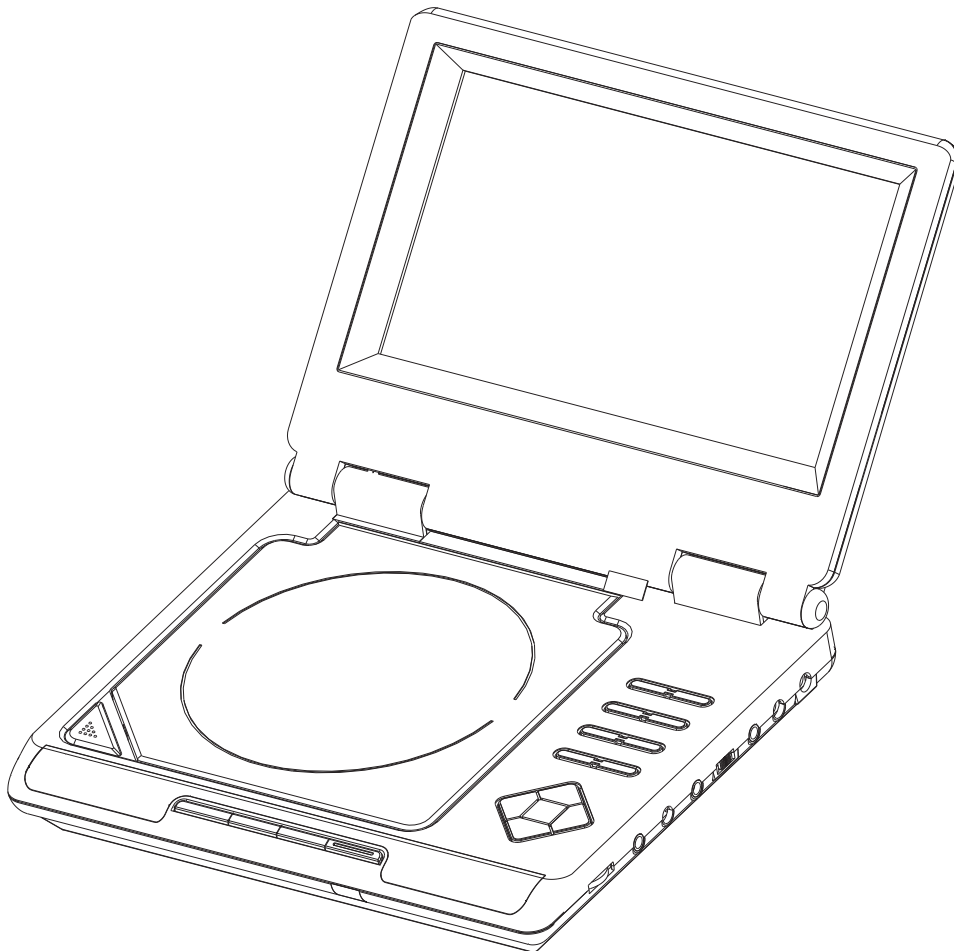


SERVICE MANUAL

DL372D



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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.

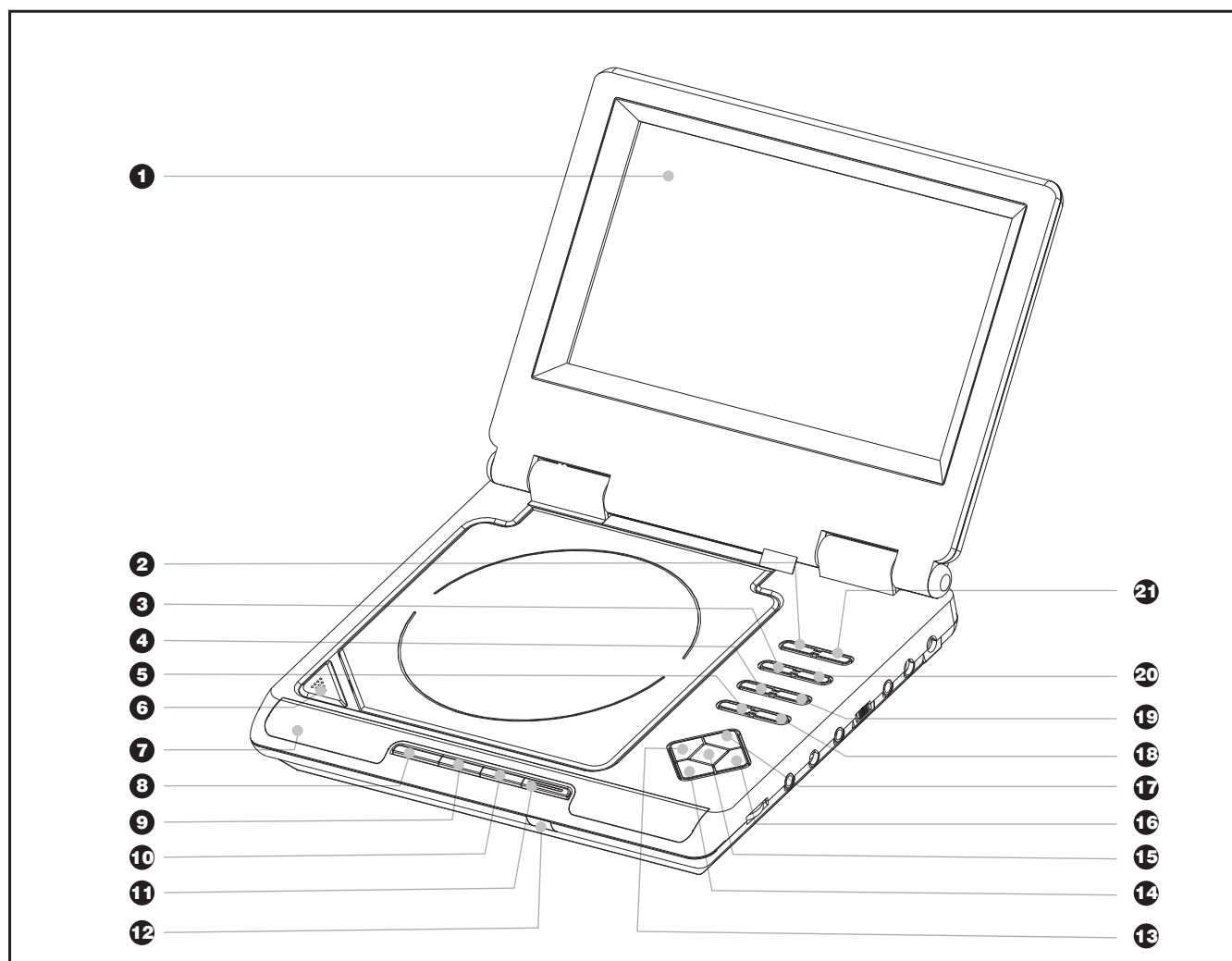
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity(ESD).

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



1 Color TFT LCD

2 REW Button

3 P/N button

4 Keyboard Button

5 SETUP Button

6 OPEN/CLOSE button

7 Speakers

8 PLAY button / PAUSE button

9 PREV Button

10 NEXT Button

11 Power indicator

12 IR sensor

13 LEFT direction arrow

14 DOWN direction arrow

15 SELECT button

16 RIGHT direction arrow

17 UP direction arrow

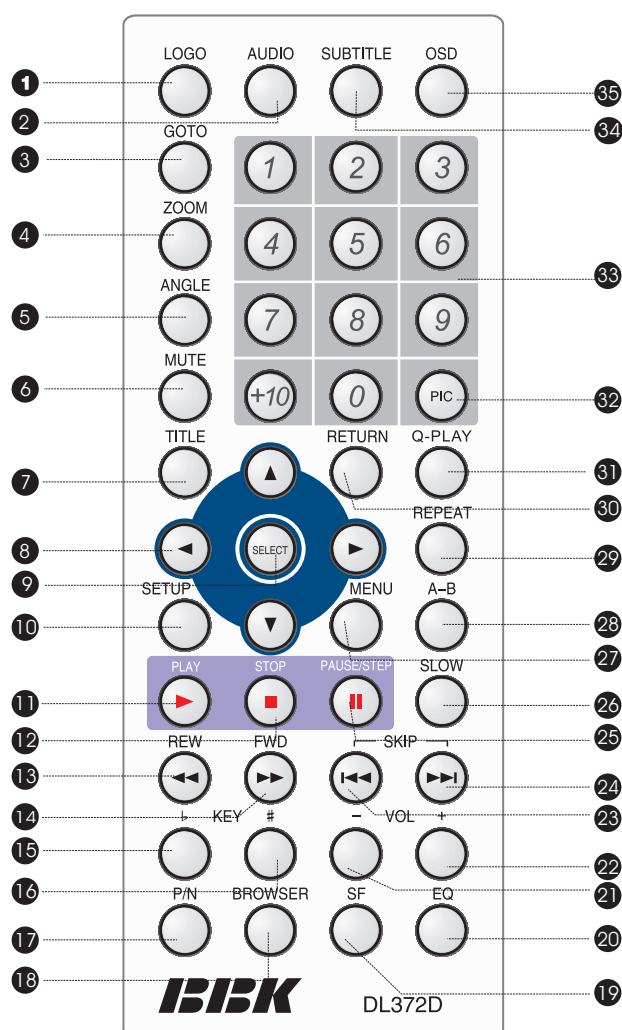
18 MENU Button

19 PICTURE button

20 STOP button

21 Forward Button

Remote Control Illustration



- 27 MENU Button**
Display DVD menu or open/close PBC.
- 28 A-B Button**
Repeat the select.
- 29 REPEAT Button**
Repeat play.
- 30 RETURN Button**
Back to the previous menu/Clearing input numbers.
- 31 Q-PLAY Button**
Skip the advertisement/warning and play DVD directly.
- 32 PIC Button**
Set video.
- 33 NUMBER Buttons**
- 34 SUBTITLE Button**
Change subtitle languages/
Switch JPEG display modes.
- 35 OSD Button**
Display or hide disc information.

- 1 LOGO Button**
Set the played image as the power-on logo.
- 2 AUDIO Button**
Change the audio language or audio channel.
- 3 GOTO button**
Play from the desired location.
- 4 ZOOM Button**
Zoom in /out the displayed frame.
- 5 ANGLE Button**
Change camera angles, MP3/JPEG playback modes switch.
- 6 MUTE button**
Press once to mute, twice to unmute.
- 7 TITLE button**
DVD titles.
- 8 CURSOR Buttons**
- 9 SELECT Button**
- 10 SETUP Button**
Function setup.
- 11 PLAY Button**
Normal playback.
- 12 STOP Button**
Stop playback.
- 13 REW Button**
Fast backward play.
- 14 FWD Button**
Fast forward play.
- 15 KEY⏮ Button**
Fall tone.
- 16 KEY⏭ Button**
Rise tone.
- 17 P/N Button**
Switch the TV system between PAL, NTSC and AUTO.
- 18 BROWSER**
Switch new user interface.
- 19 SF Button**
Adjusting sound field effects.
- 20 EQ Button**
Adjusting equalization effects.
- 21 VOLUME-**
Decrease volume.
- 22 VOLUME+**
Increase volume.
- 23 PREV Button**
Skip backward.
- 24 NEXT Button**
Skip forward.
- 25 PAUSE/STEP Button**
Pause or play frame by frame.
- 26 SLOW Button**
Slow play.

