminance Signal) Confirmation

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±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±30mV



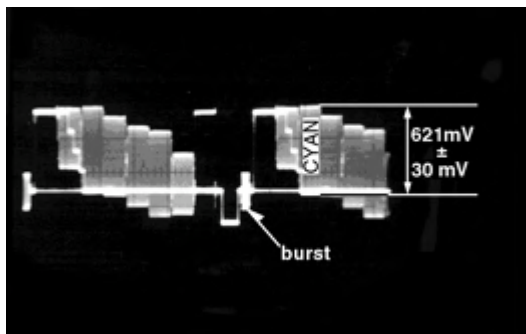
6.2 Video Output(Chrominance Signal) Confirmation

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



1 Overview

The AML3298 A/V processor is a completely integrated system targeting all types of Audio/Video decoder applications that provide connectivity to hard disk, digital camera, MP3 players and other external digital consumer devices. The target market for AML3298 A/V processor is feature rich DVD players, audio receivers, DVD/receiver combo players, digital media players, portable DVD players, and portable media players.

The AML3298 combines full function of MPEG-1, MPEG-2 and MPEG-4 decoding, numerous dedicated and general-purpose peripherals, and a high speed 32-bit host CPU in a single device. The AML3298 has two built-in AMRISC™ RISC processors with special instructions to accommodate audio and video digital signal processing. The AML3298 also provides a high speed interface to external USB 1.1/2.0 chip for connectivity to popular USB devices like hard disk, Flash memory, digital camera and MP3 players.

The embedded 32-bits host CPU handles system initialization, DVD navigation, and other system applications. The AML3298 A/V processor provides a glueless interface to all external components: ATAPI loaders, USB interface chip, audio DACs and memory. Numerous general-purpose I/O pins can be used to control the front panel display and other miscellaneous tasks. The Flash interface allows the Flash memory to be shared with the front-end chip to reduce system cost in mono-board designs. Together, the embedded host CPU and special glueless interfaces reduce the total system cost for all A/V applications from any media.

The AML3298 A/V processor also integrates an NTSC/PAL TV encoder that supports S-Video, composite, YUV component and RGB. The video encoder also supports high-quality de-interlaced progressive scan (480p/576p) with full Macrovision support. Contrast enhancement, hue adjustment, video scaling, video interpolation, pan-scan, letter-box, and zoom are also supported. In addition, four built in video DACs complement the video encoder further reducing system cost. In addition, the AML3288 devices can also provide CCIR601 and VGA video output.

The integrated AMRISC™ RISC processor is designed to support advanced digital audio processing. The micro-coded engine provides support for all existing audio formats and it also has enough flexibility to accommodate new audio standards. Popular audio formats like Dolby AC-3 5.1, HDCD, MP-3 and WMA are supported. In addition, SPDIF (IEC958) input and outputs are supported.

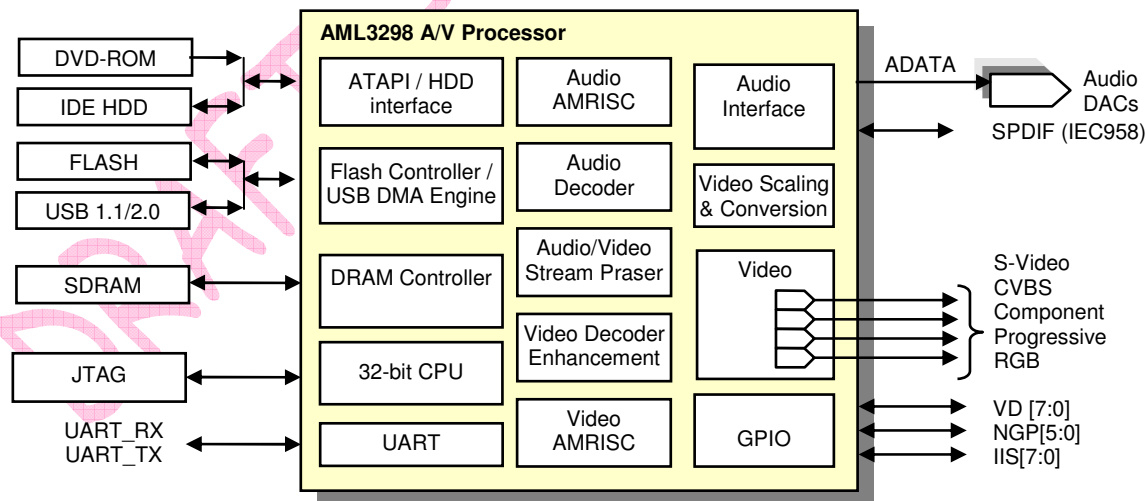


Figure 1 AML3298 Block Diagram

2 Features

MPEG 1/2/4 Decoding

- MPEG-4 and Divx 3.x/4.x/5.x complaint
- MPEG-2 ML/MP conforming to ISO-13818
- MPEG-1 ML/MP conforming to ISO-11172
- On-chip CSS descrambler
- Flexible DRM engine for content management
- Compliant with DVD Specification 1.0 for read-only Disc decoding
- Advanced error detection, concealment, and recovery scheme
- Backward compatible VCD (1.0 - 2.0) decoding
- Super VCD decoding
- Built-in AMRISC™ 24-bit 133 MHz RISC CPU with special instruction extensions designed specifically for MPEG decoding

Video

- Full MPEG-2 main profile @ main level 4:2:0 video decoding
- Advanced pixel based de-interlacing algorithm
- On-Screen-Display (OSD) capable of supporting up to 256 prefixed colors or 16 programmable colors
- OSD Alpha-blending over video display
- Automatic scaling of sub-standard size DivX clips
- Video Zoom in for visual effects
- Built-in full screen NTSC to PAL scaling or vice-versa
- Built-in contrast enhancement and hue adjustment
- Built-in hardware for video interpolation and decimation
- Supports maximum zoom ratio up to 8X

Graphics

- Anti-flicker hardware for interlaced video
- Supports high speed block move for panning
- Built-in 2D graphics accelerator
- Dedicated graphics display controller separate from MPEG engine for optimal video overlay performance
- Supports NTSC and PAL graphics modes with maximum 64K color
- Video overlay with graphics and vice-versa
- Unified MPEG and graphics memory architecture for maximum flexibility and system cost savings

Built-in TV encoder

- Quad 10-bit video DACs
- Real-time Interlaced NTSC output 720x480 at 30 fps and PAL 720x576 at 25 fps. Macrovision 7.1L1 anti-taping process
- NTSC Progressive output (480p) at 60fps, PAL Progressive (576p) at 50fps. Macrovision 1.03 anti-taping process
- Interlaced: S-Video, component, composite and SCART output
- Close caption
- Progressive RGB

Audio

- Built-in AMRISC™ RISC CPU with extensions specifically designed for Audio Processing
- Compliant with Dolby AC-3 5.1 channel decoding
- AC-3 two channel down-mixing
- SPDIF (IEC958) input and output
- Full MPEG audio layers I, II and III (MP3)
- Supports 8 channel linear PCM output
- DTS, HDCD, MP3 and WMA

Built-in Host CPU

- 133Mhz 32-bit CPU dedicated for user applications
- Embedded debug interface using ICE/JTAG
- Able to utilize MPEG SDRAM as run time data storage for minimal system cost
- Configurable for 16-bit wide SDRAM
- Support 8 or 16-bit FLASH
- FLASH memory can be shared with Front-End chips

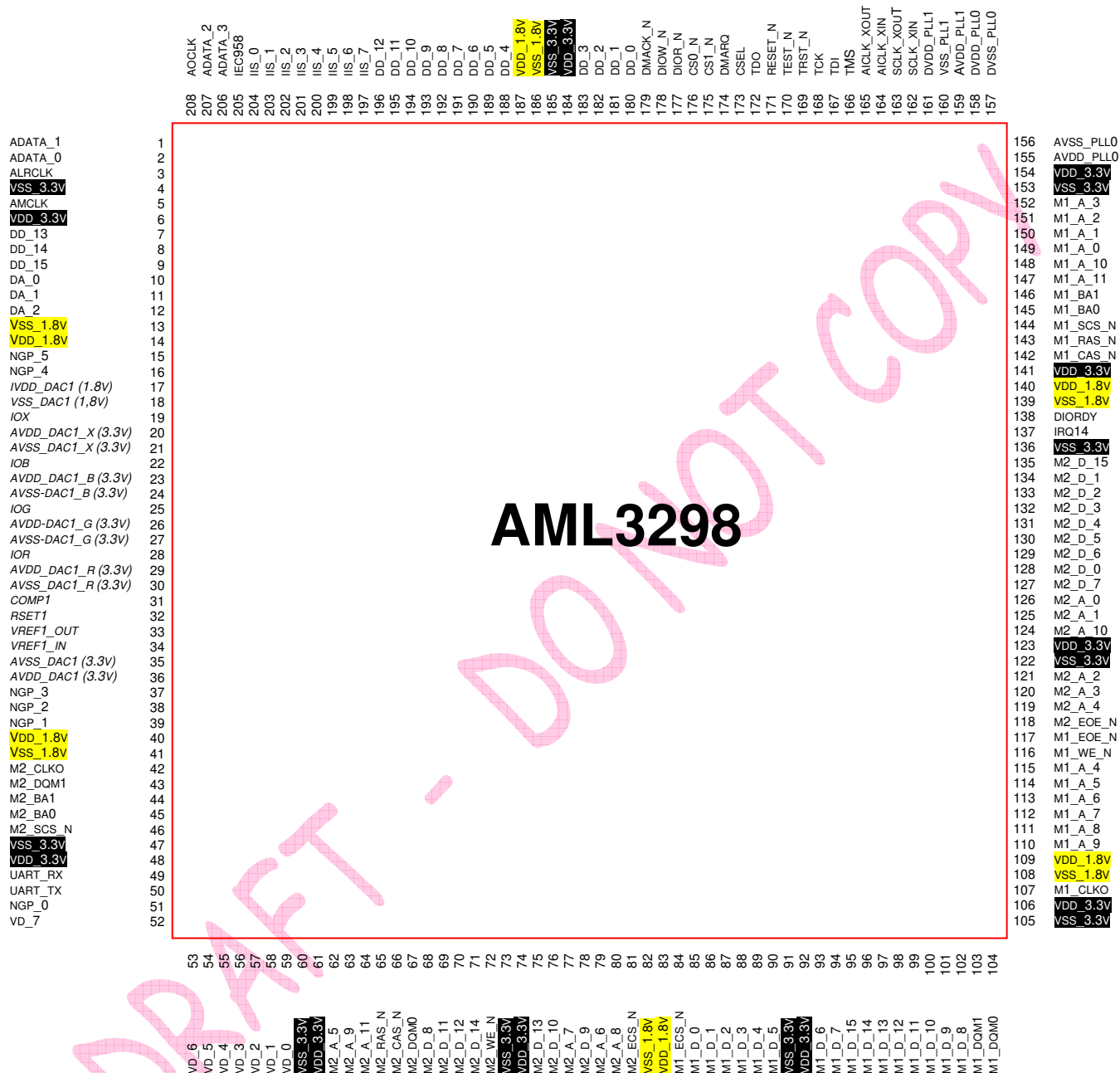
Peripherals and Interface

- High speed (DMA) direct connection to third party USB chip
- Supports glueless interface to DVD DSP, CD DSP, and DVD-ROM devices
- Direct connection to Audio DACs using I²S
- General Purpose I/O pins
- IDE with DMA transfer supporting up to 2 IDE devices such as ATAPI DVD-ROM and IDE hard disk
- ISA interface

Miscellaneous

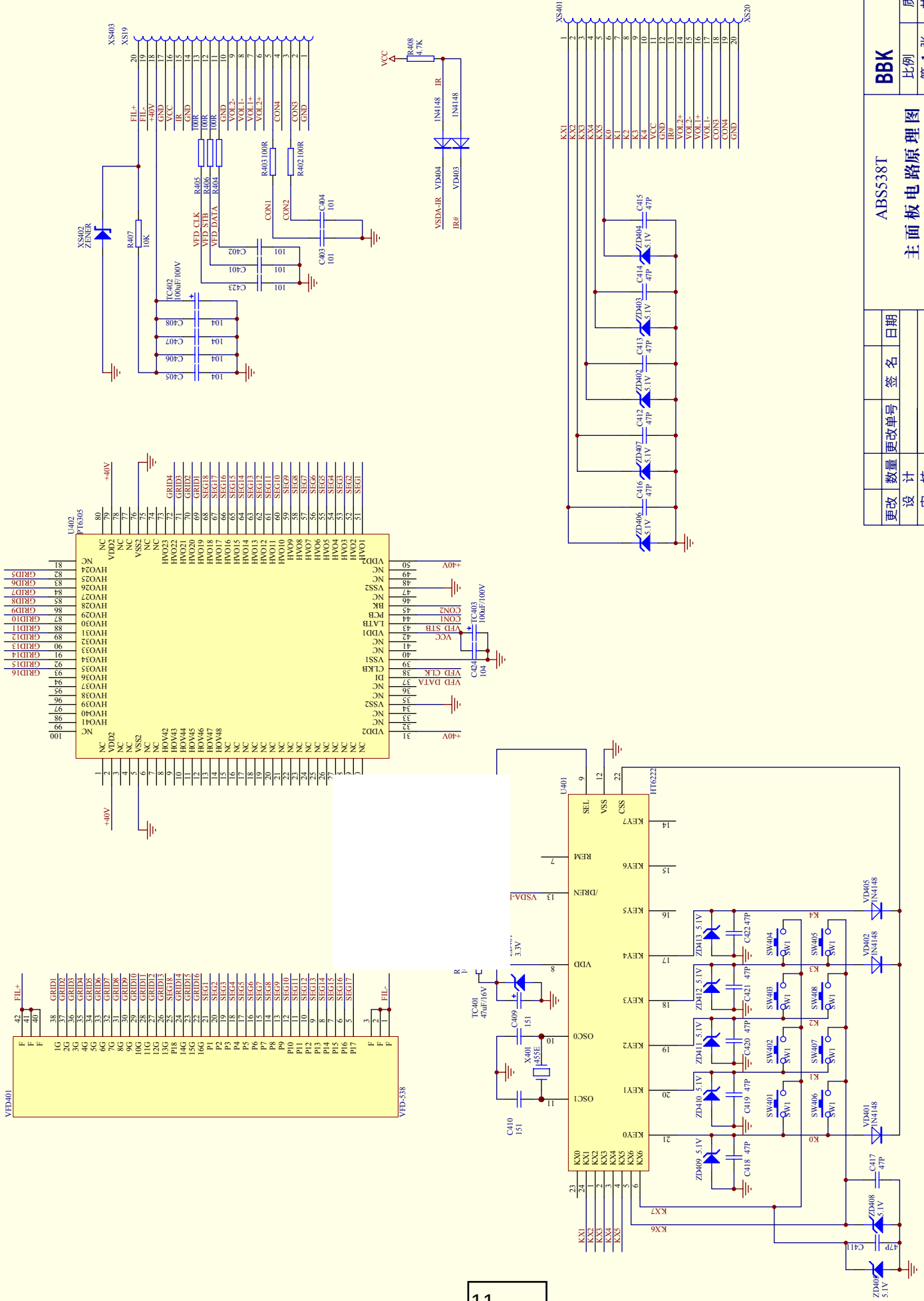
- 208-pin PQFP
- 1.8V operating voltage, 5V tolerant inputs, 3.3V output