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

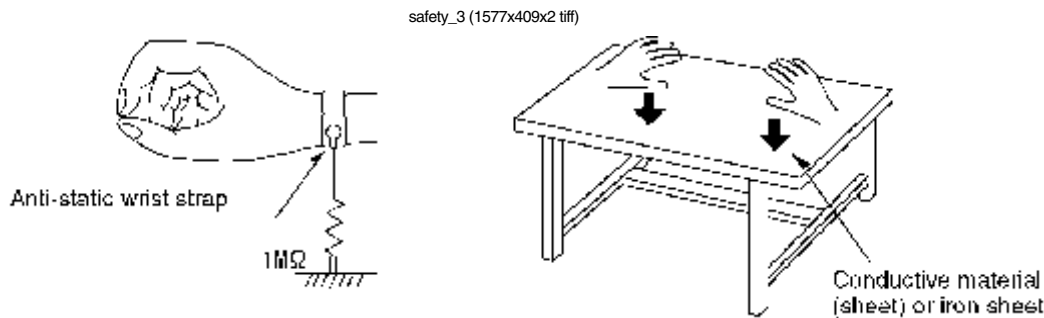
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

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.Electrical Confirmation

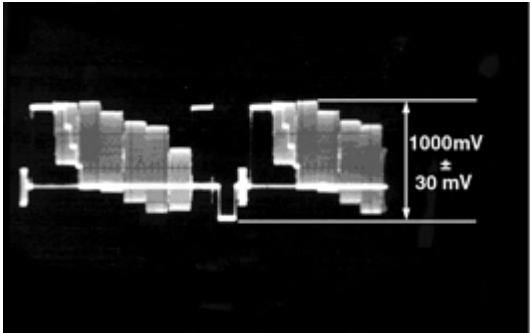
5.1. Video Output (Luminance Signal) Confirmation

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



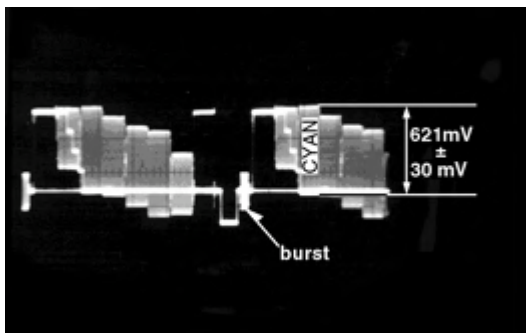
5.2 Video Output(Chrominance Signal) Confirmation

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	

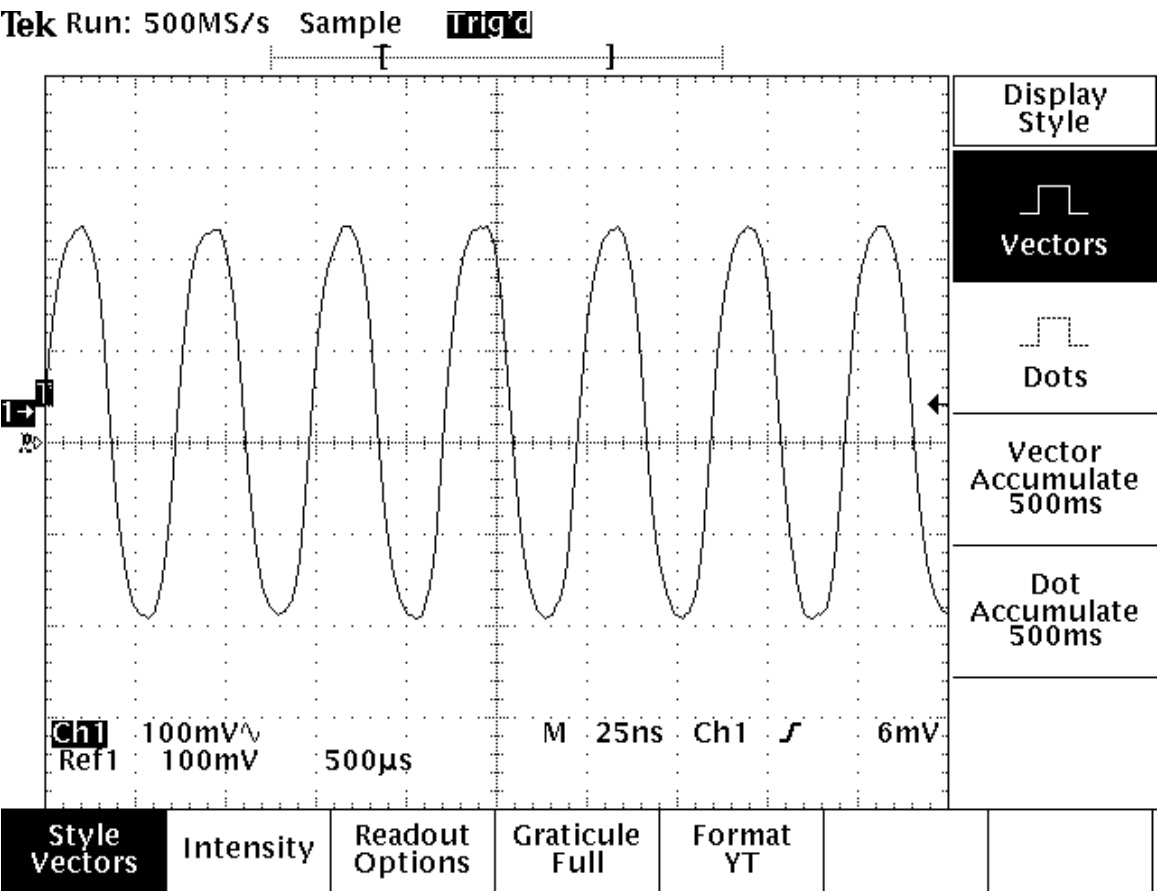
Purpose:To maintain video signal output compatibility.

- 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



6.MPEG BOARD CHECK WAVEFORM

6.1 27MHz WAVEFORM



7.2 MT1389

MT1389

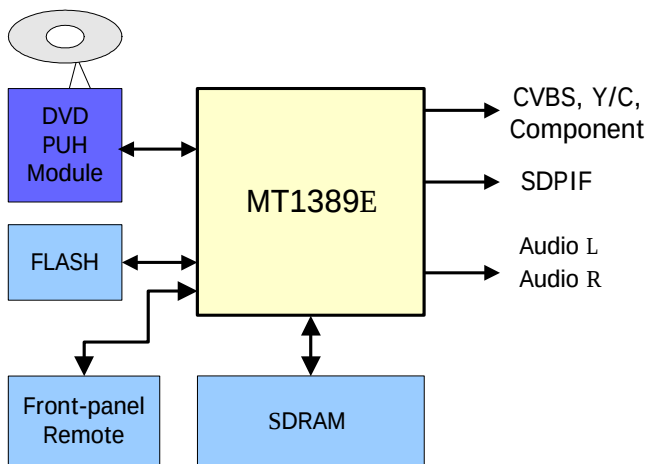
Progressive-Scan DVD Player SOC

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

IC BLOCK DIAGRAM & DESCRIPTION

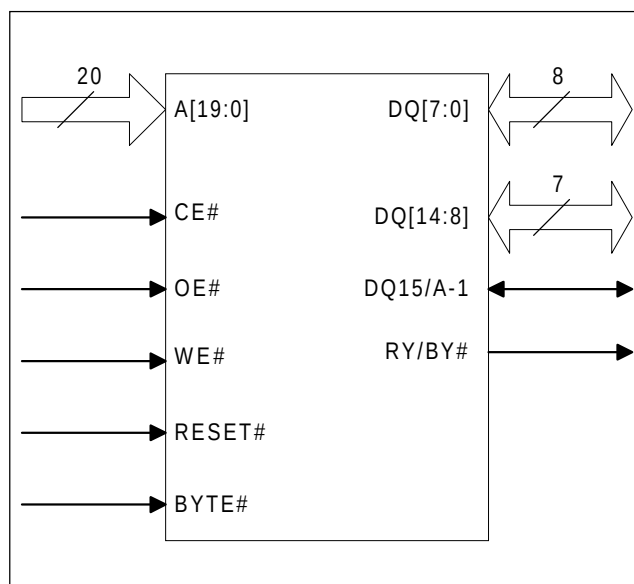


HY29LV160
16 Mbit (2M x 8/1M x 16) Low Voltage Flash Memory

KEY FEATURES

- **Single Power Supply Operation**
 - Read, program and erase operations from 2.7 to 3.6 volts
 - Ideal for battery-powered applications
- **High Performance**
 - 70, 80, 90 and 120 ns access time versions
- **Ultra-low Power Consumption (Typical Values At 5 Mhz)**
 - Automatic sleep mode current: 1 μ A
 - Standby mode current: 1 μ A
 - Read current: 9 mA
 - Program/erase current: 20 mA
- **Flexible Sector Architecture:**
 - One 16 KB, two 8 KB, one 32 KB and thirty-one 64 KB sectors in byte mode
 - One 8 KW, two 4 KW, one 16 KW and thirty-one 32 KW sectors in word mode
 - Top or bottom boot block configurations available
- **Sector Protection**
 - Allows locking of a sector or sectors to prevent program or erase operations within that sector
 - Sectors lockable in-system or via programming equipment
 - Temporary Sector Unprotect allows changes in locked sectors (requires high voltage on RESET# pin)
- **Fast Program and Erase Times**
 - Sector erase time: 0.25 sec typical for each sector
 - Chip erase time: 8 sec typical
 - Byte program time: 9 μ s typical
- **Unlock Bypass Program Command**
 - Reduces programming time when issuing multiple program command sequences
- **Automatic Erase Algorithm Preprograms and Erases Any Combination of Sectors or the Entire Chip**
- **Erase Suspend/Erase Resume**
 - Suspends an erase operation to allow reading data from, or programming data to, a sector that is not being erased
 - Erase Resume can then be invoked to complete suspended erasure
- **Automatic Program Algorithm Writes and Verifies Data at Specified Addresses**
- **100,000 Write Cycles per Sector Minimum**
- **Data# Polling and Toggle Bits**
 - Provide software confirmation of completion of program and erase operations
- **Ready/Busy# Pin**
 - Provides hardware confirmation of completion of program and erase operations
- **Hardware Reset Pin (RESET#) Resets the Device to Reading Array Data**
- **Compliant With Common Flash Memory Interface (CFI) Specification**
 - Flash device parameters stored directly on the device
 - Allows software driver to identify and use a variety of different current and future Flash products
- **Compatible With JEDEC standards**
 - Pinout and software compatible with single-power supply Flash devices
 - Superior inadvertent write protection
- **Space Efficient Packaging**
 - 48-pin TSOP and 48-ball FBGA packages

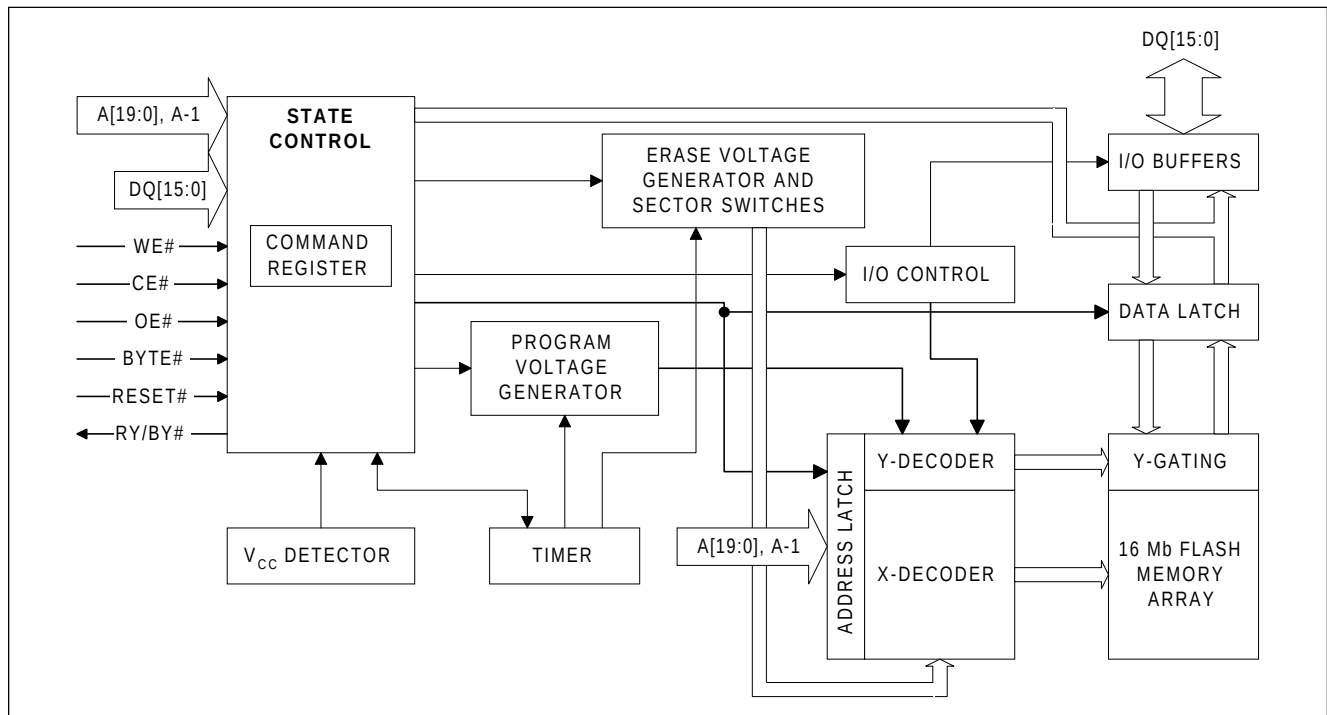
LOGIC DIAGRAM



IC BLOCK DIAGRAM & DESCRIPTION

HY29LV160

BLOCK DIAGRAM



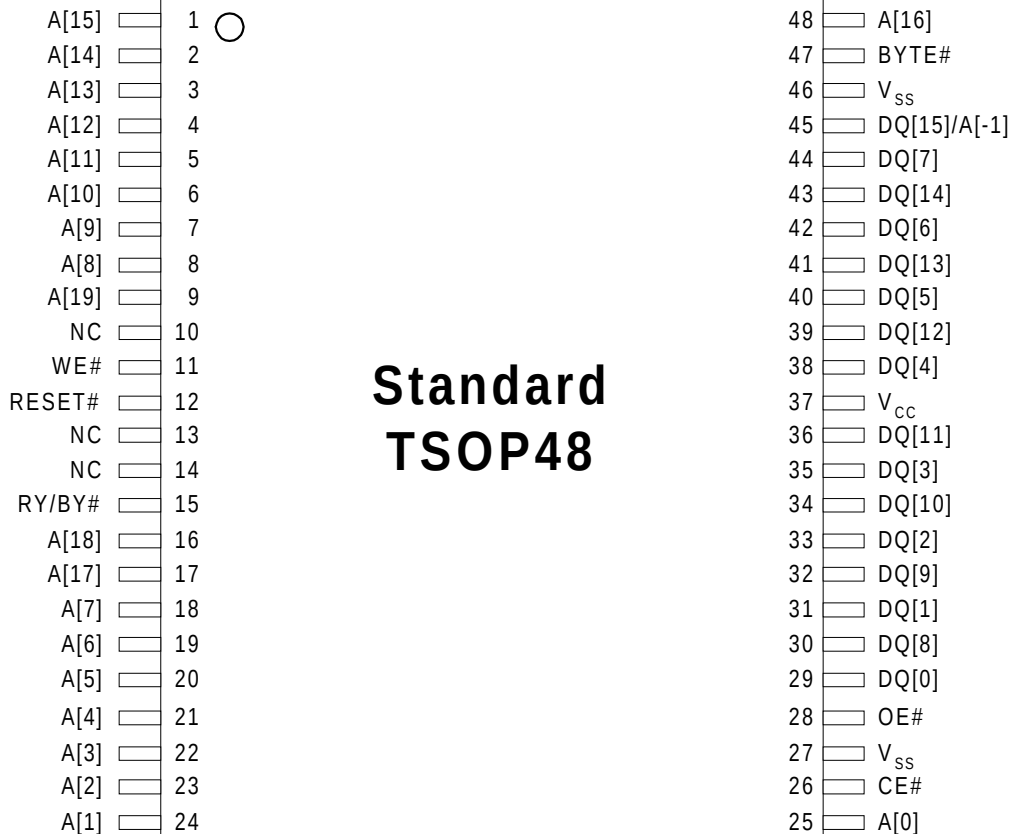
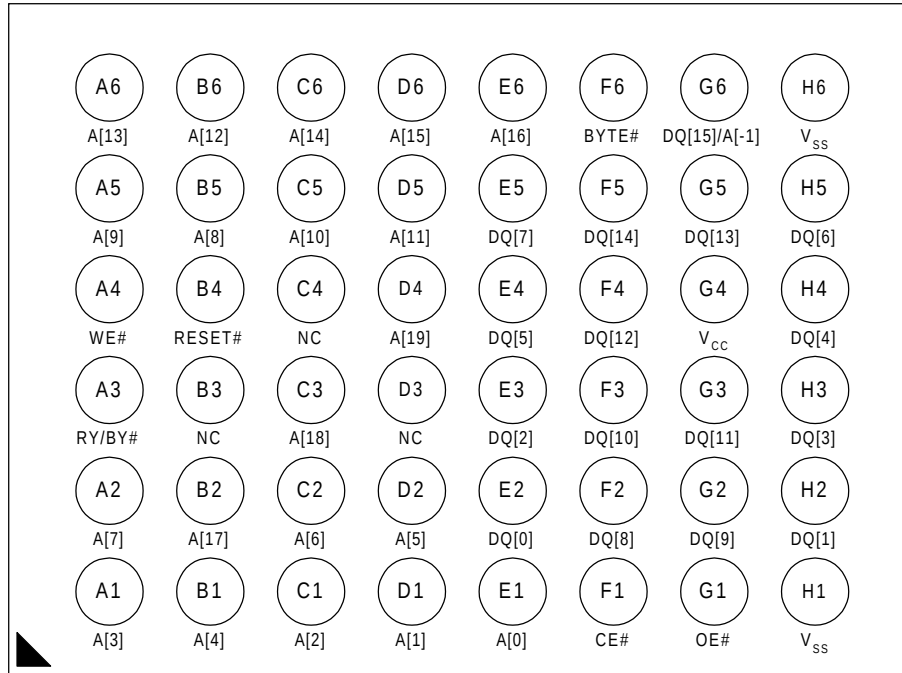
SIGNAL DESCRIPTIONS

Name	Type	Description
A[19:0]	Inputs	Address, active High. These 20 inputs, combined with the DQ[15]/A[-1] input in Byte mode, select one location within the array for read or write operations.
DQ[15]/A[-1], DQ[14:0]	Inputs/Outputs Tri-state	Data Bus, active High. These pins provide an 8- or 16-bit data path for read and write operations. In Byte mode, DQ[15]/A[-1] is used as the LSB of the 21-bit byte address input. DQ[14:8] are unused and remain tri-stated in Byte mode.
BYTE#	Input	Byte Mode, active Low. Low selects Byte mode, High selects Word mode.
CE#	Input	Chip Enable, active Low. This input must be asserted to read data from or write data to the HY29LV160. When High, the data bus is tri-stated and the device is placed in the Standby mode.
OE#	Input	Output Enable, active Low. Asserted for read operations and negated for write operations. BYTE# determines whether a byte or a word is read during the read operation.
WE#	Input	Write Enable, active Low. Controls writing of commands or command sequences in order to program data or erase sectors of the memory array. A write operation takes place when WE# is asserted while CE# is Low and OE# is High.
RESET#	Input	Hardware Reset, active Low. Provides a hardware method of resetting the HY29LV160 to the read array state. When the device is reset, it immediately terminates any operation in progress. While RESET# is asserted, the device will be in the Standby mode.
RY/BY#	Output Open Drain	Ready/Busy Status. Indicates whether a write or erase command is in progress or has been completed. Remains Low while the device is actively programming data or erasing, and goes High when it is ready to read array data.
V _{CC}	--	3-volt (nominal) power supply.
V _{SS}	--	Power and signal ground.

IC BLOCK DIAGRAM & DESCRIPTION

PIN CONFIGURATIONS

48-Ball FBGA (Bottom View)



7.4 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.

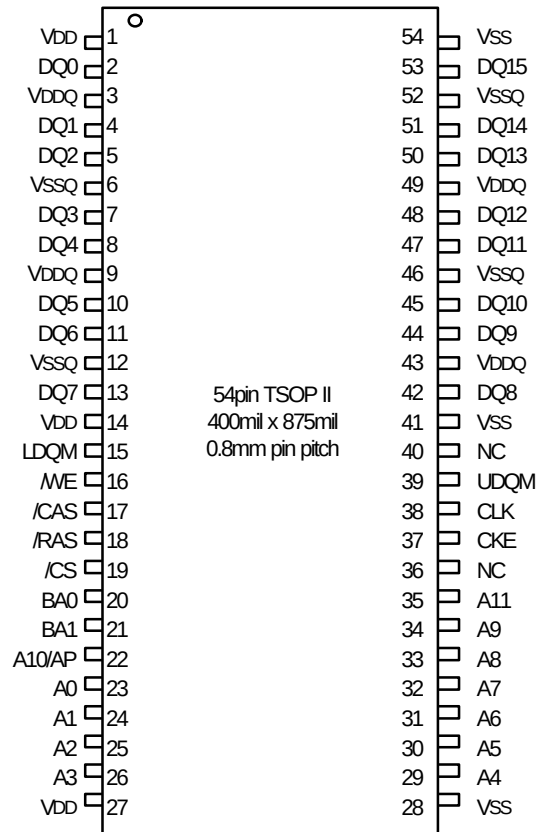
HY57V641620HG is offering fully synchronous operation referenced to a positive edge of the clock. All inputs and outputs are synchronized with the rising edge of the clock input. The data paths are internally pipelined to achieve very high bandwidth. All input and output voltage levels are compatible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