3 AML3298 – 208 Pin Package Diagram



8. SCHEMATIC & PCB WIRING DIAGRAM SCHEMATIC & PCB WIRING DIAGRAM

FRONT SCHEMATIC DIAGRAM



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主面板电路原理图

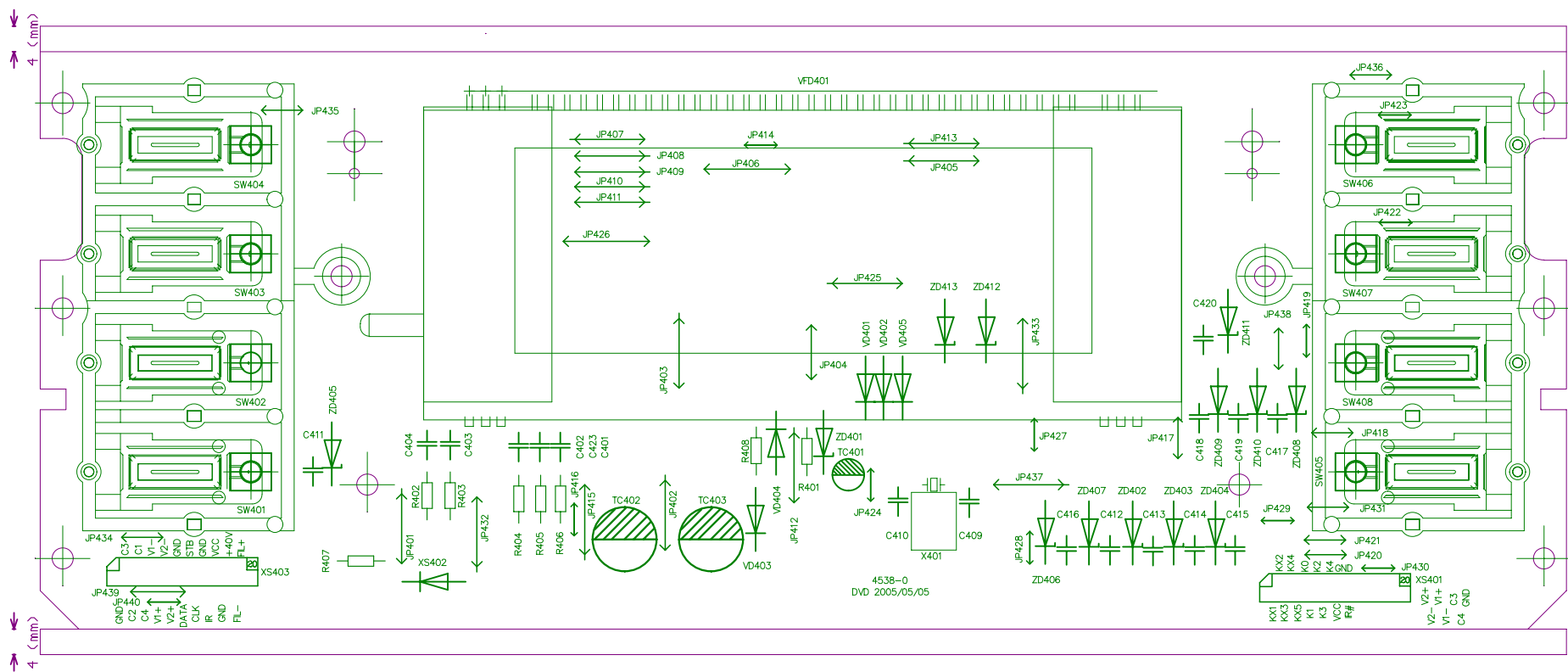
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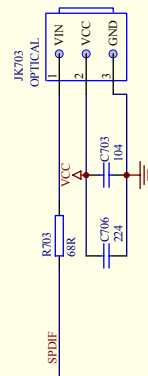
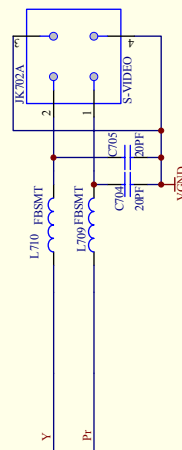
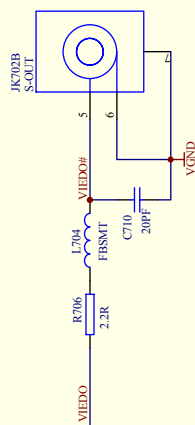
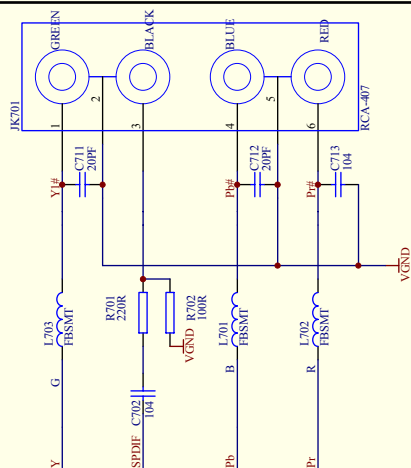
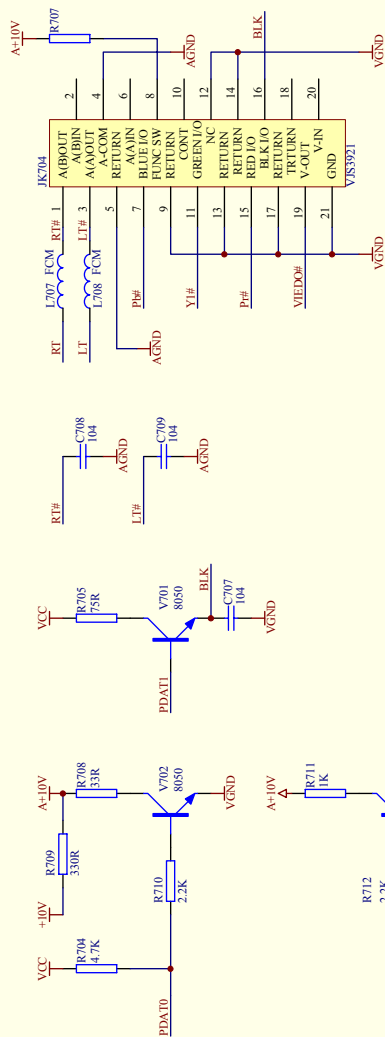
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广东步步高电子工业有限公司AV厂

FRONT SCHEMATIC DIAGRAM

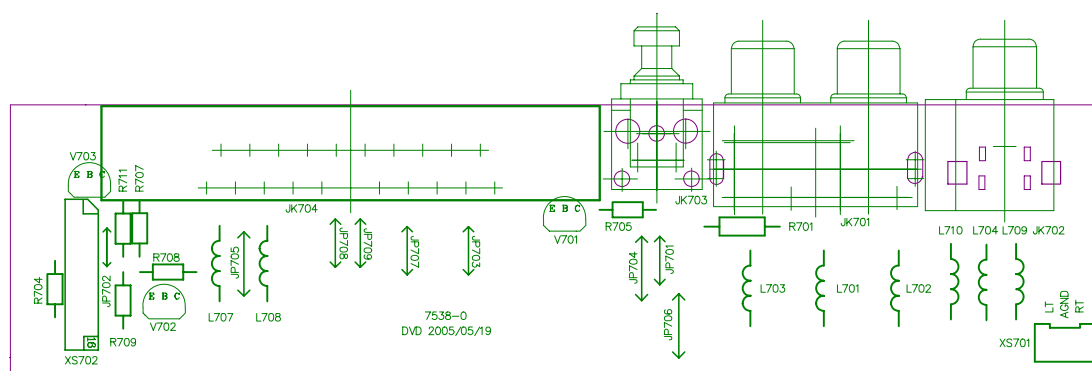


OUTPUT BOARD SCHEMATIC DIAGRAM

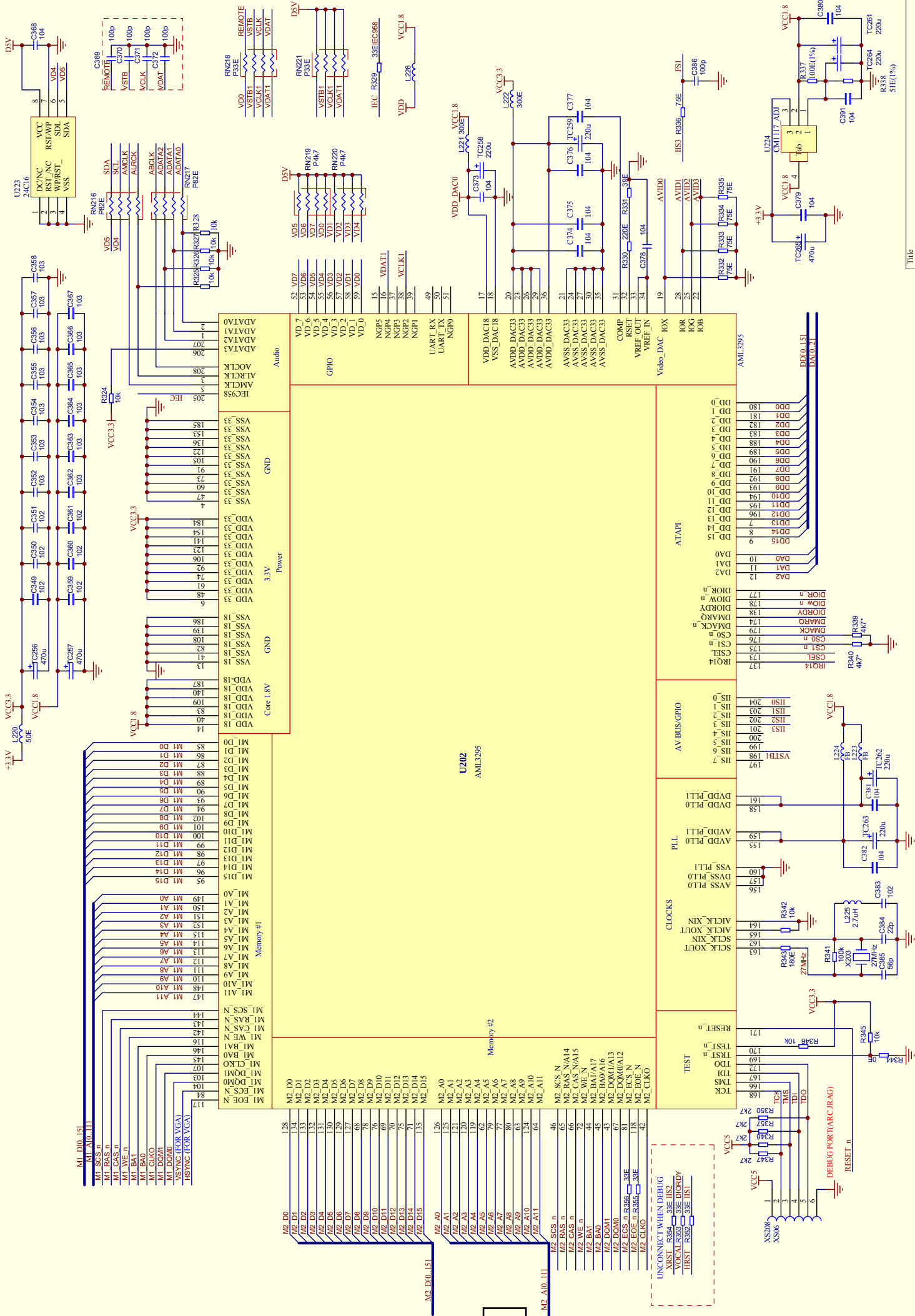


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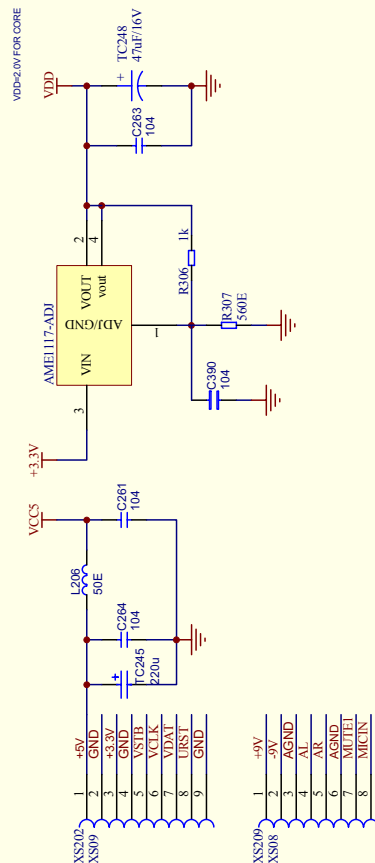
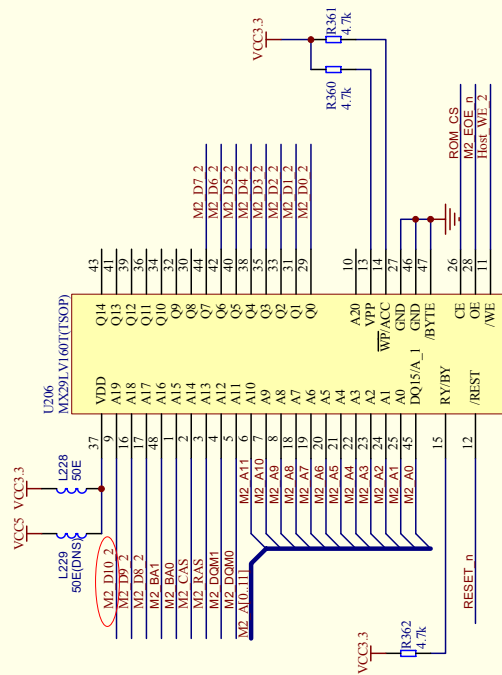
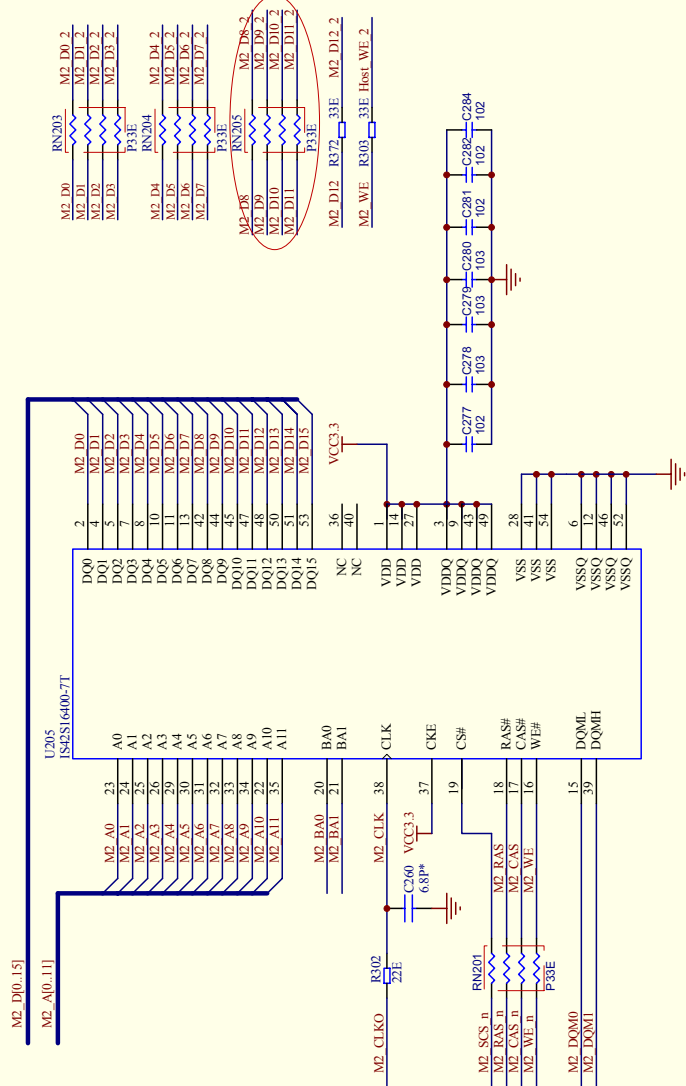
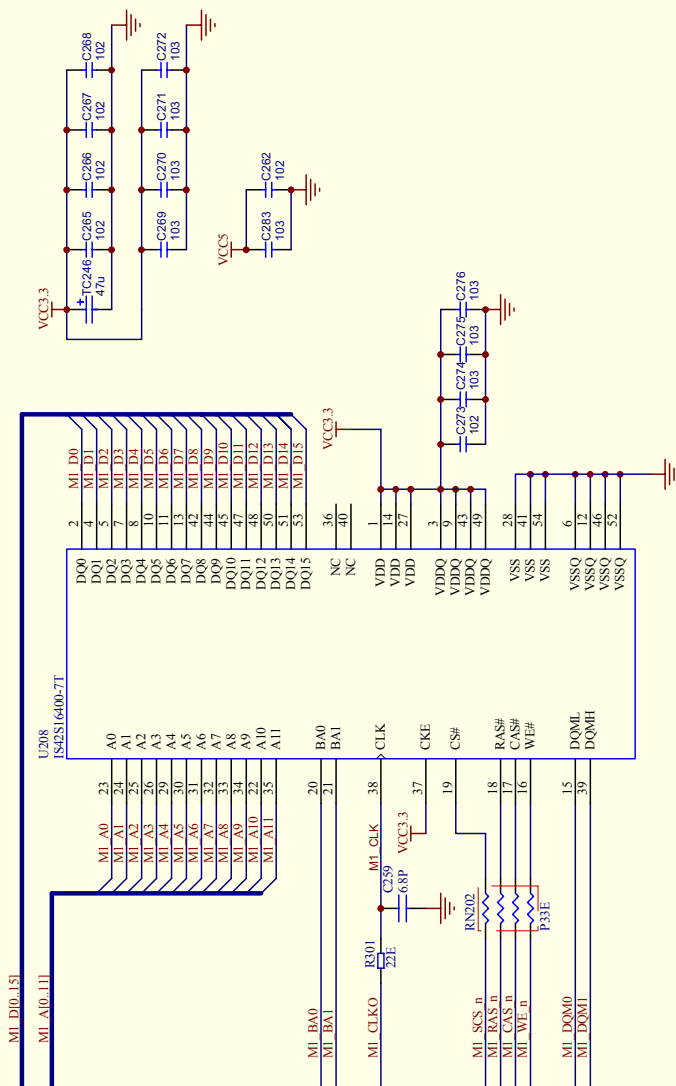
OUTPUT BOARD SCHEMATIC DIAGRAM