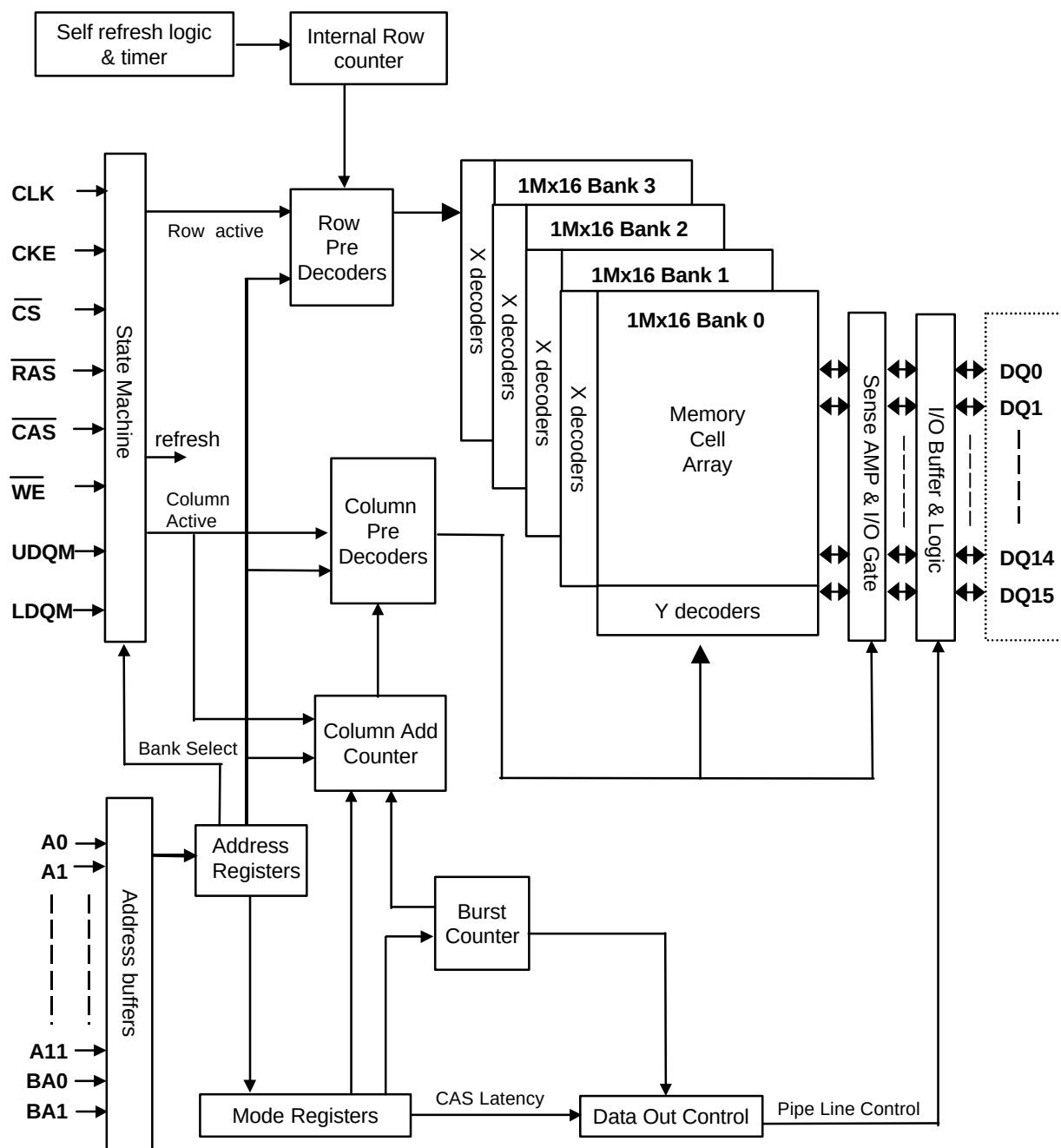


PIN DESCRIPTION

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

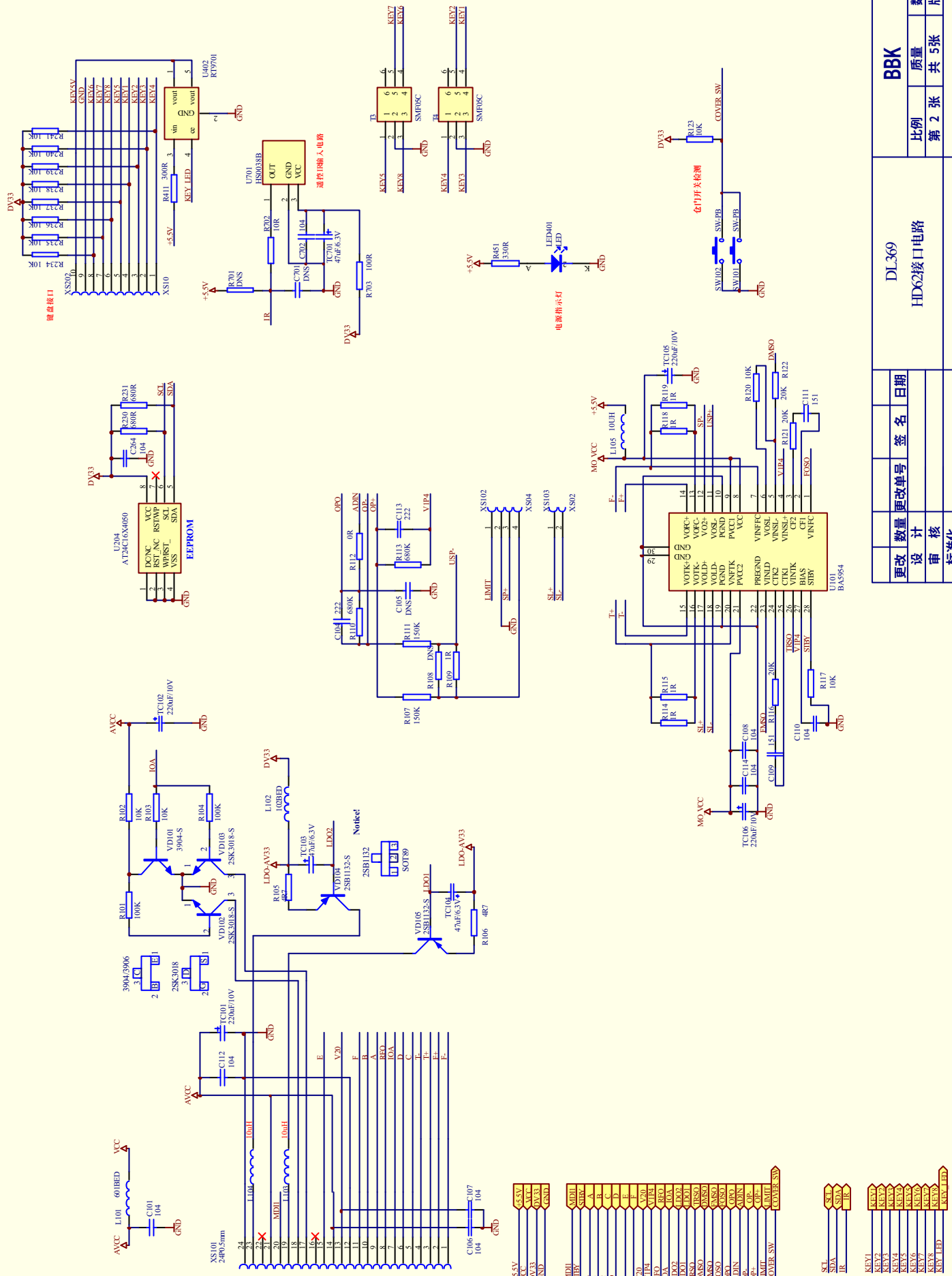
FUNCTIONAL BLOCK DIAGRAM

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

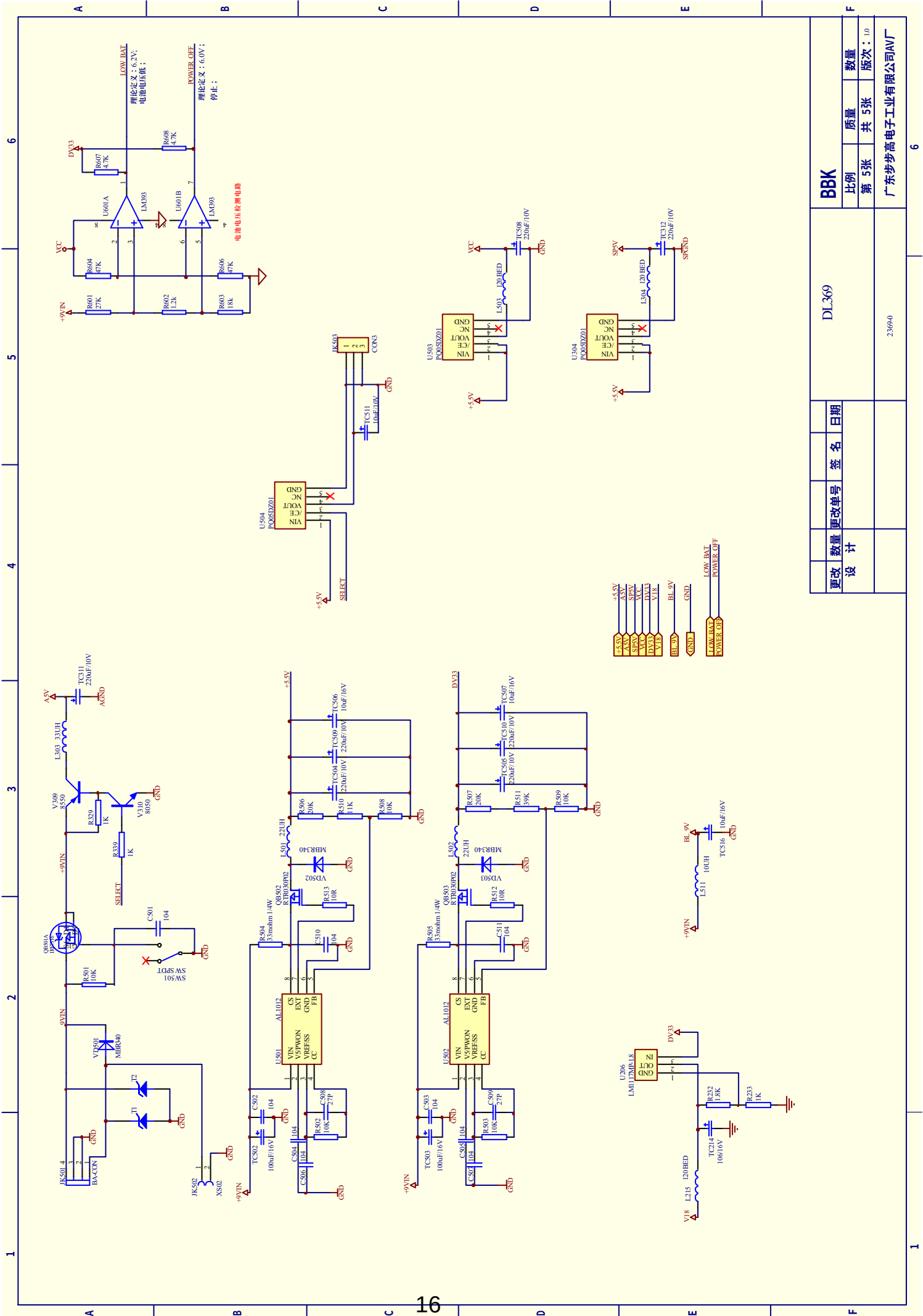


8.SCHEMATIC & P.C.B WIRING DIAGRAM

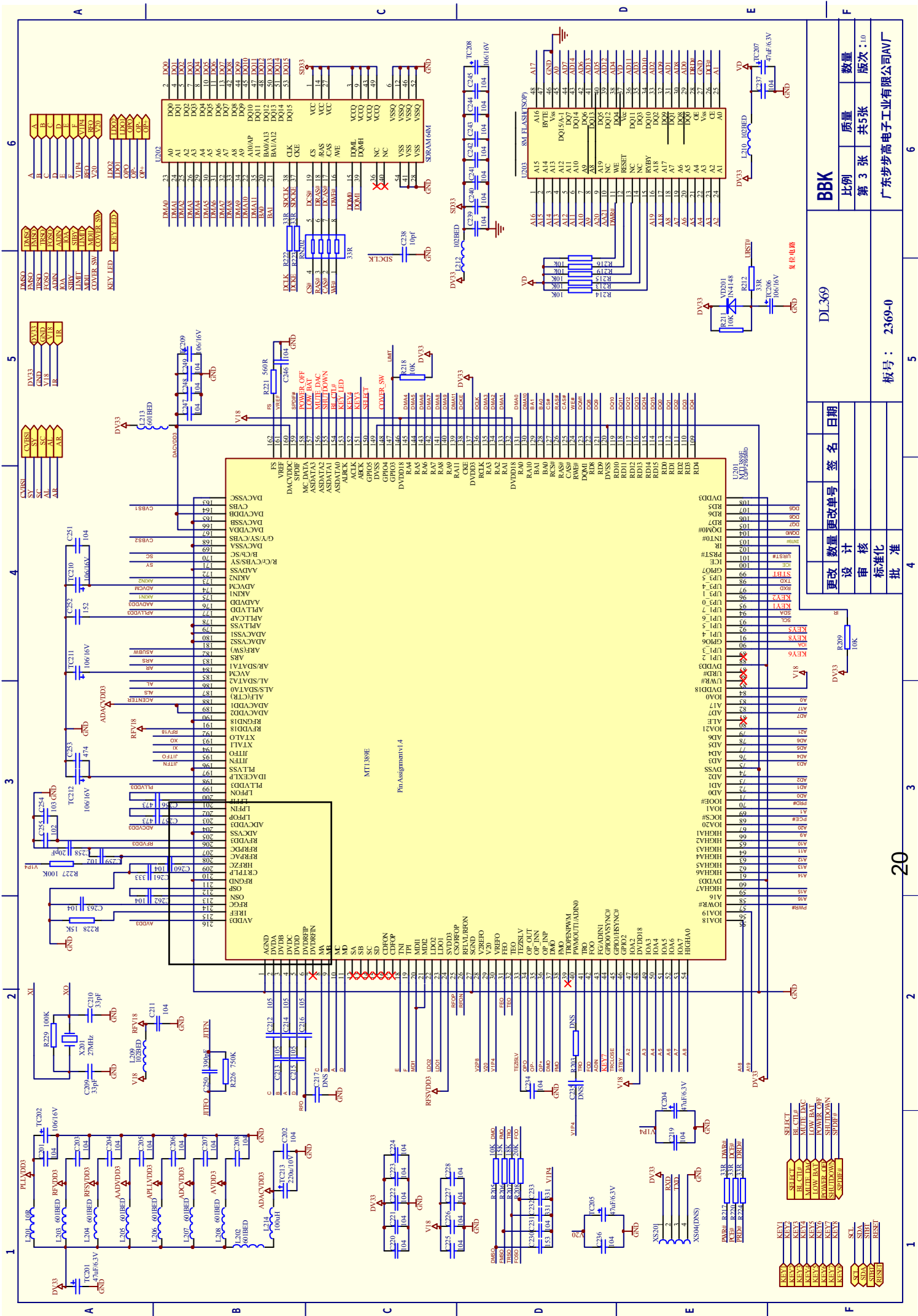
DECODE BOARD

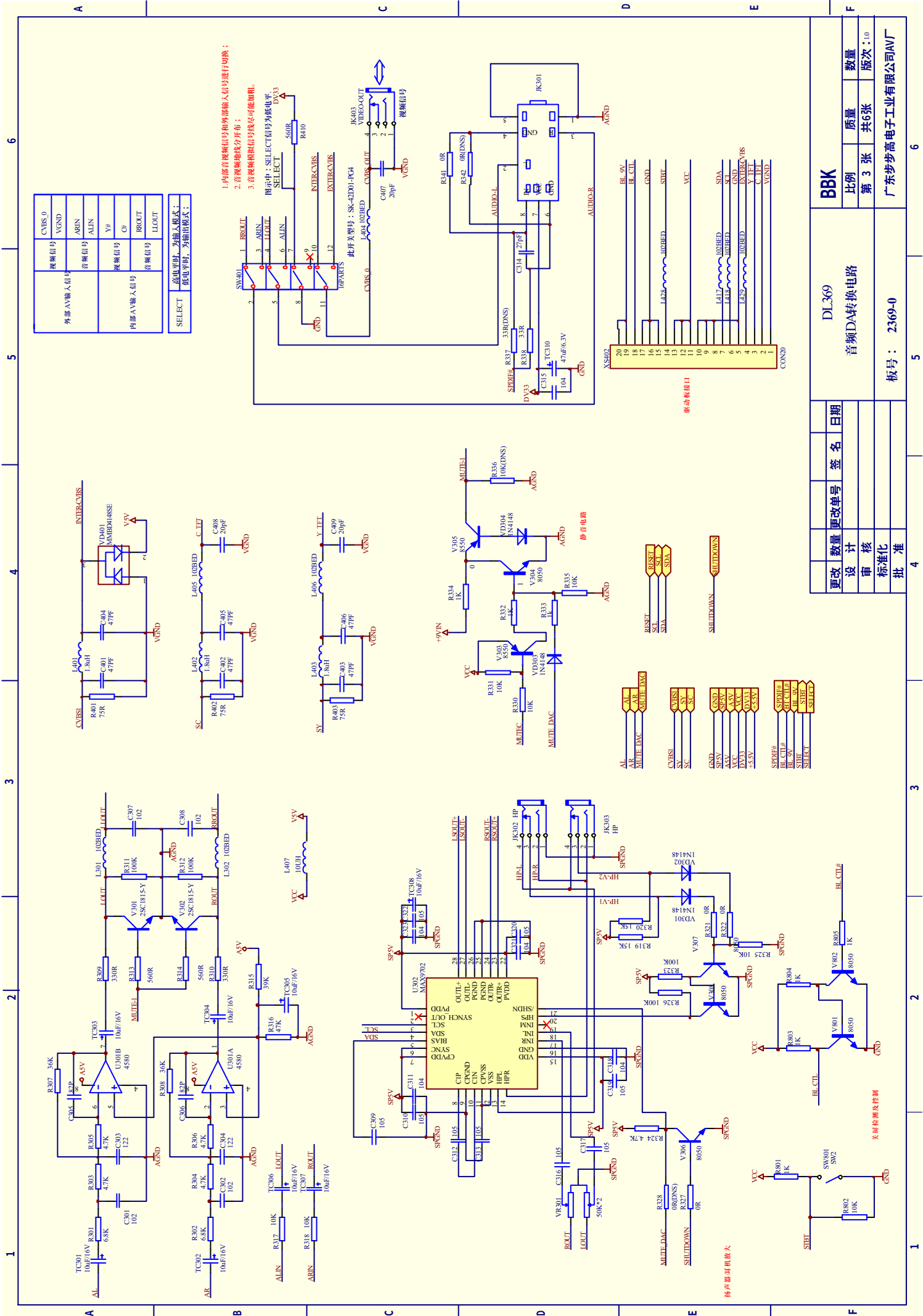


DL369		BBK	
更改	数量	比例	质量
设计	审核	第 2 张	共 5 张
标准	批准	板号: 2369-0	数量 10