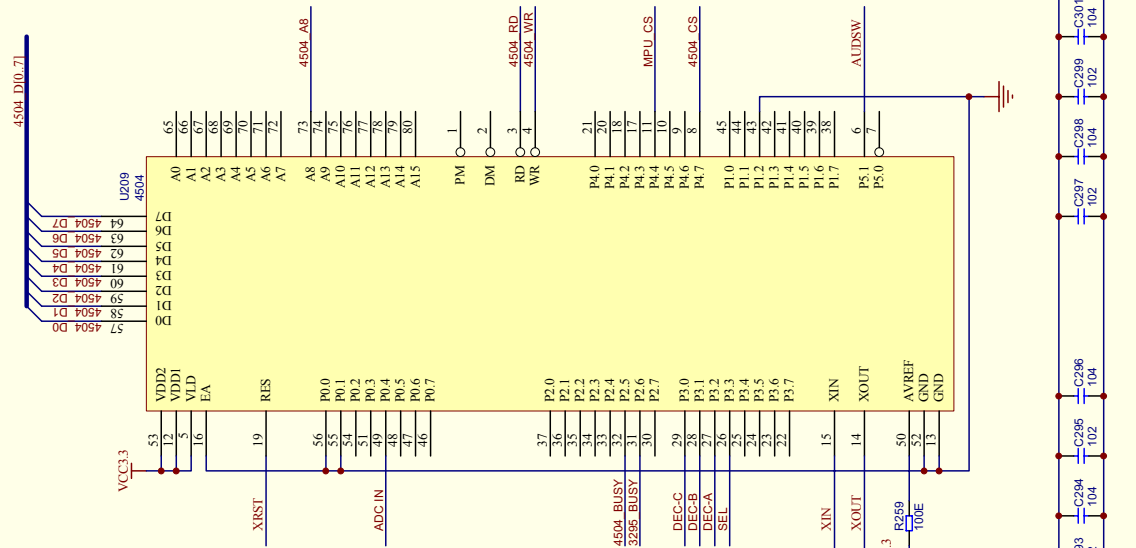
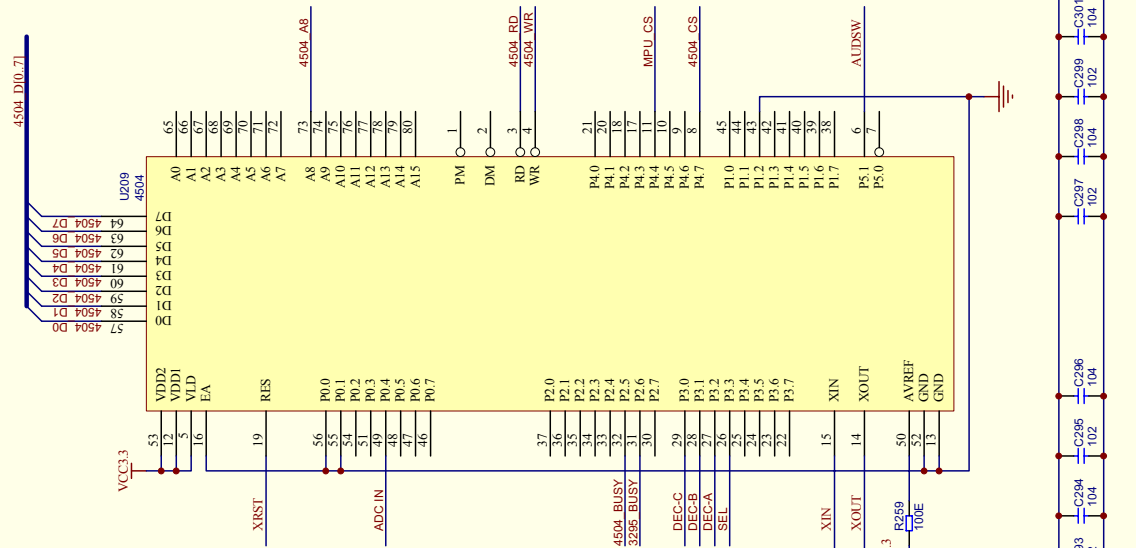
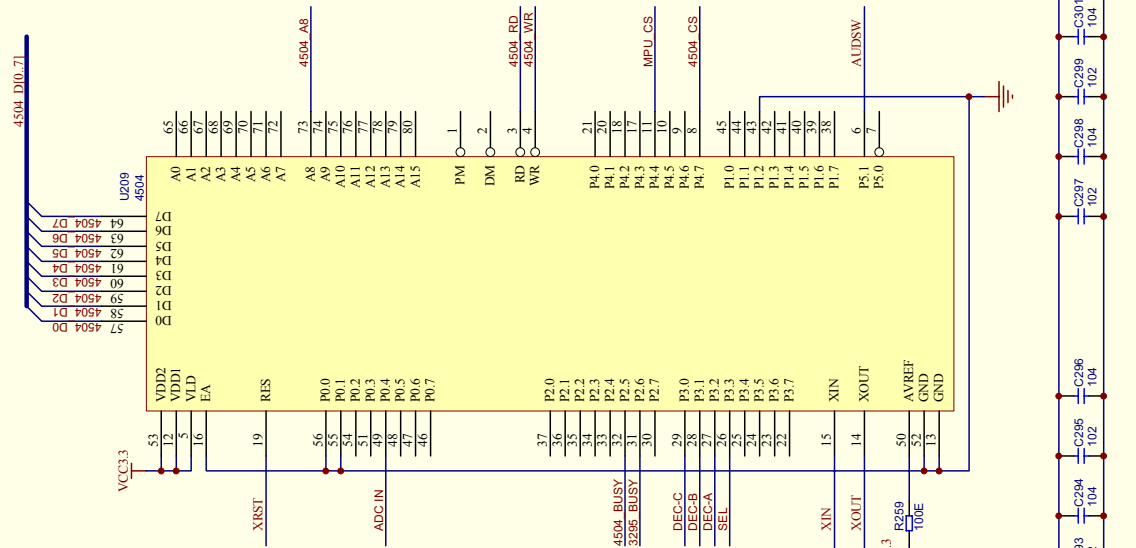
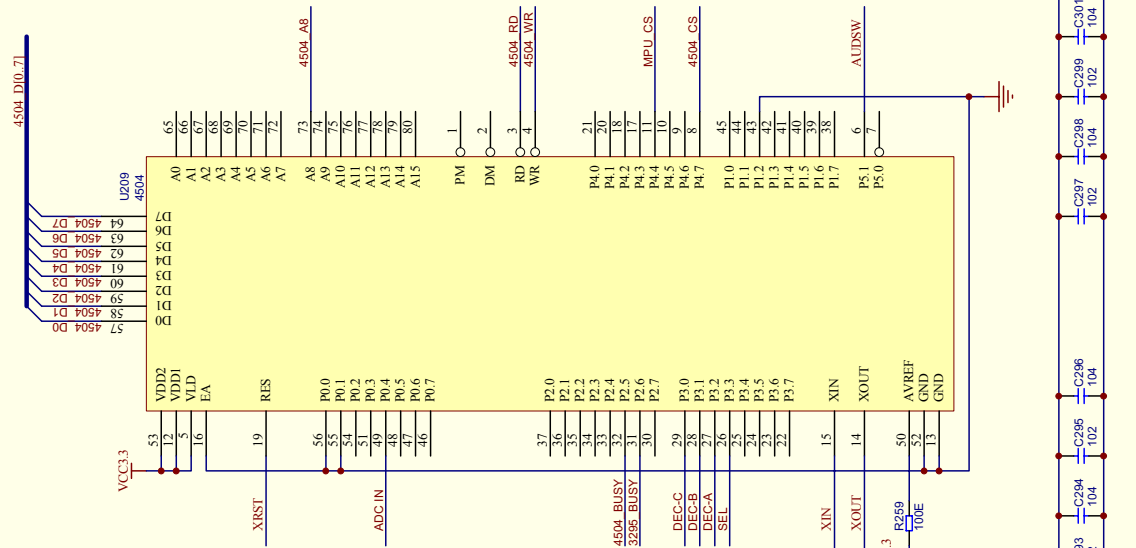
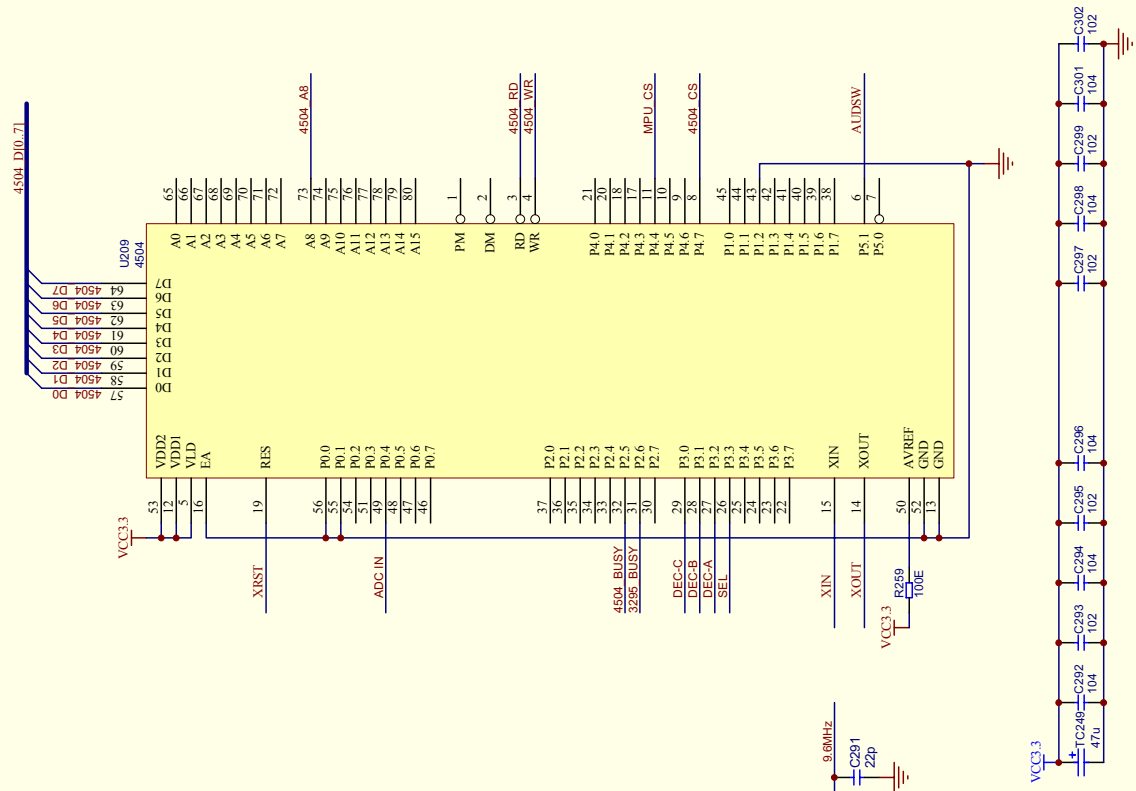
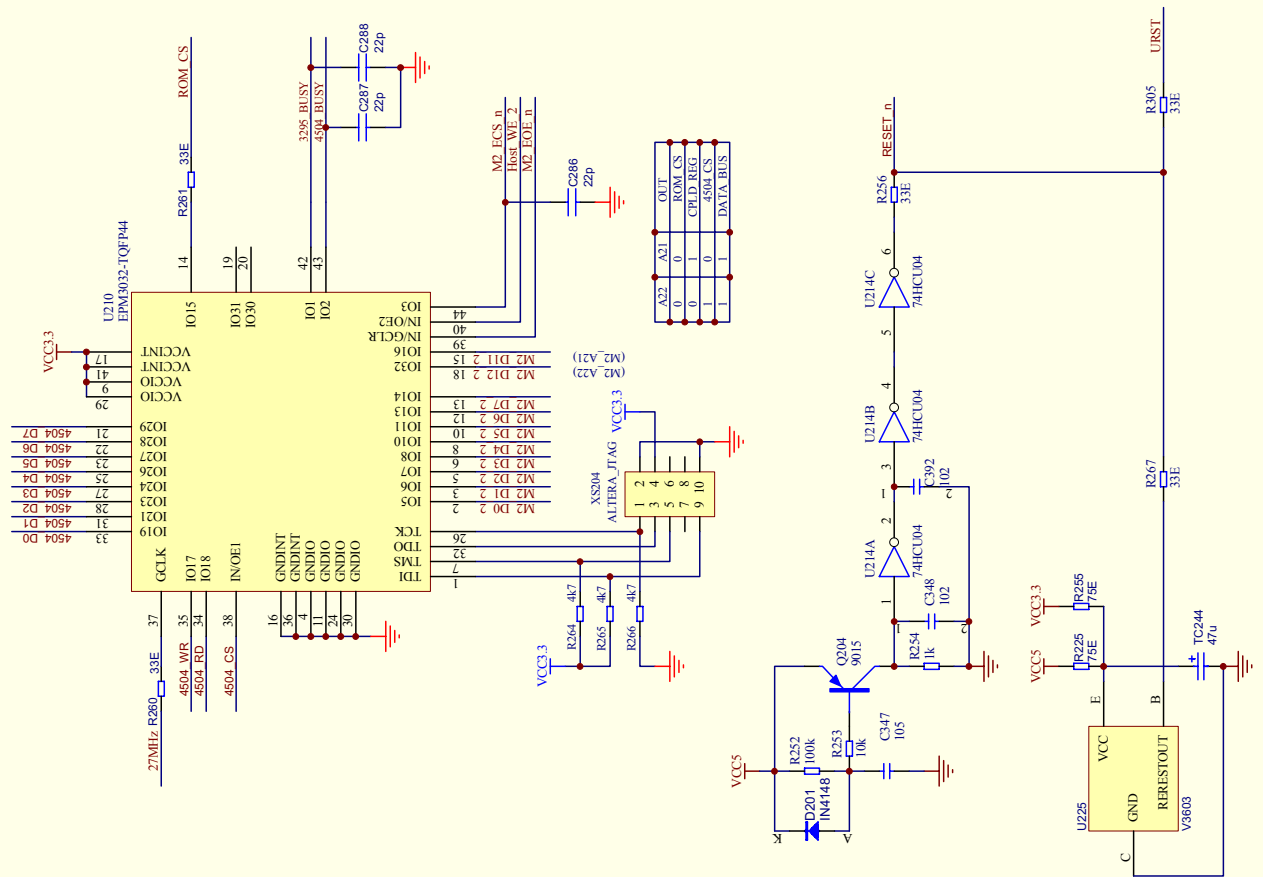
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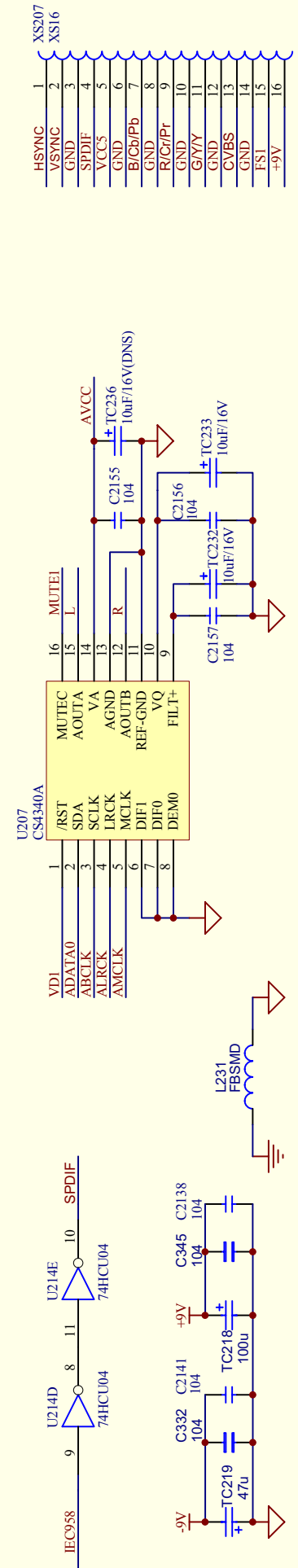
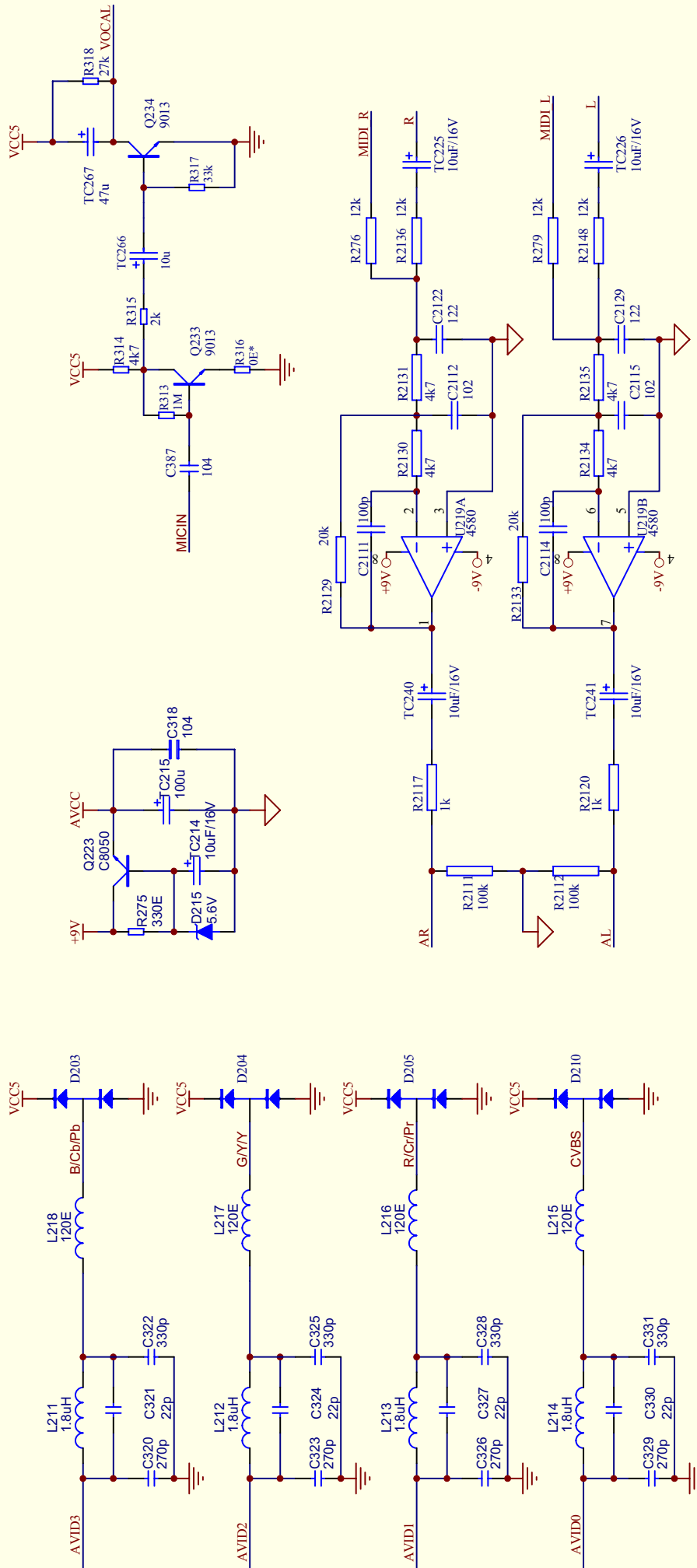