广东步步高电子工业有限公司AVI厂			



更改		数量	更改单号	签 名	日期
设计		计			
DL369					
BBK					
比例		质量	数量		
第 5 张		共 5 张	版次: 1.0		
广东步步高电子工业有限公司JAV厂					
236940					
6					





- 1.内部音频信号和外部输入信号进行切换；
- 2.音频频率线分布；
- 3.音频频率信号线尽可能加粗；

图中：SELECT信号为低电平，0V33

此开关型号：SK42D01-PC4

外部AV输入信号	视频信号	CVBS 0
		VGND
	音频信号	ARIN
		ALIN
内部AV输入信号	视频信号	Y#
		C#
	音频信号	RROUT
		LLOUT

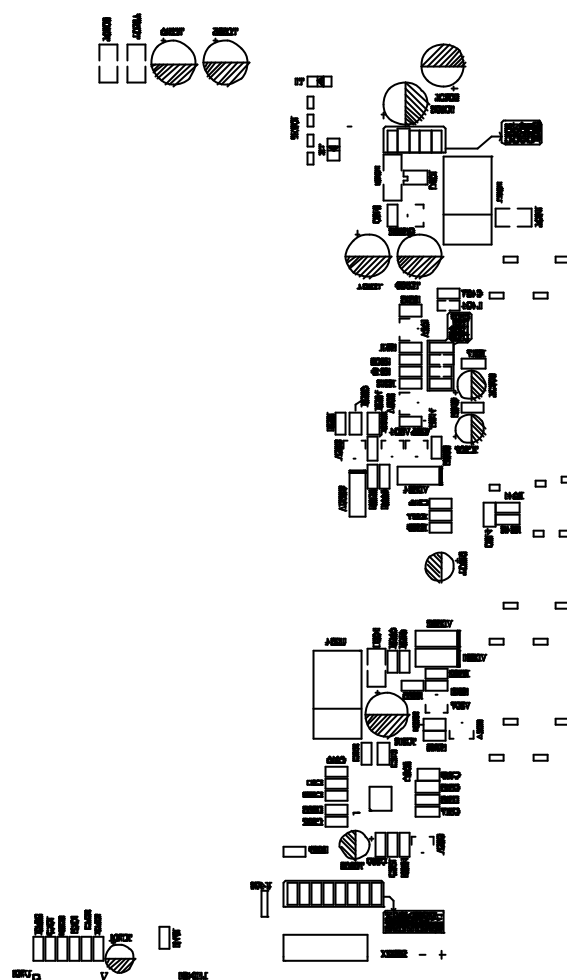
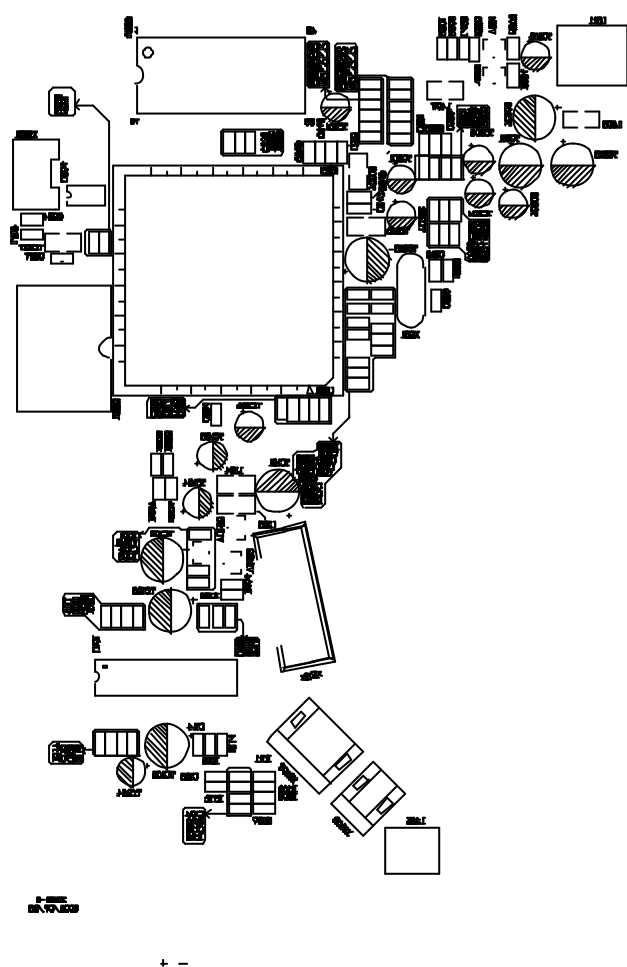
SELECT	高电平时，为输入模式； 低电平时，为输出模式；
--------	----------------------------

SELECT	低电平时，为输入模式；
SELECT	低电平时，为输出模式；

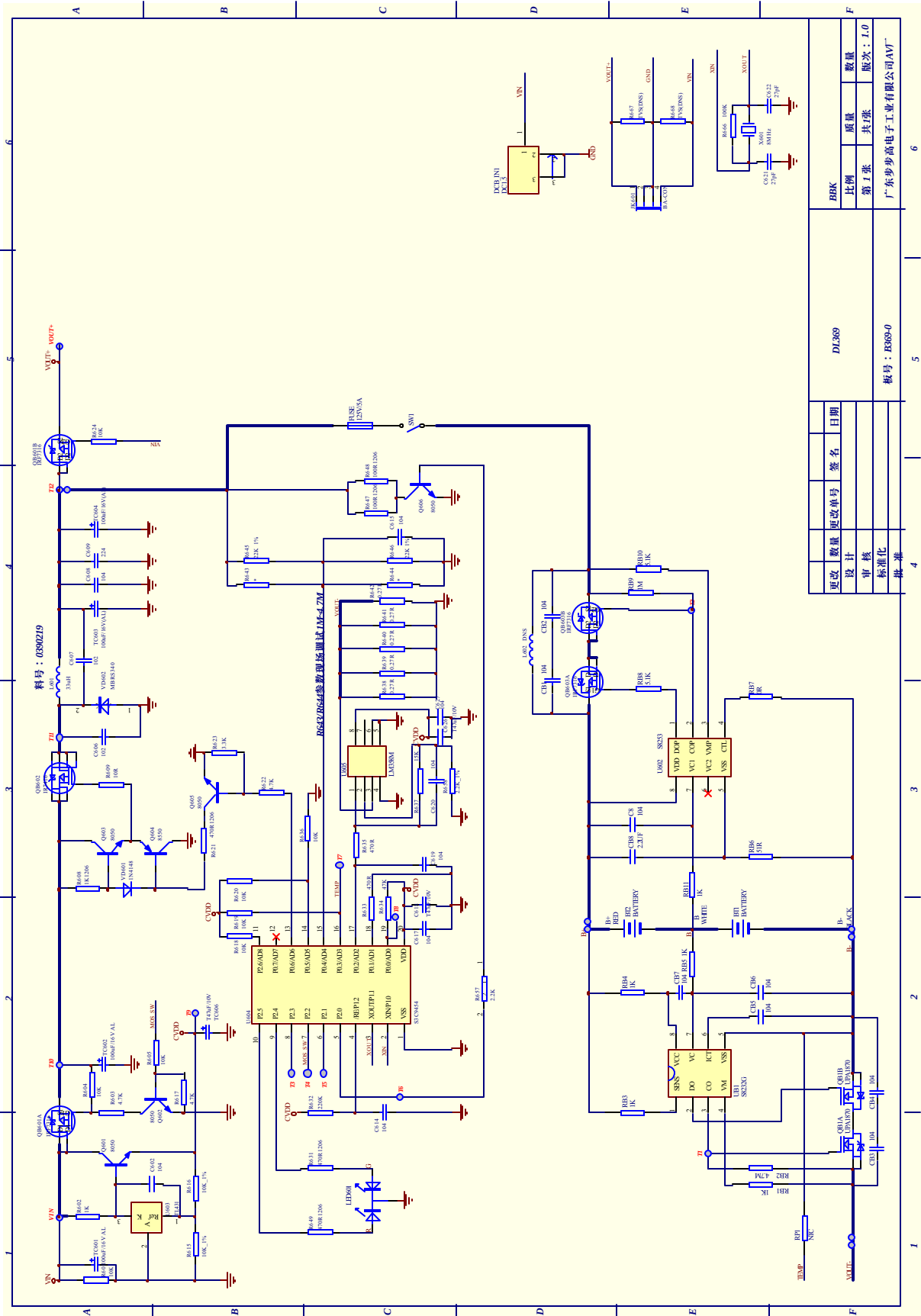
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设计				
审核				
标准化				
批准				

DL369 音频DAC转换电路			
BBK			
比例	质量	数量	版本
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板号： 2369-0			
广东步步高电子工业有限公司AV厂			

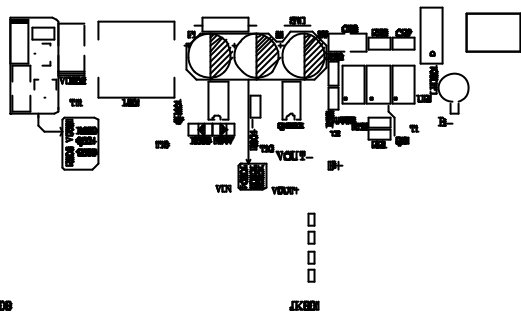
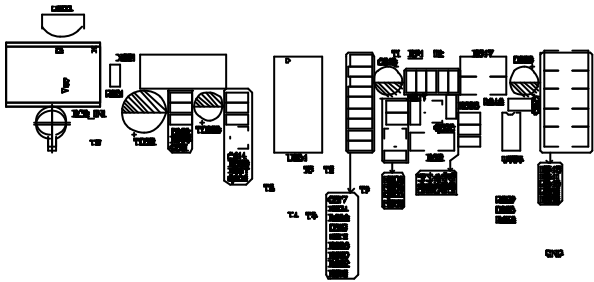
DECODE BOARD