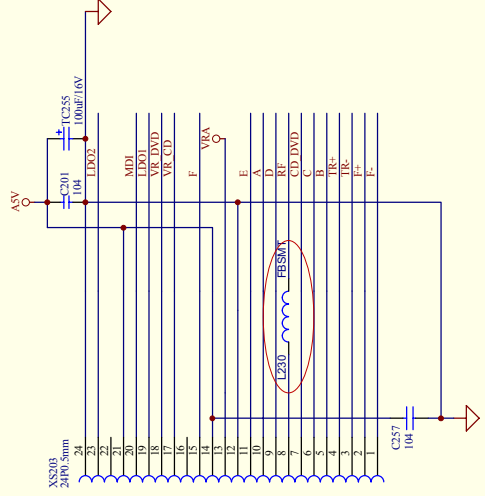
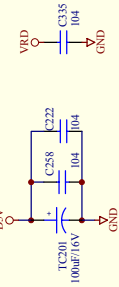
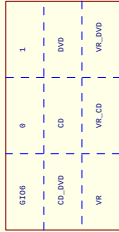
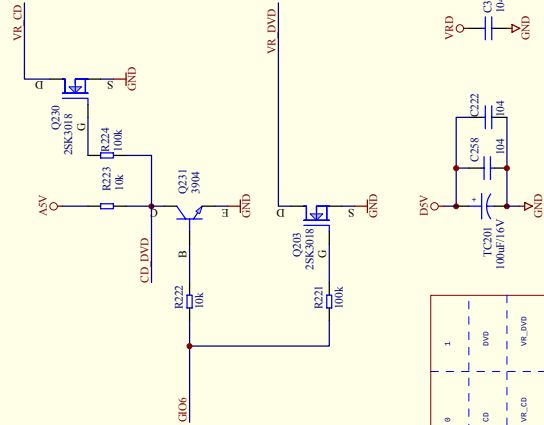
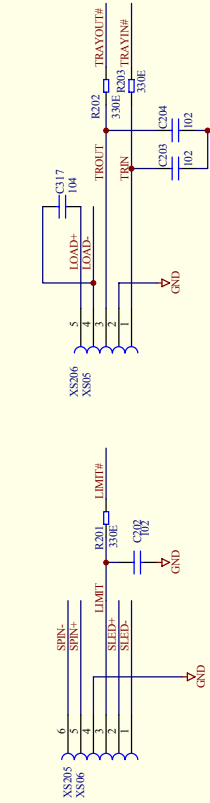
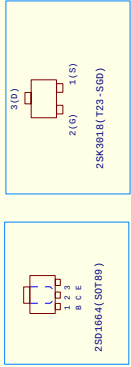
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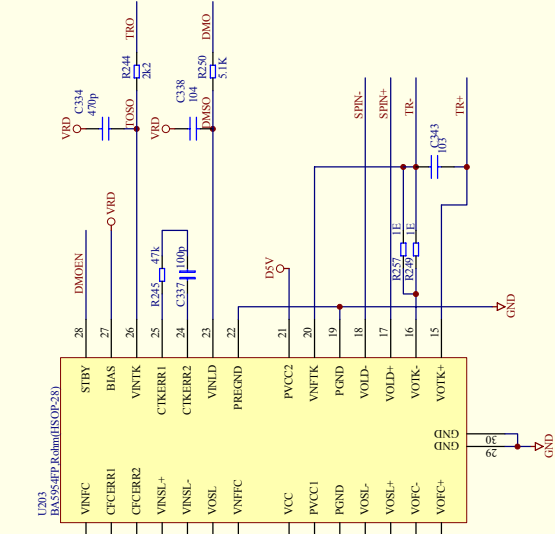
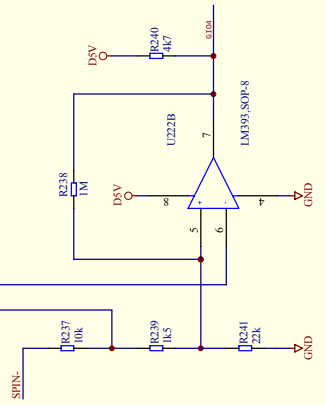
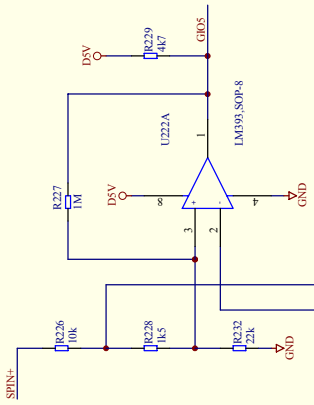
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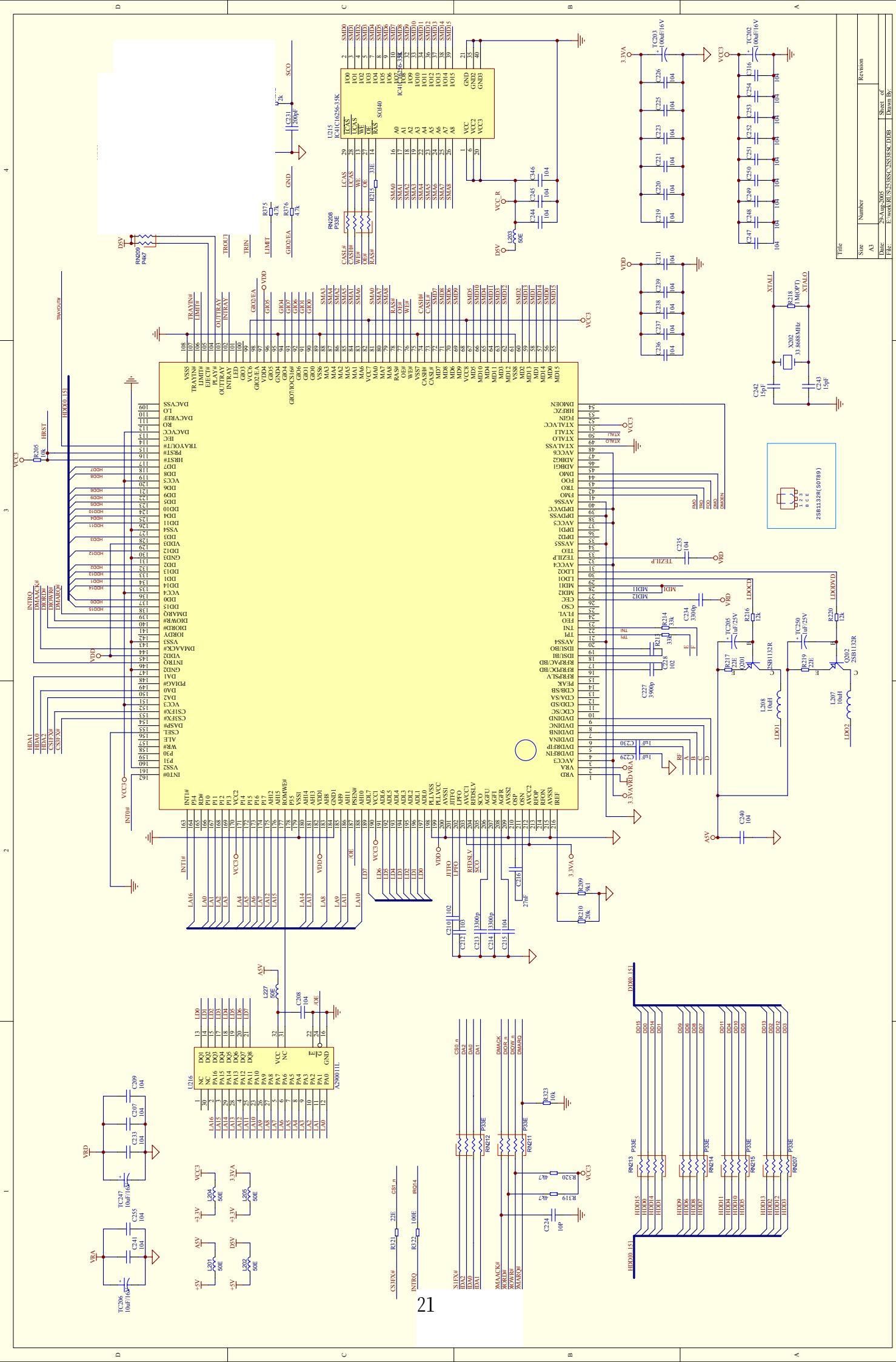