BATTERY CHARGER

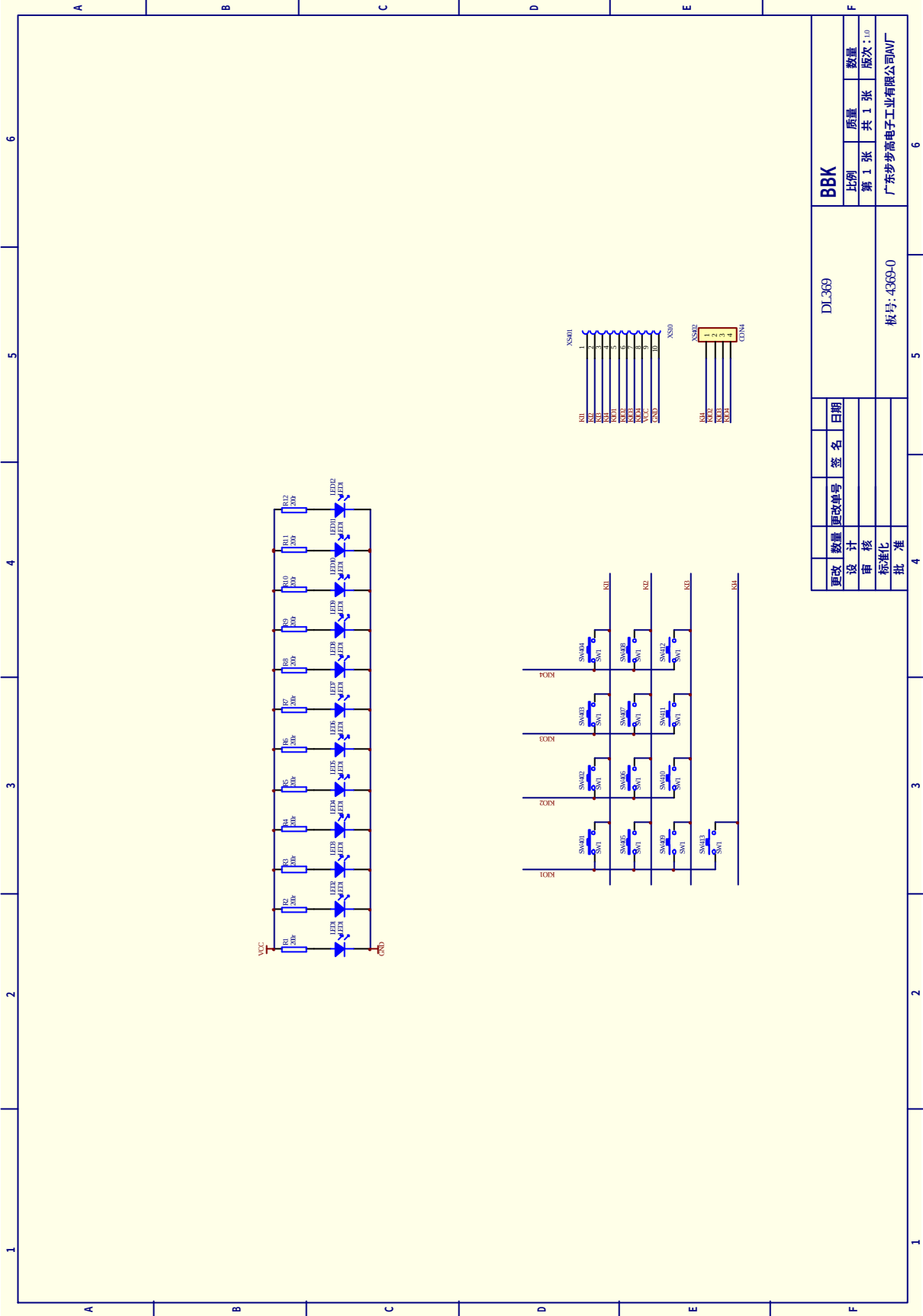


BATTERY CHARGER

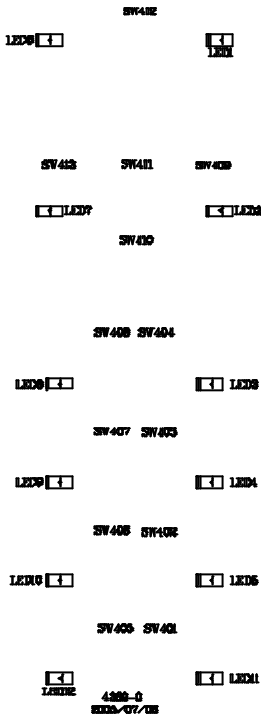


2000-0
005/07/08

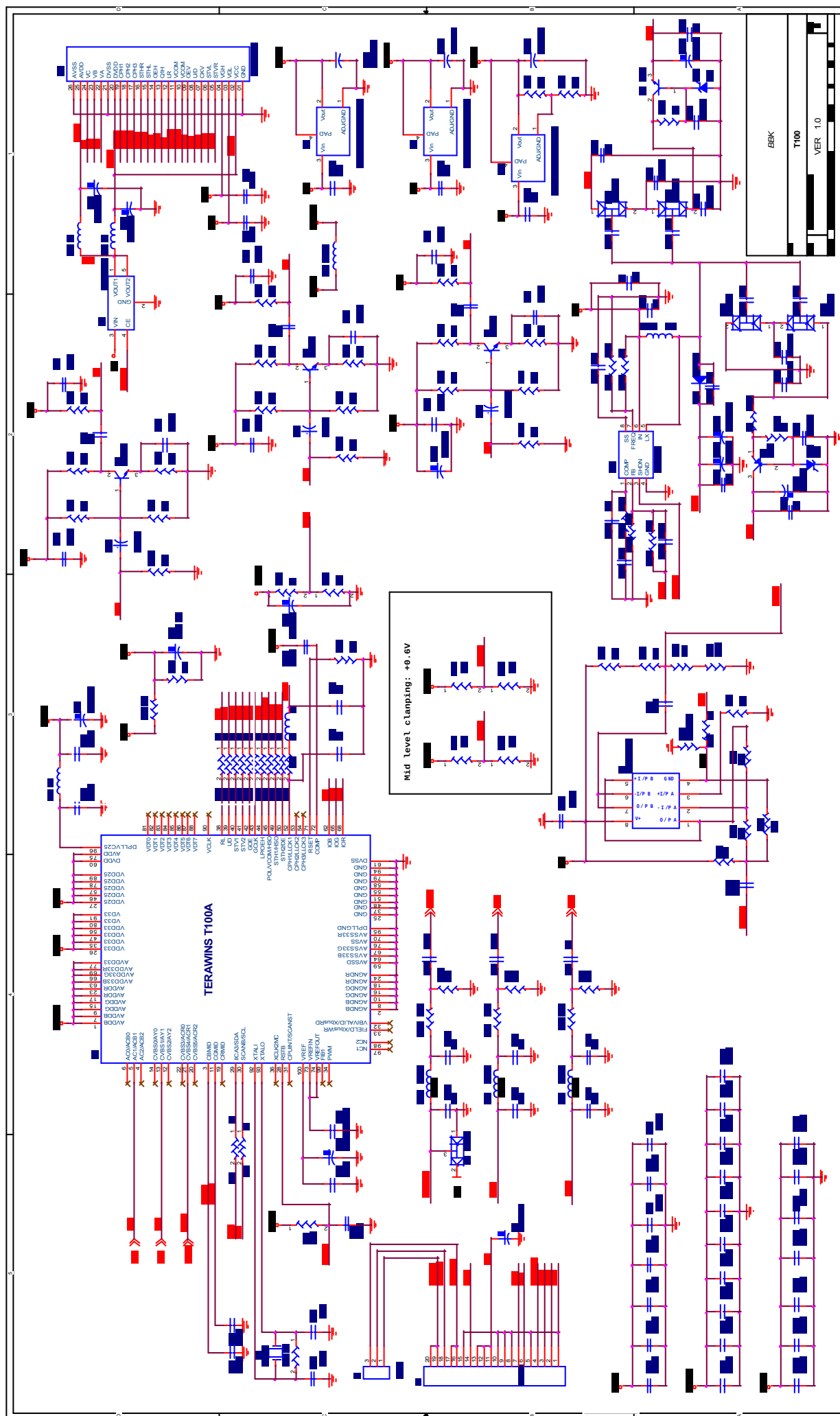
JK001



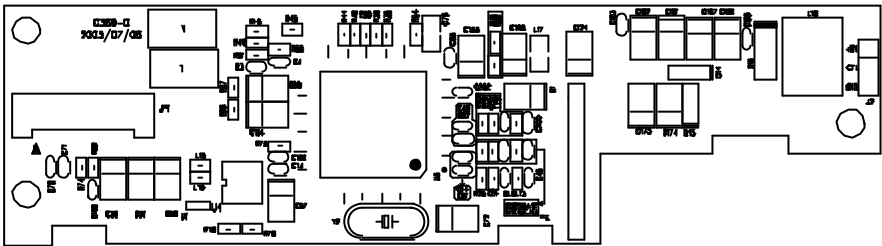
MAIN FRONT PANEL



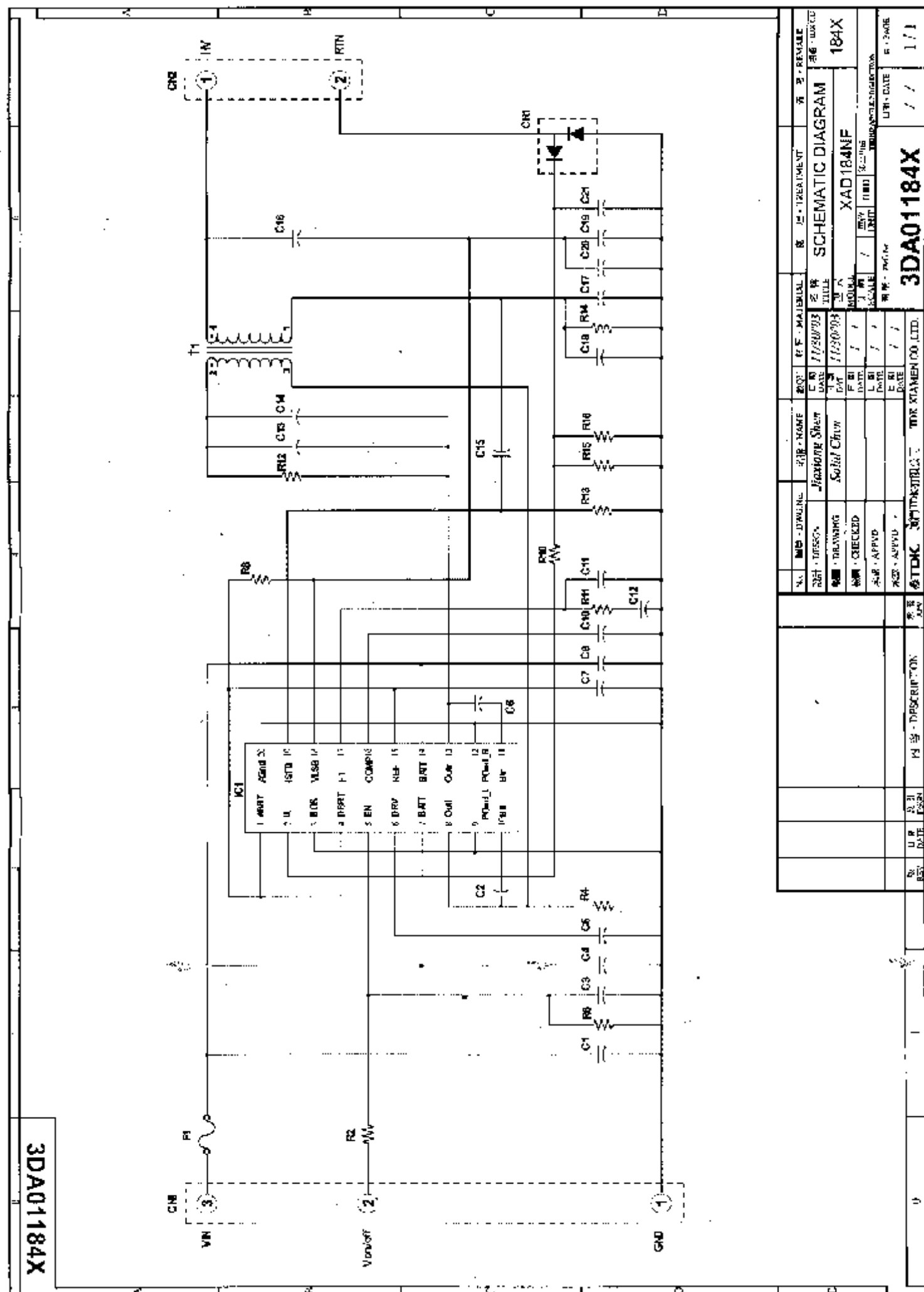
LCD DRIVE BOARD



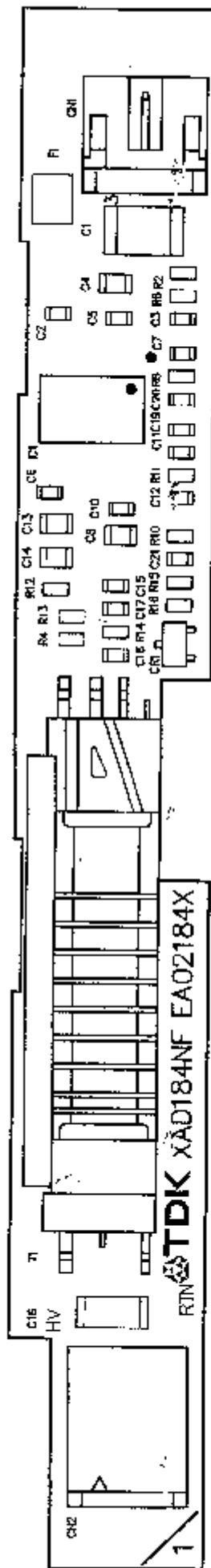
LCD DRIVE BOARD



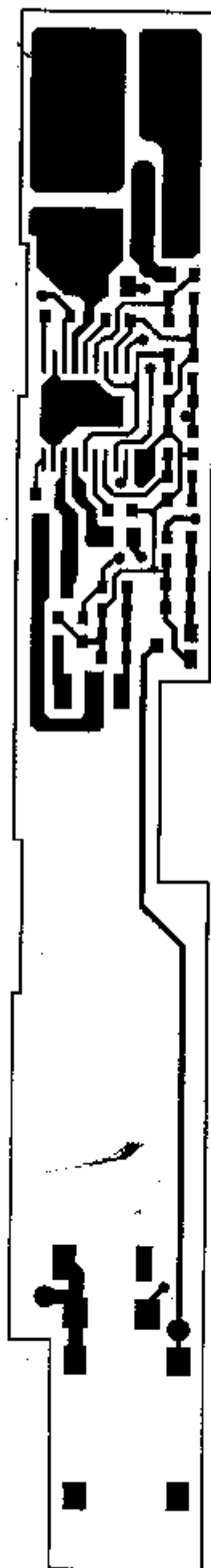
BOOST BOARD



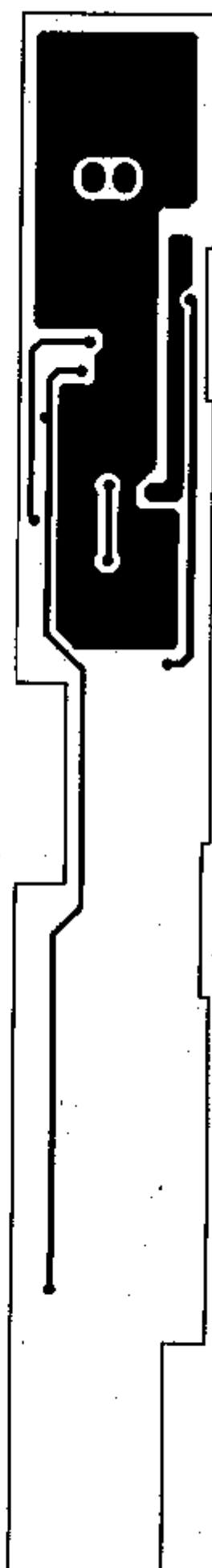
Top Overlay



TopLayer



BottomLayer

[illegible]

PARTS LIST

IDX. CD.		XAD184NF					
184X							
PART NUMBER		DESCRIPTION	QUANT	ITEM NO.	MFRS.	INS.	
C1	C4532X5R1C226MT000N	CAPACITOR	1	IN27200303	TDK		
C2	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C3	C1608X7R1E104KT000N OR C1608X7R1H104KT000N	CAPACITOR	1	IN01618702 IN01661801	TDK TDK		
C4	C2012X7R1E105KT000N OR C2012X7R1C105KT000N	CAPACITOR	1	IN30626701 UN30652203	TDK TDK		
C5	C1608X7R1E104KT000N OR C1608X7R1H104KT000N	CAPACITOR	1	IN01618702 IN01661801	TDK TDK		
C6	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C7	C1608Y5V1C105ZT000N OR C1608X5R1C105KT000N	CAPACITOR	1	IN30300701 IN30205102	TDK TDK		
C8	C2012X7R1E105KT000N OR C2012X7R1C105KT000N	CAPACITOR	1	IN30626701 IN30652203	TDK TDK		
C10	C1608X7R1E152KT000N OR C1608X7R1H152KT000N	CAPACITOR	1	IN01650801 IN01671801	TDK TDK		
C11	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C12	C1608Y5V1C105ZT000N OR C1608X5R1C105KT000N	CAPACITOR	1	IN30300701 IN30205102	TDK TDK		
C13	C2012X7R1C474KT000N OR C2012X7R1E474KT000N	CAPACITOR	1	IN30602604 IN30608002	TDK TDK		
C14	C2012X7R1C474KT000N OR C2012X7R1E474KT000N	CAPACITOR	1	IN30602604 IN30608002	TDK TDK		
C15	C1608X7R1E104KT000N OR C1608X7R1H104KT000N	CAPACITOR	1	IN01618702 IN01661801	TDK TDK		
C16	302R29N150JV4E OR C4520C0G3F150JT0A0N	CAPACITOR	1		JOHANSON TDK		
C17	C1608X7R1E683KT000N OR C1608X7R1H683KT000N	CAPACITOR	1	NS13006 IN58801200	TKD TDK		
C18	NA						
C19	C1608X7R1E562KT000N OR C1608X7R1H562KT000N	CAPACITOR	1	IN01674801 IN01670201	TDK TDK		
C20	NA						
C21	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
R2	RC0603FRF10K OR RMC16P1002F	RESISTOR	1	NS06033 NS06494	YAGEO KAMAYA		
R4	RC0603FRF4.3K OR RMC16P4301F	RESISTOR	1	NS06165 NS06552	YAGEO KAMAYA		
				TITLE: ELECTRICAL PARTS LIST			
				MODEL: XAD184NF			
				DESIGNED	Jiaxiong Shen	DATE	01/30/04
				DRAWN	Jiaxiong Shen		01/30/04
				CHECKED			/ /
REV.	DATE	DESCRIPTION	DRAWN	APV.	APPVD.		/ /
TDK XIAMEN CO., LTD. POWER MFG. DEPT. 321-329, Tongji South RD., Jimei Dist., Xiamen, Fujian, P.R.China			DATE	APPVD.			/ /
				DWG. NO.	4CA01184X		PAGE 1/2