This connector (CN2) support DV34

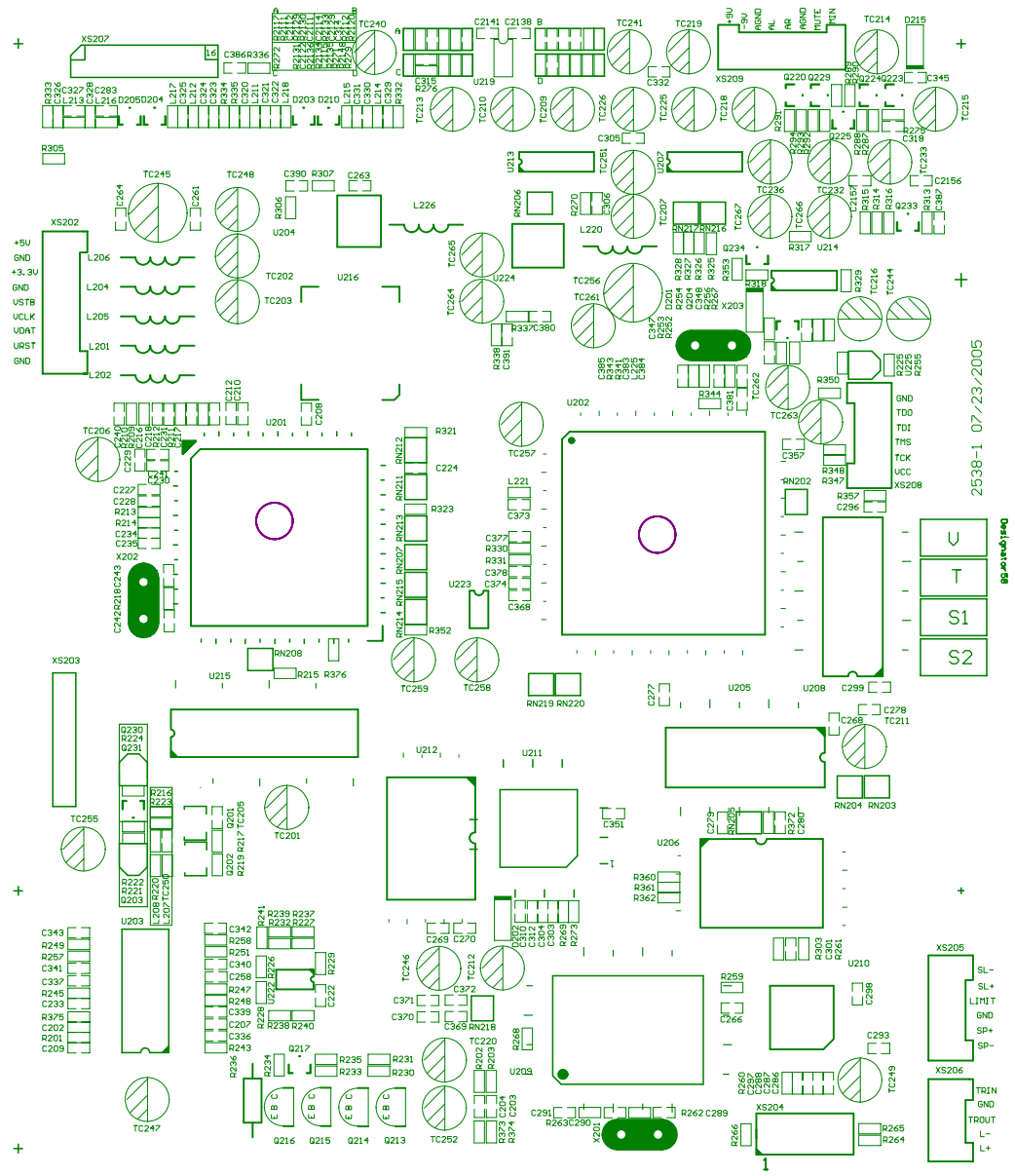


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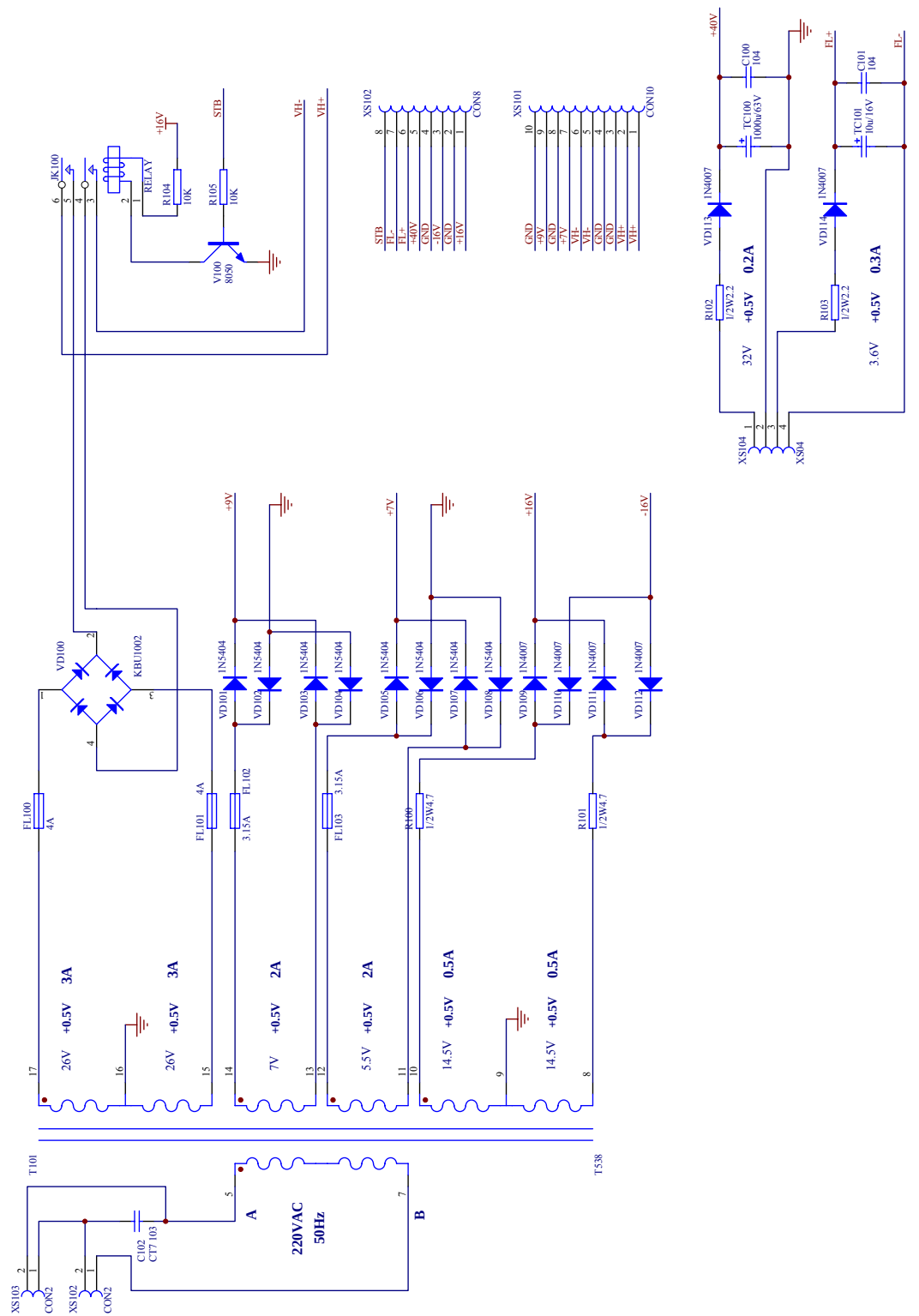


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MIAN SCHEMATIC DIAGRAM

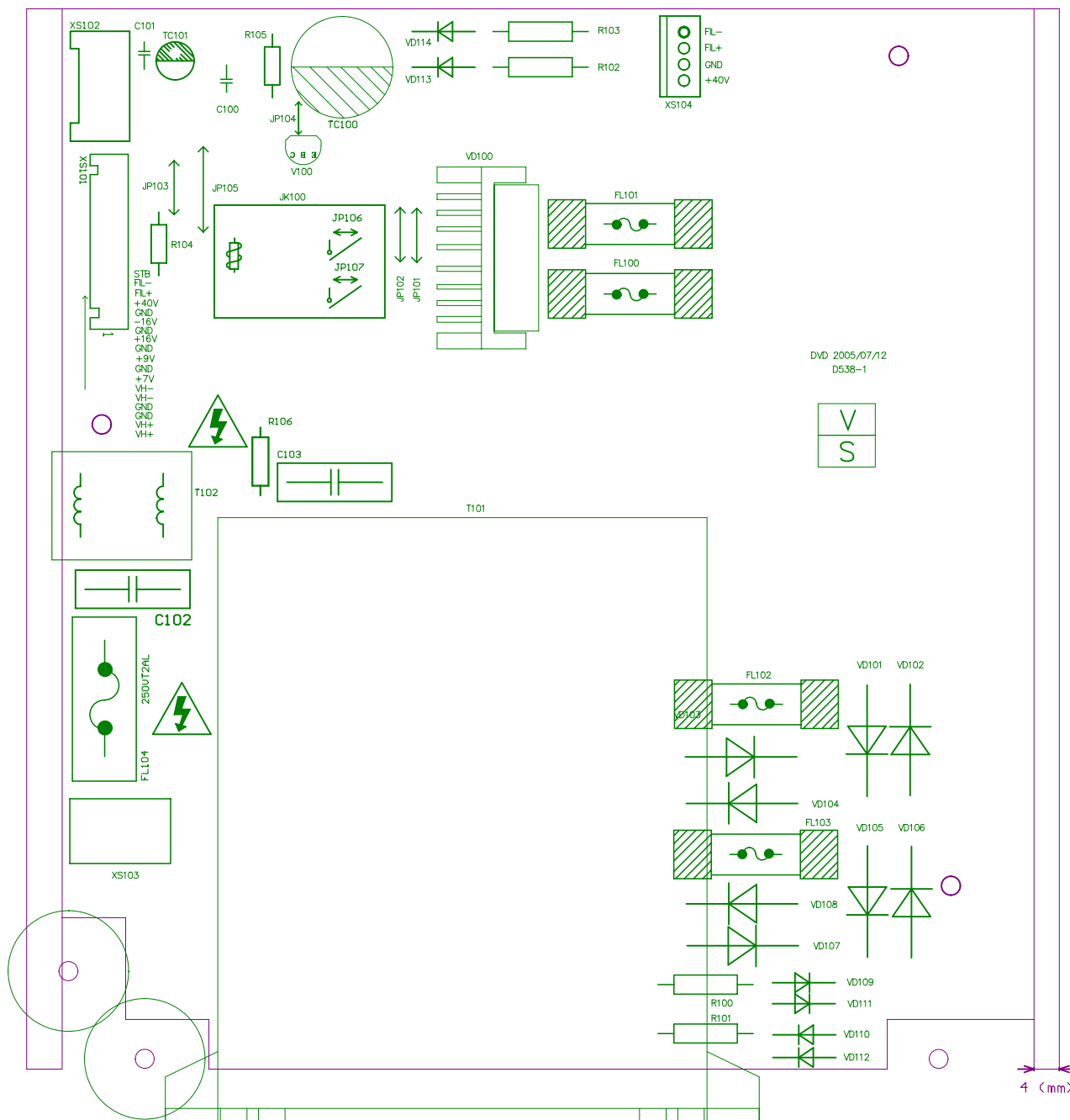


POWER SCHEMATIC DIAGRAM

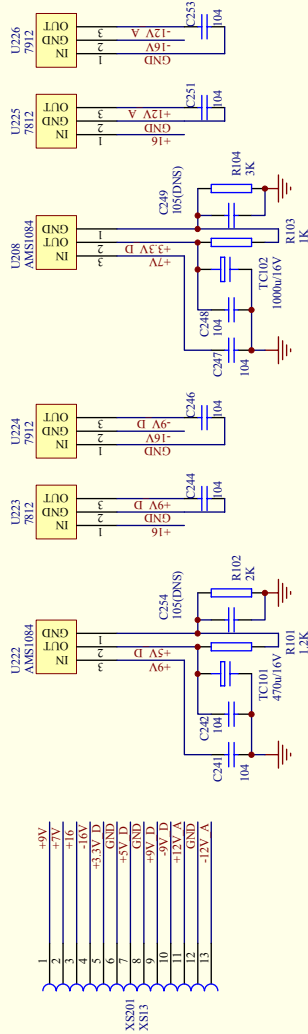


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设计					电源板电路原理图	比例
审核					第 3 张	质量 共 5 张
标准化						数量 1:0
批 准					板号：A538SA3	版次
					广东步步高电子工业有限公司AV厂	

POWER SCHEMATIC DIAGRAM

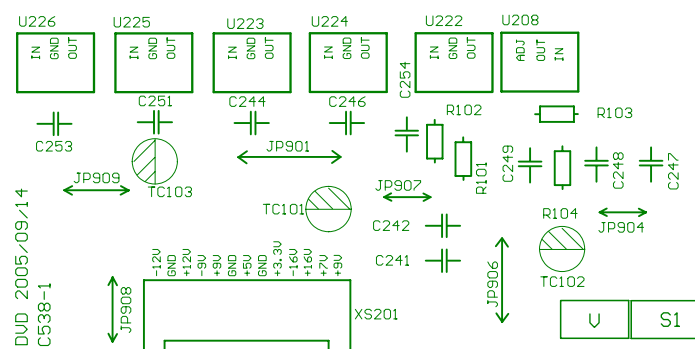


UBSIDIARY POWER SCHEMATIC DIAGRAM

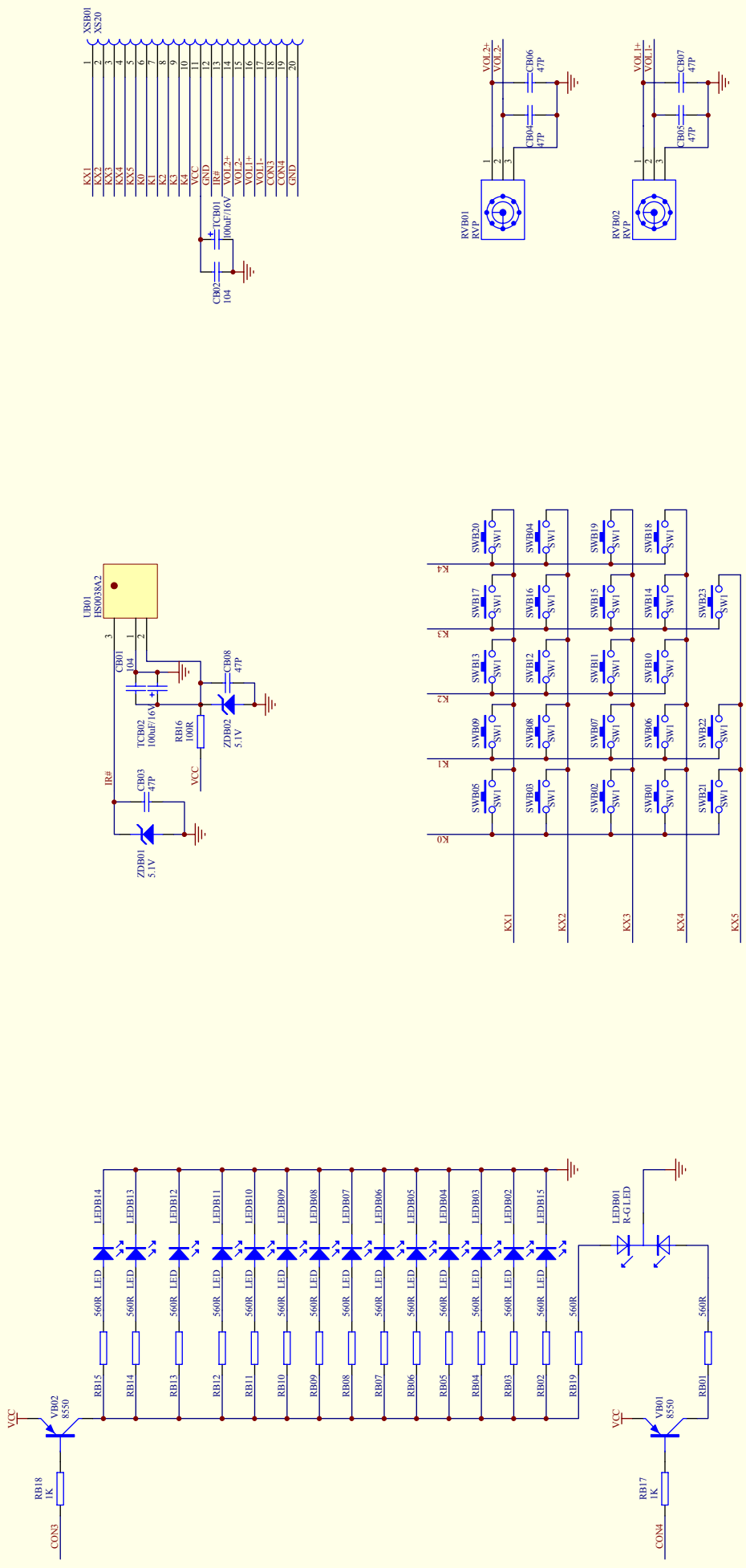


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设计	审核	批 准			
ABS538		功放板电路原理图			
BBK		比例	质量	数量	
第 3 张		共 5 张	版次	1.0	
板号：C538SA		广东步步高电子工业有限公司AV厂			
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UBSIDIARY POWER SCHEMATIC DIAGRAM

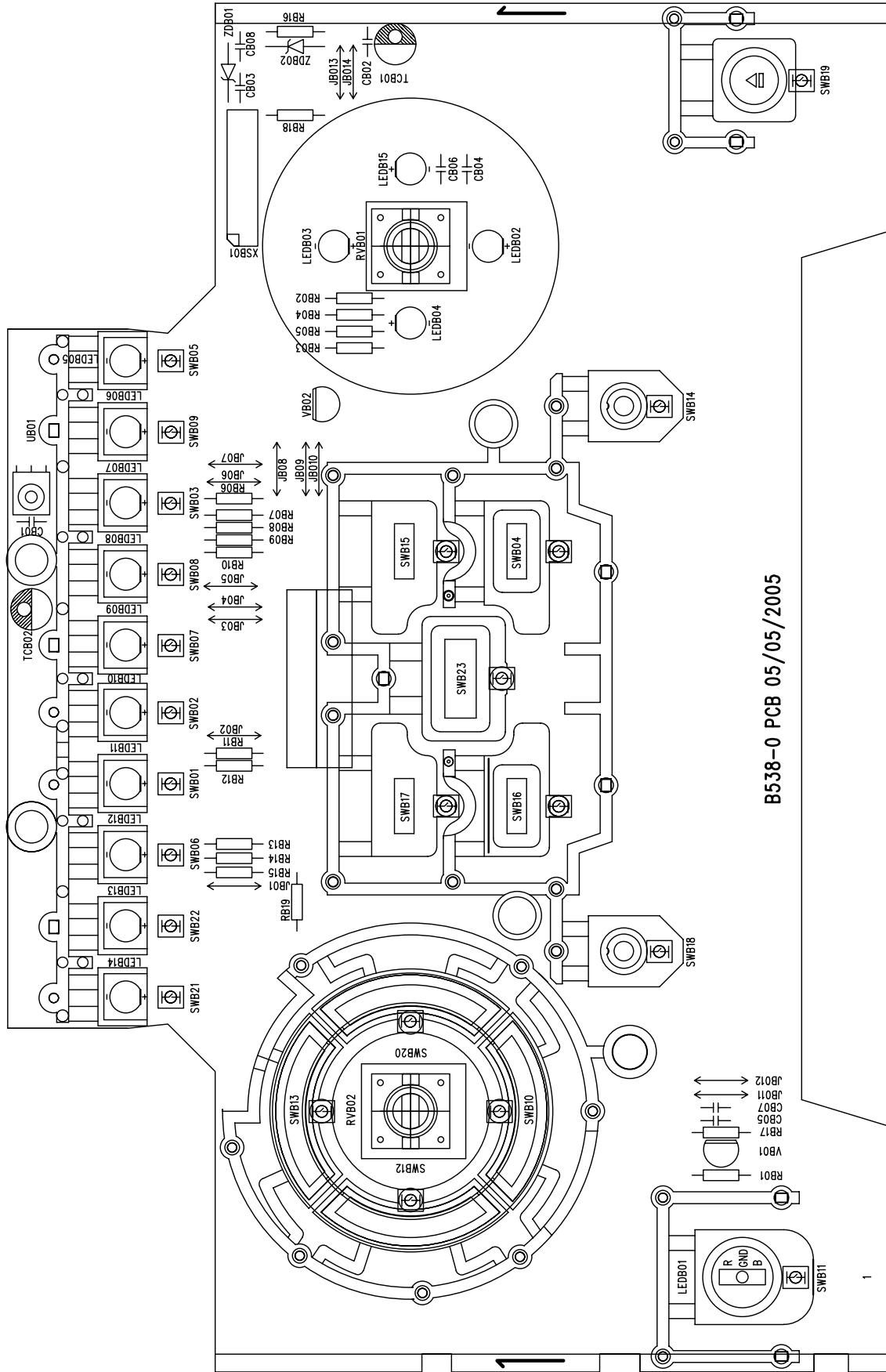


SUBSIDIARY PANEL SCHEMATIC DIAGRAM



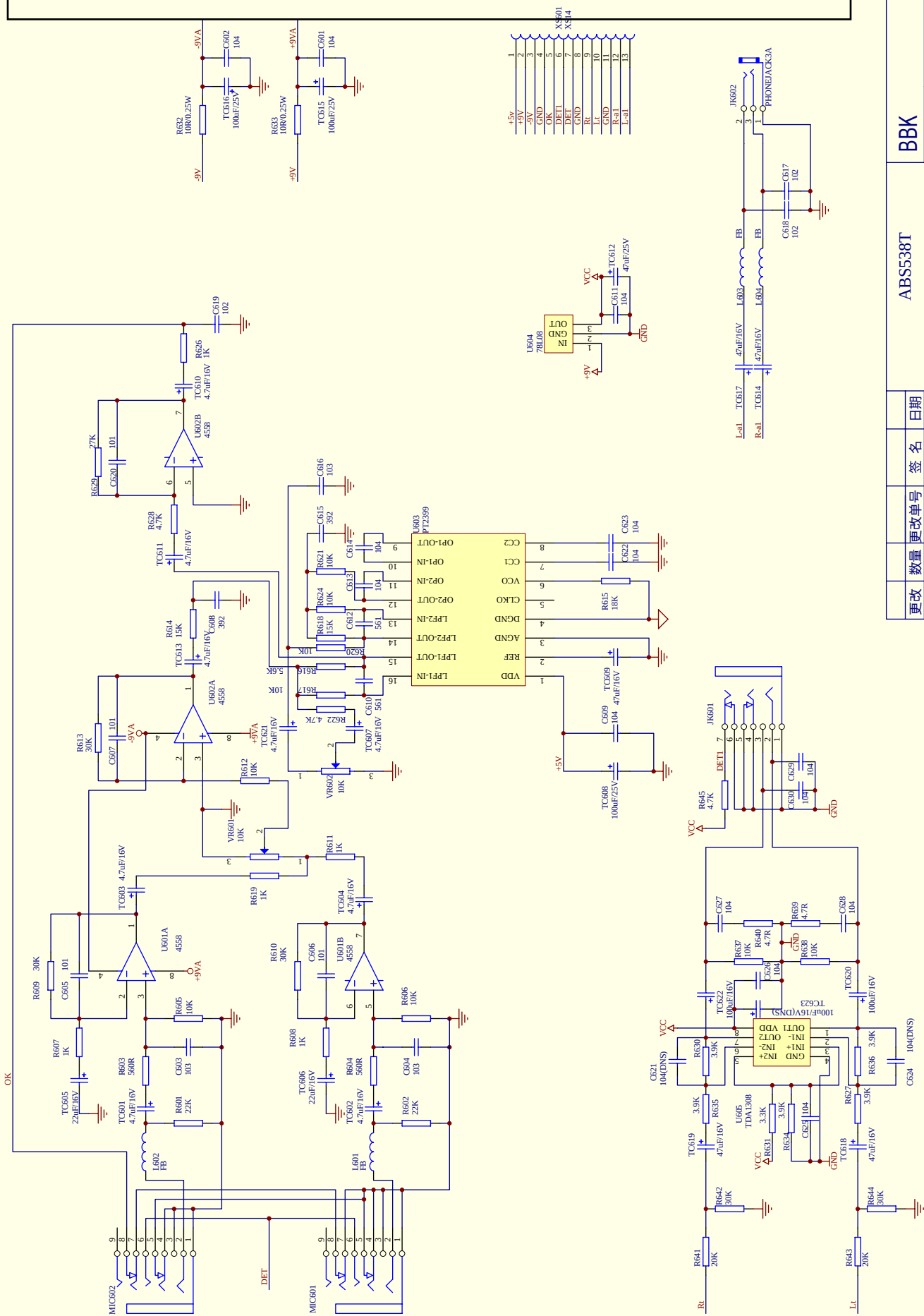
ABS538T		BBK	
主面板电路原理图		比例	数量
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		广东步步高电子工业有限公司AV厂	

SUBSIDIARY PANEL SCHEMATIC DIAGRAM



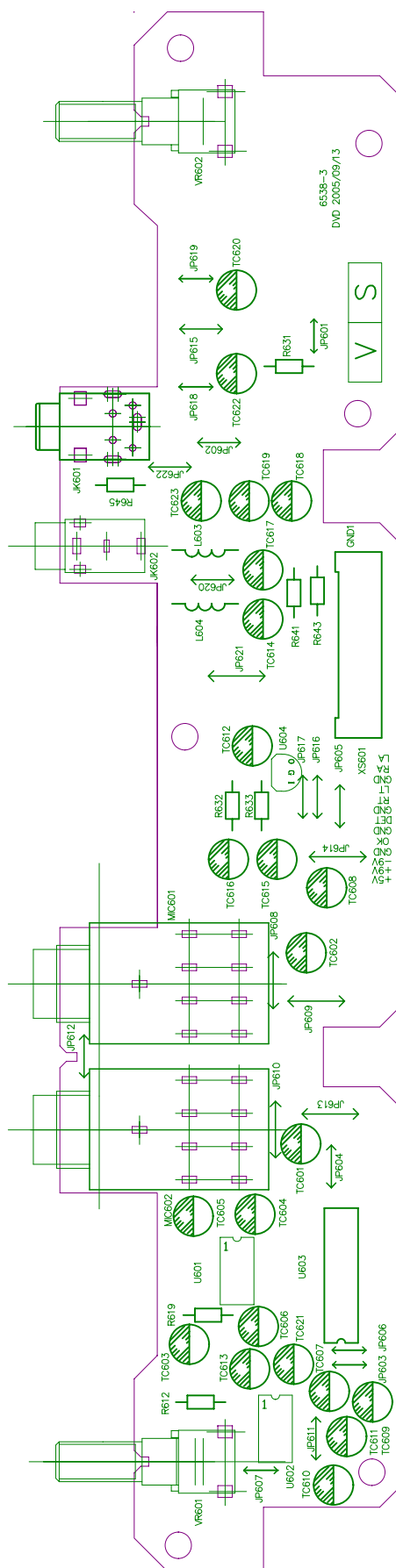
B538-0 PCB 05/05/2005

OK BOARD SCHEMATIC DIAGRAM



					ABS538T					BBK																			
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设计										第 1 张					共 1 张					版次：1.0									
审核																													
标准化																													
批准																													
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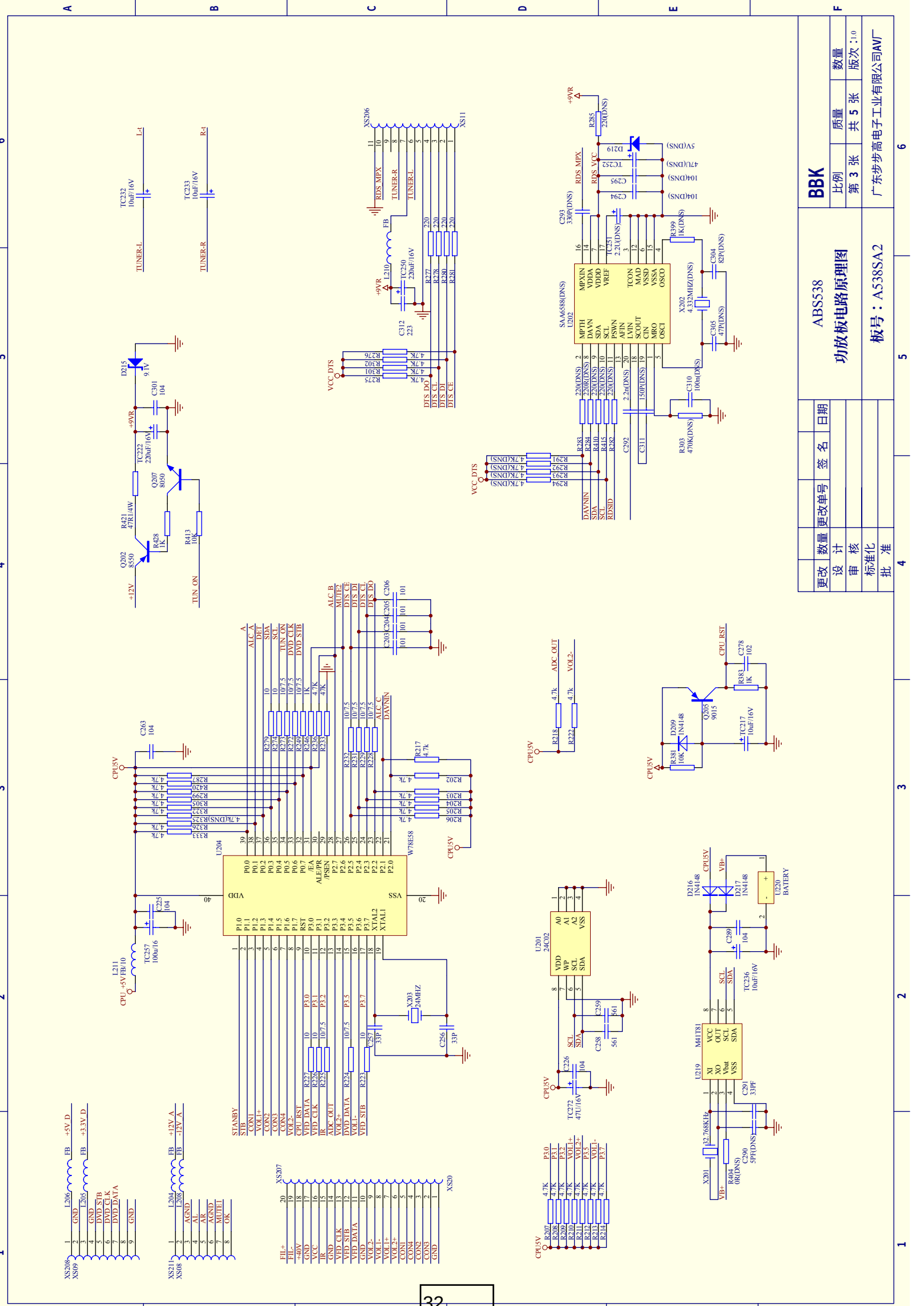
OK BOARD SCHEMATIC DIAGRAM



31



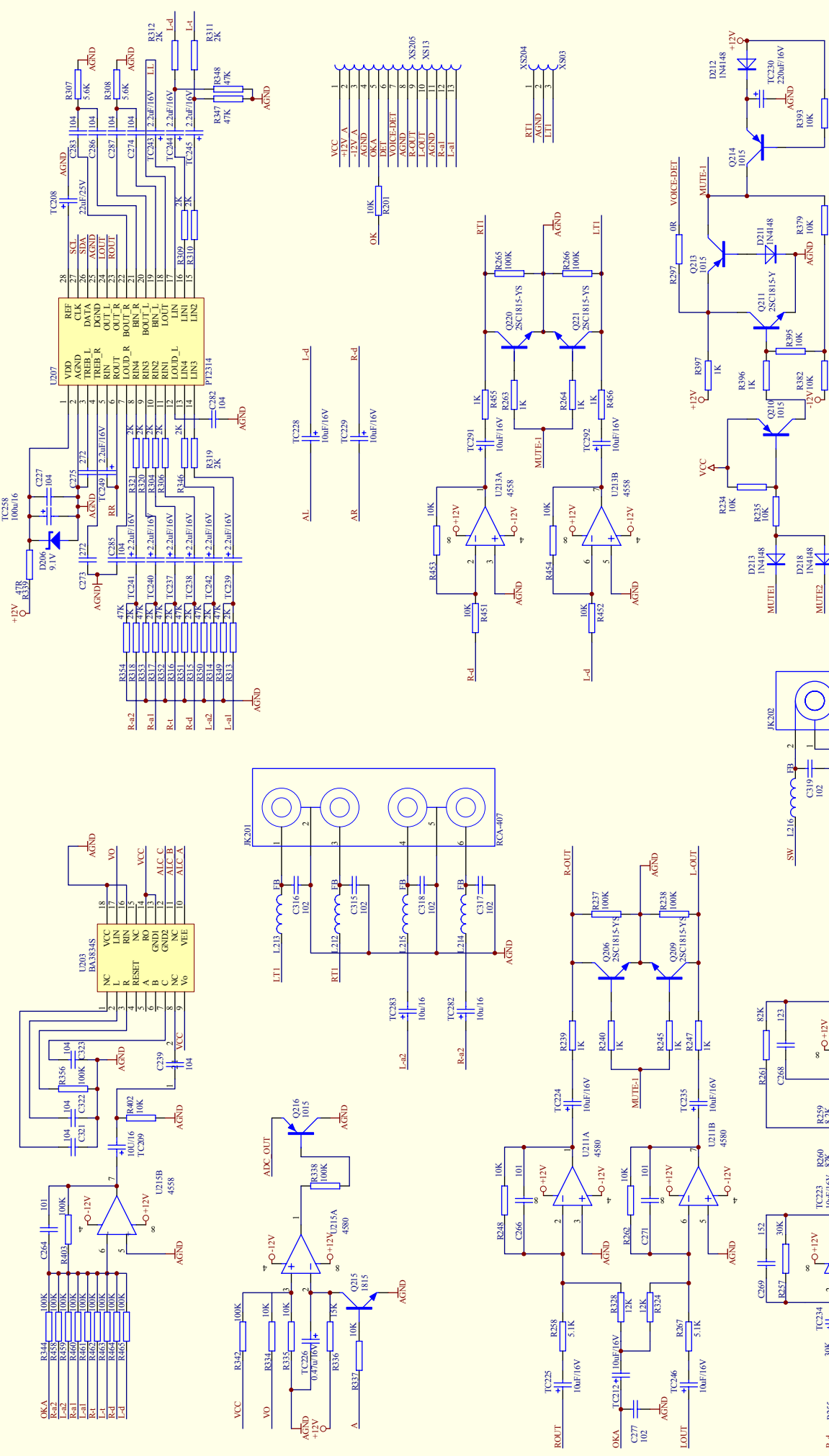
9



更改		数量	更改单号	签 名	日期
设计					
审核					
标准化					
批准					

ABS538			功放板电路原理图		
比例			第 3 张		
数量			共 5 张		
版本			版次 1.0		

板号：A538SA2			广东步步高电子工业有限公司AV厂		
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更改	数量	更改单号	签 名	日期
设计				
审核				
标准化				
批 准				

ABS538			功放板电路原理图		
BBK			比例 共 5 张 版次 1.0		
第 3 张			广东步步高电子工业有限公司AV厂		

板号：A538SA3

POWER AMPLIFIER BOARD OF SUBWOOFER



9. SPARE PARTS LIST

ABS730X MATERIAL LIST

1. MAIN PANEL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
5233877	SOFT SPONGE SPACER	46×20×4 DOUBLE-FACED HARD	PCS	2	2PCS FOR VFD SCREEN
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	1	R409
0000122	CARBON FILM RESISTOR	1/6W100 Ω ±5% SHAPED 7.5	PCS	5	R402~R406
0000488	CARBON FILM RESISTOR	1/6W220 Ω ±5% SHAPED 7.5	PCS	1	R401
0000133	CARBON FILM RESISTOR	1/6W4.7K±5% SHAPED 7.5	PCS	1	R408
139	CARBON FILM RESISTOR	1/6W20K±5% SHAPED 7.5	PCS	1	R407
0200035	PORCELAIN CAPACITOR	50V 47P ±5% NPO 5mm	PCS	15	C401~C404,C411~C420,C423
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	2	C421,C422
0200041	PORCELAIN CAPACITOR	50V 151 ±10% NPO 5mm	PCS	2	C409,C410
0310207	SMD CAPACITOR	50V 104 ±20% X7R 0603	PCS	5	C405~C408,C424
0310543	SMD CAPACITOR	50V 104 ±10% X7R 0603	PCS	5	C405~C408,C424
0260201	CD	CD11C 16V100U±20%6×7 2.5	PCS	2	TC401,TC403
0260240	CD	CD110 63V100U±20%10×12 5	PCS	1	TC402
0570006	DIODE	1N4148	PCS	5	VD401~VD405
0580001	VOLTAGE REGULATOR DIODE	3.3V ±5% 1/2W	PCS	1	ZD401
970003	CERAMIC RESONATOR	455E	PCS	1	X401
1340003	LIGHT TOUCH RESTORE SWITCH	HORIZONTAL 6×6×1	PCS	8	SW401~SW408
1200728	DISPLAY SCREEN	VFD48-1601FN	PCS	1	VFD401
0580073	VOLTAGE REGULATOR DIODE	5.1V ±5% 1/2W SHAPED 10mm	PCS	13	XS402,ZD402~ZD413
0881587	IC	PT2222A SOP	PCS	1	U401
882647	IC	PT6305 QFP	PCS	1	U402
1940286	CABLE SOCKET	10P 1.0mm STRAIGHT DUAL LINE PLUG CONTACT POINT	PCS	2	XS403,XS401
1563778	PCB	4538-0	PCS	1	
2100010	CONNECTION CORDS	Φ0.6 SHAPED 5mm	PCS	11	JP414,JP416,JP419,JP422~JP4 24,JP427~JP430, JP440
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	9	JP417,JP418,JP420,JP421,JP4 31,JP434~JP436, JP438
2100007	CONNECTION CORDS	Φ0.6 SHAPED 15mm	PCS	2	JP406,JP426
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	2	JP404,JP439
2100006	CONNECTION CORDS	Φ0.6 SHAPED 12.5mm	PCS	16	JP401~JP403,JP405,JP407~JP 413,JP415,JP425,JP432, JP433,JP437

2. POWER BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
0000713	CARBON FILM RESISTOR	1/2W2.2Ω±5%	PCS	2	R102,R103
0010118	METAL OXIDE FILM RESISTOR	1/2W0.47 Ω ±5% SHAPED X 10	PCS	2	R100,R101
0200227	PORCELAIN CAPACITOR	50V 104 ±10% 5mm	PCS	1	C100
0260717	CD	CD11T 63V1000U±20%16×30 7.5	PCS	1	TC100
3870057	FUSE HOLDER		PCS	8	FL100,FL101,FL102,FL103
570005	DIODE	1N4007	PCS	5	VD109,VD110,VD111,VD112,V D113
2100010	CONNECTION CORDS	Φ0.6 SHAPED 5mm	PCS	2	JP106,JP107
0570020	DIODE	1N5404	PCS	4	VD101,VD102,VD103,VD104
2300041	FUSE HOLDER	@T8AL 250V VDE	PCS	2	FL100,FL101
2300033	FUSE HOLDER	@T3.15AL 250V VDE	PCS	2	FL102,FL103
2300038	FUSE HOLDER	@T2.5AL 250V VDE	PCS	1	FL104
0670015	SILICON BRIDGE	KBU10J	PCS	1	VD100
1000051	POWER GRID FILTER	@JLB2085 2mH +∞-0% UL	PCS	1	T102
1940003	SOCKET	4P 2.5mm	PCS	1	XS104
1940074	SOCKET	2P 7.92mm	PCS	1	XS103
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	3	JP101,JP102,VD114
3580180	HEAT RADIATOR	40×30×18 ABS730X(RU)	PCS	1	VD100
4000577	SELF-TAPPING SCREW	BT 3×12 WHITE NICKEL	PCS	1	SILICON BRIDGE/HEAT RADIATOR
4490001	SPRING SHRAPNEL	Φ3	PCS	1	SILICON BRIDGE/HEAT RADIATOR
3020402	FUSE HOLDER	BLX-2	PCS	1	FL104
4450012	SCREW SPACER	Φ3×7.2×0.5	PCS	1	SILICON BRIDGE/HEAT RADIATOR
460552	SQUARE TRANSFORMER	@ABS730X CQC	PCS	1	T101

0070007	HIGH VOLTAGE RESISTOR	@1/2W680K±5% UL	PCS	1	R106
2121862	FLAT CABLE	8P300 2.0 2PLUG WITH NEEDLE THE SAME DIRECTION	PCS	1	XS105
0210204	ANTI-DISTURBANCE CAPACITOR	@MKP61 X2 275VAC 104M 15 UL	PCS	2	C102,C103
2121863	FLAT CABLE	10P320 2.5 2PLUG WITH NEEDLE THE SAME DIRECTION	PCS	1	XS101
0680045	SCHOTTKY DIODE	SR360 DO-27 SHAPED R 17.5×8	PCS	4	VD105,VD106,VD107,VD108
1563848	PCB	@D538-1 UL	PCS	1	

3. SUBSIDIARY POWER BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
10209	METAL FILM RESISTOR	1/6W2K±1%	PCS	1	R104
0010006	METAL FILM RESISTOR	1/6W1.2K±1%	PCS	1	R103
0010038	METAL FILM RESISTOR	1/6W1K±1%	PCS	1	R101
0010248	METAL FILM RESISTOR	1/6W3K±1%	PCS	1	R102
2003199	PORCELAIN CAPACITOR	50V 104 ±10% SHAPED 5mm Φ 8	PCS	6	C241,C242,C247,C248,C251,C253
0260597	CD	CD11 105℃ 16V1000U±20%10×20 5	PCS	2	TC101,TC102
0882674	IC	AZ1084T-ADJ TO-220	PCS	2	U208,U222
0880131	IC	L7812CV GOLD SEALED TO-220	PCS	1	U225
0880505	IC	L7912CV GOLD SEALED TO-220	PCS	1	U226
2121864	FLAT CABLE	13P240 2.0 2PLUG WITH NEEDLE THE SAME DIRECTION	PCS	1	XS201
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	2	JP904,JP907
0260715	CD	CD11T 25V10U±10%5×11 C5	PCS	1	TC103
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	2	JP908,JP909
2100006	CONNECTION CORDS	Φ0.6 SHAPED 12.5mm	PCS	1	JP906
1563972	PCB	C538-1	PCS	1	

4. SUBSIDIARY PANEL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
5233878	SOFT SPONGE SPACER	7×7×7 DOUBLE-FACED HARD	PCS	1	IPC FOR REMOTE IR SENSOR
0000175	CARBON FILM RESISTOR	1/4W100Ω±5%	PCS	1	RB16
0000190	CARBON FILM RESISTOR	1/4W560Ω±5%	PCS	18	RB17,RB18 ,RB01~RB15,RB19
0580073	VOLTAGE REGULATOR DIODE	5.1V ±5% 1/2W SHAPED 10mm	PCS	1	ZDB01
0580009	VOLTAGE REGULATOR DIODE	9.1V ±5% 1/2W	PCS	1	ZDB02
0200035	PORCELAIN CAPACITOR	50V 47P ±5% NPO 5mm	PCS	6	CB03~CB08
0200318	PORCELAIN CAPACITOR	50V 104 ±20% SHAPED 5mm	PCS	2	CB01,CB02
0260201	CD	CD11C 16V100U±20%6×7 2.5	PCS	2	TCB01,TCB02
780030	TRIODE	8550C(120-200) TO-92	PCS	2	VB01,VB02
1340003	LIGHT TOUCH RESTORE SWITCH	HORIZONTAL 6×6×1	PCS	23	SWB01~SWB23
0620076	LIGHT RADIATION DIODE	3B3HC COLORLESS WITH BLUE	PCS	14	LEDB02~LEDB15
0620054	DUAL-COLOR LIGHT RADIATION DIODE	3RB9HW-A COMMON CATHODE RED/BLUE	PCS	1	LEDB01
2360019	RECEIVING HEAD	AT138B	PCS	1	UB01
0160208	DIGITAL POTENTIOMETER	EC1120-2-20-F15	PCS	1	RVB02
0160207	DIGITAL POTENTIOMETER	EC1120-2-20-F20	PCS	1	RVB01
1940286	CABLE SOCKET	10P 1.0mm STRAIGHT DUAL LINE PLUG CONTACT POINT	PCS	1	XS401
1563780	PCB	B538-0	PCS	1	
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	14	JB01~JB14

5. OK BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	2	R639,R640
0000118	CARBON FILM RESISTOR	1/6W10 Ω ±5% SHAPED 7.5	PCS	2	R632,R633
0090012	SMD RESISTOR	1/16W 560Ω ±5% 0603	PCS	2	R603,R604
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	4	R607,R608,R611,R626
2110203	LEAD	20# 100mm BLACK WITH WELDING PIECE HOLE Φ4.2	PCS	1	
0000022	CARBON FILM RESISTOR	1/6W1K±5%	PCS	1	R619
0700004	SMD VOLTAGE REGULATOR DIODE	5.1V ±5% 1/2W	PCS	2	ZD602,ZD604
0000030	CARBON FILM RESISTOR	1/6W3.3K±5%	PCS	1	R631
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	1	C632

0090224	SMD RESISTOR	1/16W 3.9K ±5% 0603	PCS	5	R627,R630,R634-R636
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	2	R628,R622
0090225	SMD RESISTOR	1/16W 5.6K ±5% 0603	PCS	1	R616
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	8	R605,R606,R617,R620,R621,R624,R637,R638
0000040	SMD RESISTOR	1/6W10K±5%	PCS	1	R612
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	2	R614,R618
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R615
0000045	SMD RESISTOR	1/6W20K±5%	PCS	2	R641,R643
0090026	SMD RESISTOR	1/16W 22K ±5% 0603	PCS	2	R601,R602
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	1	R629
0090189	SMD RESISTOR	1/16W 30K ±5% 0603	PCS	5	R609,R610,R613,R642,R644
310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	4	C605-C607,C620
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	3	C617-C619
0310072	SMD CAPACITOR	50V 103 ±10% X7R 0603	PCS	3	C603,C604,C616
0310207	SMD CAPACITOR	50V 104 ±20% X7R 0603	PCS	14	C601,C602,C609,C611,C613,C614,C622,C623,C625-C630
0310323	SMD CAPACITOR	50V 392 ±10% X7R 0603	PCS	2	C608,C615
0310197	SMD CAPACITOR	50V 561 ±10% X7R 0603	PCS	2	C610,C612
1563974	PCB	6538-3	PCS	1	
0260241	CD	CD11C 16V4.7U±20%4×7 1.5	PCS	9	TC601-TC604,TC607,TC610,T611,TC613,TC621
0000133	CARBON FILM RESISTOR	1/6W4.7K±5% SHAPED 7.5	PCS	1	R645
0260199	CD	CD11C 16V22U±20%4×7 1.5	PCS	2	TC605,TC606
260200	CD	CD11C 16V47U±20%5×7 2	PCS	6	TC609,TC614,TC617-TC619,TC612
0260103	CD	CD11C 25V100U±20%8×9 3.5	PCS	5	TC608,TC615,TC616,TC620,T622
0390057	MAGNETIC BEADS INDUCTOR	RH354708	PCS	2	L603,L604
0390055	SMD MAGNETIC BEADS	FCM2012K-601B	PCS	2	L601,L602
0881743	IC	F4558 DIP	PCS	2	U601,U602
2150262	FLAT CABLE	13P200 2.0 T2 2×2P SCREEN-SHIELDED WITH NEEDLE THE SAME DIRECTION	PCS	1	XS601
1980006	MIC SOCKET	CK3-6.35-106	PCS	2	MIC601,MIC602
1980046	HEADPHONE SOCKET	ST-301-030-100	PCS	1	JK602
0160206	ROTATED POTENTIOMETER	RK093NHA03-F25B12-B10K	PCS	1	VR601
1980048	MIC SOCKET	ST-403-070-100	PCS	1	JK601
0160209	ROTATED POTENTIOMETER	RK093NHA03-F25B12-B50K	PCS	1	VR602
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	10	JP602,JP604,JP605,JP611,JP612,JP615-JP617,JP620,JP622
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	6	JP608-JP610,JP613,JP614,JP621
2100010	CONNECTION CORDS	Φ0.6 SHAPED 5mm	PCS	6	JP601,JP603,JP606,JP607,JP618,JP619
0880230	IC	PT2399 DIP	PCS	1	U603
882115	IC	PJ78L05CT TO-92	PCS	1	U604
0881537	IC	TDA1308 SOP	PCS	1	U605

6. POWER AMPLIFIER BOARD OF SUBWOOFER

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
10313	METAL OXIDE FILM RESISTOR	2W 4.7 Ω±5% SHAPED 15	PCS	2	R367,R368
0010210	METAL OXIDE FILM RESISTOR	3W47 Ω±5% SHAPED R 20×8	PCS	1	R230
0260621	CD	CD11T 63V220U±20%10×20 5	PCS	1	TC254
0260479	CD	CD11 105℃ 25V4700U±20%16×30 7.5	PCS	1	TC207
1910198	TERMINAL SOCKET	AV4-8.4-13/PB-26	PCS	1	JK201
260718	CD	CD11T 25V2200U±20%13×26 5	PCS	1	TC284
1910081	TERMINAL SOCKET	AV1-8.4-5G-2 YELLOW	PCS	1	JK202
0260721	CD	CD11T 16V5600U±20%16×30 7.5	PCS	2	TC268,TC269
0260720	CD	CD11T 50V10000U±20% 35×40 10	PCS	2	TC277,TC278
0960139	CRYSTAL OSCILLATOR	24.00MHZ 49-S	PCS	1	X203
3630185	BATTERY HOLDER	1403G6-GBK4B	PCS	1	U220
0881743	IC	F4558 DIP	PCS	3	U211,U212,U215
2110541	LEAD	18# 155mm BLACK DUAL LAYER INSULATION	PCS	1	
0960017	CRYSTAL OSCILLATOR	32.768KHz 3×9	PCS	1	X201
1940001	SOCKET	2P 2.5mm	PCS	1	XS202

2150248	FLAT CABLE	3P220 2.0 2PLUG 2P SCREEN-SHIELDED WITH NEEDLE THE SAME DIRECTION	PCS	1	XS204
2110336	LEAD	20# 150mm BLACK WITH WELDING PIECE	PCS	1	接地引线
1940065	SOCKET	13P 2.0mm	PCS	2	XS201,XS205
1940072	CABLE SOCKET	6/5P 1.25mm STRAIGHT DUAL LINE PLUG	PCS	1	XS206
1940008	SOCKET	8P 2.0mm	PCS	2	XS211,XS212
1940044	SOCKET	9P 2.0mm	PCS	1	XS208
1940030	SOCKET	10P 2.5mm	PCS	1	XS209
1940286	CABLE SOCKET	10P 1.0mm STRAIGHT DUAL LINE PLUG CONTACT POINT	PCS	1	XS207
1990036	EXTERNAL CONNECTION CORD SOCKET	WP4-5	PCS	1	JK203
1850005	DUAL LINE IC SOCKET	40P DIP	PCS	1	U204
5446825	PCB SEMI-FINISHED PRODUCT	A538-0 ABS730X(RU) AI	PCS	1	

7. AV BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	1	R713
0090002	SMD RESISTOR	1/16W 2.2 Ω ±5% 0603	PCS	1	R706
310085	SMD CAPACITOR	50V 20P ±5% NPO 0603	PCS	6	C704,C705,C710,C711,C712,C713
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	2	C708,C709
0310222	SMD CAPACITOR	25V 104 ±20% X7R 0603	PCS	3	C702,C703,C707
0310643	SMD CAPACITOR	16V 105 ±20% Y5V 0603	PCS	2	C701,C706
0000481	CARBON FILM RESISTOR	1/6W33 Ω ±5% SHAPED 7.5	PCS	1	R708
0090238	SMD RESISTOR	1/16W 68Ω ±5% 0603	PCS	1	R703
0000008	CARBON FILM RESISTOR	1/6W75Ω ±5%	PCS	1	R705
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	1	R702
0000181	CARBON FILM RESISTOR	1/4W220Ω ±5%	PCS	1	R701
0000013	CARBON FILM RESISTOR	1/6W330Ω ±5%	PCS	1	R709
129	CARBON FILM RESISTOR	1/6W1K ±5% SHAPED 7.5	PCS	1	R711
0090017	SMD RESISTOR	1/16W 2.2K ±5% 0603	PCS	2	R712,R710
0000034	CARBON FILM RESISTOR	1/6W4.7K ±5%	PCS	1	R704
0390057	MAGNETIC BEADS INDUCTOR	RH354708	PCS	8	L701~L704,L707~L710
1090045	ELECTRO-OPTIC TRANSFORMER	TX179ATW	PCS	1	JK703
1090024	ELECTRO-OPTIC TRANSFORMER	TX179AT	PCS	1	JK703
1910094	TERMINAL SOCKET	AV4-8.4-6G-5	PCS	1	JK701
1910129	TERMINAL SOCKET	SA-001-012 BLACK IRON PIECE SCREEN-SHIELDED	PCS	1	JK702
1860029	SCART SOCKET	SCART-01	PCS	1	JK704
1940026	SOCKET	3P 2.0mm	PCS	1	XS701
1940285	CABLE SOCKET	8P 1.0mm STRAIGHT DUAL LINE PLUG CONTACT POINT	PCS	1	XS702
0780050	TRIODE	S8050D	PCS	3	V701~V703
2100010	CONNECTION CORDS	Φ0.6 SHAPED 5mm	PCS	1	JP702
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	6	JP701,JP703,JP707~JP709,R707
2100004	CONNECTION CORDS	Φ0.6 SHAPED 10mm	PCS	3	JP704~JP706
1563777	PCB	7538-0	PCS	1	

8. DECODE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	4	R344,R349,R351,R305
0090272	SMD RESISTOR	1/16W1Ω ±5% 0603	PCS	4	R249,R251,R257,R258
0090004	SMD RESISTOR	1/16W 22Ω ±5% 0603	PCS	5	R217,R219,R301,R302,R321
0090005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	12	R215,R260,R261,R303,R329,R352~R356,R372,R256
0090237	SMD RESISTOR	1/16W 39Ω ±5% 0603	PCS	1	R331
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	5	R332~R336
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	4	R259,R263,R269,R322
0700004	SMD VOLTAGE REGULATOR DIODE	5.1V ±5% 1/2W	PCS	8	ZD218~ZD221,ZD224~ZD227
0090007	SMD RESISTOR	1/16W 180Ω ±5% 0603	PCS	1	R343
0090008	SMD RESISTOR	1/16W 220Ω ±5% 0603	PCS	1	R330
0090009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	4	R201~R203,R275

90011	SMD RESISTOR	1/16W 470Ω ±5% 0603	PCS	2	R233,R234
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	11	R271,R272,R273,R274,R287,R290,R2117,R2120,R292,R254,R316
0090016	SMD RESISTOR	1/16W 1.5K ±5% 0603	PCS	4	R228,R230,R231,R239
0090223	SMD RESISTOR	1/16W 2K ±5% 0603	PCS	3	R211,R212,R315
0090017	SMD RESISTOR	1/16W 2.2K ±5% 0603	PCS	3	R242,R244,R246
90019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	21	R360~R362,R373~R376,R229,R240,R289,R293,R294,R314,R319,R320,R2130,R2131,R2134,R2135,R339,R340
0090020	SMD RESISTOR	1/16W 5.1K ±5% 0603	PCS	2	R218,R250
0090021	SMD RESISTOR	1/16W 6.8K ±5% 0603	PCS	2	R279,R276
0090022	SMD RESISTOR	1/16W 8.2K ±5% 0603	PCS	2	R247,R248
0090254	SMD RESISTOR	1/16W 9.1K ±5% 0603	PCS	1	R209
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	22	R205~R208,R222,R223,R226,R235,R237,R268,R270,R288,R323~R328,R342,R345,R346,R253
0090187	SMD RESISTOR	1/16W 12K ±5% 0603	PCS	2	R216,R220
0090186	SMD RESISTOR	1/16W 7.5K ±5% 0603	PCS	2	R2136,R2148
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	2	R210,R252
0090026	SMD RESISTOR	1/16W 22K ±5% 0603	PCS	2	R232,R241
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	1	R318
0090028	SMD RESISTOR	1/16W 33K ±5% 0603	PCS	3	R213,R214,R317
0090190	SMD RESISTOR	1/16W 36K ±5% 0603	PCS	2	R2129,R2133
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	1	R291
0090029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	2	R243,R245
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	6	R221,R224,R262,R341,R2111,R2112
0090109	SMD RESISTOR	1/16W 1MΩ ±5% 0603	PCS	3	R227,R238,R313
0100019	SMD RESISTOR NETWORKS	1/16W33Ω ±5% 8P	PCS	13	RN201~RN205,RN207,RN208,RN211~RN215,RN218
90623	SMD RESISTOR NETWORKS	1/16W75Ω±5% 0603×4 8P	PCS	3	RN206,RN216,RN217
0100031	SMD RESISTOR NETWORKS	1/16W 4.7K±5% 0603 8P	PCS	3	RN209,RN219,RN220
0090609	PRECISION SMD RESISTOR	1/16W 100Ω ±1% 0603	PCS	1	R338
0090626	PRECISION SMD RESISTOR	1/16W 200Ω±1% 0603	PCS	1	R337
0003759	CARBON FILM RESISTOR	1/4W2.2 Ω ±5%	PCS	1	R236
2604379	CD	CD11 16V10U±20%5×11C5	PCS	17	TC206,TC207,TC209,TC210,TC212,TC213,TC214,TC225,TC226,TC232,TC233,TC236,TC240,TC241,TC247,TC251,TC266
2600029	CD	CD11 16V47U±20%5×11 C5	PCS	7	TC211,TC219,TC220,TC246,TC249,TC252,TC267
2601889	CD	CD11 16V100U±20%6×12 C5	PCS	7	TC215,TC218,TC255,TC201~TC203,TC216
2601819	CD	CD11 16V220U±20%6×12 C5	PCS	9	TC245,TC258,TC259,TC261~TC263,TC256,TC257,TC265
0310186	SMD CAPACITOR	50V 7P ±0.5P NPO 0603	PCS	3	C224,C259,C260
0310042	SMD CAPACITOR	50V 15P ±5% NPO 0603	PCS	2	C242,C243
0310043	SMD CAPACITOR	50V 22P ±5% NPO 0603	PCS	11	C286~C291,C321,C324,C327,C330,C384
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	9	C218,C388,C389,C393,C394,C397~C400
0310192	SMD CAPACITOR	50V 56P ±5% NPO 0603	PCS	3	C385,C2111,C2114
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	6	C336,C337,C370,C371,C372,C386
0310326	SMD CAPACITOR	50V 121 ±5% NPO 0603	PCS	1	C217
0310656	SMD CAPACITOR	50V 201 ±5% NPO 0603	PCS	1	C231
0310061	SMD CAPACITOR	50V 271 ±10% X7R 0603	PCS	4	C320,C323,C326,C329
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	4	C322,C325,C328,C331
0310053	SMD CAPACITOR	50V 471 ±5% NPO 0603	PCS	2	C333,C334
0310198	SMD CAPACITOR	50V 472 ±10% X7R 0603	PCS	1	C392
0310054	SMD CAPACITOR	50V 681 ±5% NPO 0603	PCS	1	C339

0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	26	C202~C204,C210,C228,C262,C265~C268,C273,C277,C281,C282,C284,C293,C295,C297,C299,C302,C349~C351,C359~C361
0310231	SMD CAPACITOR	50V 122 ±10% X7R 0603	PCS	4	C2122,C2129,C2112,C2115
310070	SMD CAPACITOR	50V 332 ±10% X7R 0603	PCS	4	C213,C214,C234,C303
0310323	SMD CAPACITOR	50V 392 ±10% X7R 0603	PCS	1	C227
0310200	SMD CAPACITOR	50V 822 ±10% X7R 0603	PCS	2	C314,C315
0310072	SMD CAPACITOR	50V 103 ±10% X7R 0603	PCS	28	C212,C269~C272,C274~C276,C278~C280,C283,C304,C342,C343,C352~C358,C362~C367
0310203	SMD CAPACITOR	50V 273 ±10% X7R 0603	PCS	1	C216
310056	SMD CAPACITOR	16V 473 ±10% X7R 0603	PCS	1	C206
0310207	SMD CAPACITOR	50V 104 ±20% X7R 0603	PCS	80	C201,C205,C207~C209,C211,C215,C219~C223,C225,C226,C233,C235~C241,C244,C245,C247~C255,C257,C258,C261,C264,C292,C294,C296,C298,C301,C305~C313,C316~C318,C332,C335,C338,C340,C341,C345,C346,C368,C373~C382,C387,C391,C2138,C2141,C2155,C2156,C2157,C348
0310543	SMD CAPACITOR	50V 104 ±10% X7R 0603	PCS	80	C201,C205,C207~C209,C211,C215,C219~C223,C225,C226,C233,C235~C241,C244,C245,C247~C255,C257,C258,C261,C264,C292,C294,C296,C298,C301,C305~C313,C316~C318,C332,C335,C338,C340,C341,C345,C346,C368,C373~C382,C387,C391,C2138,C2141,C2155,C2156,C2157,C348
0310222	SMD CAPACITOR	25V 104 ±20% X7R 0603	PCS	80	C201,C205,C207~C209,C211,C215,C219~C223,C225,C226,C233,C235~C241,C244,C245,C247~C255,C257,C258,C261,C264,C292,C294,C296,C298,C301,C305~C313,C316~C318,C332,C335,C338,C340,C341,C345,C346,C368,C373~C382,C387,C391,C2138,C2141,C2155,C2156,C2157,C348
0310234	SMD CAPACITOR	16V 105 +80%-20% Y5V 0603	PCS	4	C229,C230,TC205,TC250
0390096	SMD INDUCTOR	1.8UH ±10% 1608	PCS	4	L211~L214
0390355	SMD INDUCTOR	4.7UH ±10% 1608	PCS	2	L207, L208
0390095	SMD MAGNETIC BEADS	FCM1608K-221T05	PCS	12	L203,L227,L215~L218,L221~L224,L228,L230
3900579	MAGNETIC BEADS INDUCTOR	RH354708	PCS	7	L201,L202,L204~L206,L220,L226
0700007	SMD DIODE	1N4148	PCS	3	D201,D202,D216
0700001	SMD DIODE	LS4148	PCS	3	D201,D202,D216
0700002	SMD DIODE	LL4148	PCS	3	D201,D202,D216
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	4	D203~D205,D210
0700008	SMD VOLTAGE REGULATOR DIODE	5.6V ±5% 1/2W	PCS	1	D215
7800509	TRIODE	S8050D	PCS	2	Q215,Q216
7800499	TRIODE	S8550D	PCS	2	Q213,Q214
780276	SMD TRIODE	GS9013 SOT-23	PCS	3	Q224,Q233,Q234
780062	SMD TRIODE	9014C	PCS	3	Q217,Q220,Q229
780063	SMD TRIODE	9015C	PCS	1	Q204
780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	1	Q225
780085	SMD TRIODE	8050D	PCS	1	Q223
780040	SMD TRIODE	3904(100-300) SOT-23	PCS	1	Q231
780193	SMD TRIODE	2SK3018	PCS	2	Q203,Q230
780115	SMD TRIODE	2SB1132	PCS	2	Q201,Q202
881604	IC	AT24C16 SOP	PCS	1	U223
882022	IC	CS4340A SOP	PCS	2	U207,U213

882262	IC	K4S641632H-TC60 TSOP	PCS	2	U205,U208
881674	IC	LM393D SO8	PCS	1	U222
882105	IC	LM393 SO8	PCS	1	U222
882359	IC	AAI393 SO8	PCS	1	U222
880300	IC	M11B416256A-25 SOJ	PCS	1	U215
882502	IC	MK-6000B(4504) PQFP	PCS	1	U209
881742	IC	F4558 SOP	PCS	1	U219
880562	IC	4580 SOP	PCS	1	U219
880361	IC	4558 SOP	PCS	1	U219
880322	IC	MM74HCU04M SOP	PCS	1	U214
880513	IC	HCU04 SOP	PCS	1	U214
881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U224
881969	IC	IP1117-ADJ SOT-223	PCS	1	U224
0882461	IC	AZ1117H-ADJ SOT-223	PCS	1	U224
0882500	IC	AML3298 QFP	PCS	1	U202
0881378	IC	BA5954FP HSOP	PCS	1	U203
0882504	IC	R27V3202F TSOP	PCS	1	U212
0882503	IC	SAM2133B TQFP	PCS	1	U211
0882501	IC	VT7208 LQFP	PCS	1	U201
0960271	CRYSTAL OSCILLATOR	9.6MHz±20PPM 49-S 20P	PCS	1	X201
0960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	X203
0960022	CRYSTAL OSCILLATOR	33.8688MHz 49-S	PCS	1	X202
1940285	CABLE SOCKET	8P 1.0mm STRAIGHT DUAL LINE PLUG	PCS	1	XS207
1940044	SOCKET	9P 2.0mm	PCS	1	XS202
1940008	SOCKET	8P 2.0mm	PCS	1	XS209
1940094	CABLE SOCKET	24P 0.5mm SMD WITH CLASP	PCS	1	XS203
1940024	SOCKET	5P 2.0mm	PCS	1	XS206
1940005	SOCKET	6P 2.0mm	PCS	1	XS205
1632406	PCB	2538-1	PCS	1	