BOOST BOARD

PARTS LIST

IDX. CD.		XAD184NF					
184X							
PART NUMBER		DESCRIPTION	QUANT	ITEM NO.	MFRS.	INS.	
R6	RC0603FRF100K RMC16P1003F	OR RESISTOR	1	NS06028 NS06514	YAGEO KAMAYA		
R8	RC0603FRF300K RMC16P3003F	OR RESISTOR	1	NS06163 NS06527	YAGEO KAMAYA		
R10	RC0603FRF0R0 RMC16P0R00	OR RESISTOR	1	NS06168 NS06481	YAGEO KAMAYA		
R11	RC0603FRF100K RMC16P1003F	OR RESISTOR	1	NS06028 NN06541	YAGEO KAMAYA		
R12	RC0603FRF1K RMC16P1001F	OR RESISTOR	1	NS06020 NS06502	YAGEO KAMAYA		
R13	RC0603FRF300K RMC16P3003F	OR RESISTOR	1	NS06163 NS06527	YAGEO KAMAYA		
R14	RC0603FRF4.3K RMC16P4301F	OR RESISTOR	1	NS06165 NS06552	YAGEO KAMAYA		
R15	RC0603FRF200R RMC16P2000F	OR RESISTOR	1	NS06219 NS06584	YAGEO KAMAYA		
R16	RC0603FRF2K RMC16P2001F	OR RESISTOR	1	NS06113 NS06531	YAGEO KAMAYA		
T1	TDK 10U1-X12	TRANSFORMER	1		GUANN JYE		
IC1	MP1010BEM MP1015EM	IC	1	NS35008 NS35004	MPS		
PB1	3EA02184X 02	P.W.B.	1		MILKY-WAY CCTC XINE		
F1	CCP2E63 TE	FUSE	1		KOA		
CN1	8680S-0300	CONNECTOR	1		E&T		
CN2	4100-02 SM02B-BHSS-1-TB	CONNECTOR	1		E&T ACES		
	4EU02184X	CABLE	1		TDK		
CR1	1SS226(TE85L) MA157-TX	DIODE	1		TOSHIBA PANASONIC		
Packaging Parts List Refer to 4CC12073X Packaging Darling Refer to 4LC12073X							
				TITLE: ELECTRICAL PARTS LIST			
				MODEL: XAD184NF			
				DESIGNED		DATE / /	
				DRAWN		/ /	
				CHECKED		/ /	
REV.	DATE	DESCRIPTION	DRAWN	APV.	APPVD.		/ /
TDK XIAMEN CO., LTD. POWER MFG. DEPT. 321~339, Tongji South RD., Jimei Dist., Xiamen, Fujian, P.R.China			DATE	APPVD.		/ /	
				DWG. NO.		PAGE	
				4CA01184X		2/2	

9.DL372D ATERIAL LIST

DL372D MATERIAL LIST

1. LARGE BUTTONS BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	J/ANTI	LOCATION
0090008	SMD RESISTOR	1/16W 220Ω ±5% 0603	PCS	12	R1-R12
1940294	CABLE SOCKET	10P 1.0mm DUAL LINE CONTACT POINT SMD HORIZONTAL	PCS	1	XS401
1940295	CABLE SOCKET	4P 1.0mm DUAL LINE CONTACT POINT SMD HORIZONTAL	PCS	1	XS402
1632561	PCB	4369-1	PCS	1	

2. SMALL BUTTONS BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	J/ANTI	LOCATION
1940295	CABLE SOCKET	4P 1.0mm DUAL LINE CONTACT POINT SMD HORIZONTAL	PCS	1	J501
1632533	PCB	0369-1	PCS	1	

3. DRIVE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	J/ANTI	LOCATION
0090001	SMD RESISTOR	1/16W 0 Ω ±5% 0603	PCS	3	R80,R124,C48
0090296	SMD RESISTOR	1/16W 18Ω ±5% 0603	PCS	1	R24
90005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	13	R35,R36,R37,R38,R39,R40,R44,R45,R46,R47,R49,R50,R69
0090449	SMD RESISTOR	1/16W 27Ω±5% 0603	PCS	2	R28,R201
0090291	SMD RESISTOR	1/16W 56Ω ±5% 0603	PCS	1	R25
0090220	SMD RESISTOR	1/16W 51Ω ±5% 0603	PCS	2	R29,R202
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	4	R34,R59,R64,R120
0090232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	4	R83,R115,R116,R117
0090239	SMD RESISTOR	1/16W 200Ω ±5% 0603	PCS	3	R51,R82,R1
0090234	SMD RESISTOR	1/16W 390 Ω ±5% 0603	PCS	3	R31,R42,R61
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	2	R125,R126
90235	SMD RESISTOR	1/16W 820Ω ±5% 0603	PCS	1	R73
0090224	SMD RESISTOR	1/16W 3.9K ±5% 0603	PCS	1	R77
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	1	R54
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	11	R33,R58,R63,R67,R70,R72,R79,R121,R32,R43,R62
0090502	PRECISION SMD RESISTOR	1/16W11K±1% 0603	PCS	3	R76,R112,R114
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	2	R68,R78
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	1	R65
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R75
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	1	R66
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	3	R30,R41,R60
0090465	PRECISION SMD RESISTOR	1/16W 47K±1% 0603	PCS	2	R111,R113
0090192	SMD RESISTOR	1/16W 51K ±5% 0603	PCS	1	R122
90109	SMD RESISTOR	1/16W 1MΩ ±5% 0603	PCS	1	R52
0310043	SMD CAPACITOR	50V 22P ±5% NPO 0603	PCS	2	C68,C69
0310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	3	C3,C4,C160
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	4	C60,C75,C88,C162
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	1	C165
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	3	C46,C50,C201
0310054	SMD CAPACITOR	50V 681 ±5% NPO 0603	PCS	3	C45,C49,C200
0310198	SMD CAPACITOR	50V 472 ±10% X7R 0603	PCS	1	C161
0310205	SMD CAPACITOR	50V 473 ±10% X7R 0603	PCS	2	C44,C202
0310594	SMD CAPACITOR	25V 104±10% X7R 0603	PCS	45	C51,C52,C55,C56,C61,C62,C64,C65,C70,C71,C73,C74,C77,C78,C79,C80,C81,C82,C83,C84,C85,C89,C90,C91,C92,C93,C94,C95,C96,C97,C100,C101,C102,C103,C104,C105,C106,C108,C148,C149,C164,C168,C173,C176,C183
0310112	SMD CAPACITOR	16V 224 ±10% X5R 0603	PCS	1	C163
0310362	SMD CAPACITOR	16V 474 +80%-20% Y5V 0603	PCS	4	C169,C170,C177,C178
0310234	SMD CAPACITOR	16V 105 +80%-20% Y5V 0603	PCS	10	C54,C66,C86,C120,C127,C142,C171,C172,C179,C180
0310389	SMD CAPACITOR	10V 106 +80%-20% Y5V 0805	PCS	7	C59,C67,C76,C87,C99,C107,C5
0310701	SMD CAPACITOR	10V 106±20% Y5V 0805	PCS	7	C59,C67,C76,C87,C99,C107,C5
0310549	SMD CERAMIC CAPACITOR	25V 106+80%-20% 1210	PCS	6	C167,C174,C175,C181,C182,C98
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	11	C1,C30,C31,C57,C58,C72,C124,C128,C153,C154,C166
390189	SMD INDUCTOR	2.7UH ±10% 1608	PCS	3	L13,L14,L201
0390241	SMD MAGNETIC CORE INDUCTOR	10uH±20%CDRH5D18	PCS	1	L18
0680028	SMD SCHOTTKY DIODE	MBRS340	PCS	1	D16
0680042	SMD SCHOTTKY DIODE	BAT54S SOT-23	PCS	4	D10,D11,D12,D13
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	1	D9
0700136	SMD VOLTAGE REGULATOR DIODE	16V ±5% 1/2W MINIMELF	PCS	1	D15
0700137	SMD VOLTAGE REGULATOR DIODE	11V ±5% 1/2W MINIMELF	PCS	1	D14
0780040	SMD TRIODE	3904(100-300) SOT-23	PCS	3	Q1,Q2,Q3
0780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	1	Q4
0780085	SMD TRIODE	8050D	PCS	1	Q5
0882869	IC	T100A LQFP	PCS	1	U3

0881539	IC	NJM3414AM SOP	PCS	1	U4
0882268	IC	AAT1102M MSOP	PCS	1	U11
0882114	IC	AMS1117-3.3 SOT-223	PCS	2	U7,U8
0882485	IC	AZ1117H-3.3 SOT-223	PCS	2	U7,U8
0881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U10
0960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	Y2
1940194	CABLE SOCKET	26P 0.5mm SMD WITH CLASP	PCS	1	JP1
1940237	SOCKET	20P 0.8mm SMD	PCS	1	J1
0390025	S	BGH2012B601L	PCS	3	L15,L16,L19
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	1	L1
0881914	IC	RT9701CB SOT25	PCS	1	U1
1632722	PCB	C369-3	PCS	1	

4. BATTERY CHARGER

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
0090536	SMD RESISTOR	1/8W 0.27Ω±5% 1206	PCS	5	R638,R639,R640,R641,R642
0090003	SMD RESISTOR	1/16W 10Ω ±5% 0603	PCS	1	R609
0090171	SMD RESISTOR	1/8W 1K ±5% 1206	PCS	1	R608
0090135	SMD RESISTOR	1/8W 100Ω ±5% 1206	PCS	2	R647,R648
90011	SMD RESISTOR	1/16W 470Ω ±5% 0603	PCS	4	R631,R633,R635,R649
0090488	SMD RESISTOR	1/8W 470Ω±5% 1206	PCS	1	R621
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	5	R602,RB1,RB3,RB4,RB5
0090016	SMD RESISTOR	1/16W 1.5K ±5% 0603	PCS	1	R658
0090017	SMD RESISTOR	1/16W 2.2K ±5% 0603	PCS	1	R657
0090549	PRECISION SMD RESISTOR	1/16W 3k ±1% 0603	PCS	1	R623
0090304	PRECISION SMD RESISTOR	1/16W 10K±1% 0603	PCS	2	R615,R616
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	4	R603,R617,R622,R625
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	8	R601,R604,R605,R618,R619,R620,R624,R636
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R637
0090029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	1	R634
0090490	PRECISION SMD RESISTOR	1/16W 22K±1% 0603	PCS	2	R645,R646
0090201	SMD RESISTOR	1/16W 220K ±5% 0603	PCS	1	R632
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	1	R666
0090233	SMD RESISTOR	1/16W 4.7MΩ ±5% 0603	PCS	1	RB2
0310043	SMD CAPACITOR	50V 22P ±5% NPO 0603	PCS	2	C621,C622
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	2	C606,C607
0310207	SMD CAPACITOR	50V 104 ±20% X7R 0603	PCS	13	C602,C608,C614,C615,C617,C619,C620,C627,CB3,CB4,CB5,CB6,CB7
0310112	SMD CAPACITOR	16V 224 ±10% X5R 0603	PCS	1	C609
0260008	CD	CD11C 10V47U±20%4×7 1.5	PCS	3	C618,C626,TC606
260568	CD	CD11E 16V100U±20%6.3×5 2.5	PCS	4	TC601,TC602,TC603,TC604
0390333	SMD MAGNETIC CORE INDUCTOR	33UH±30% CDRH105R	PCS	1	L601
0780085	SMD TRIODE	8050D	PCS	5	Q601,Q602,Q603,Q605,Q606
0780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	1	Q604
0680028	SMD SCHOTTKY DIODE	MBR5340	PCS	1	VD602
0700007	SMD DIODE	1N4148	PCS	1	VD601
0570068	SMD TVS DIODE	PSD12 (12V) SOD-323	PCS	2	R667,R668
0790021	FIELD EFFECT TUBE	IRF7416 SOP	PCS	1	QB602
0790040	FIELD EFFECT TUBE	UPA1870 SSOP	PCS	1	QB1
0790039	FIELD EFFECT TUBE	IRF7316 S08	PCS	1	QB601
0882868	IC	S3F9454ZZ TSSOP(379R/G)	PCS	1	U604
0881535	IC	S8232 SOP	PCS	1	UB1
0880176	IC	LM358M SOP	PCS	1	U605
0882285	IC	TL431-2.5V SOT-23	PCS	1	U603
2310004	FUSE	F5A 125V	PCS	1	F1
0620032	DUAL COLOR LIGHT RADIATION DIODE	2RG 59SW RED.GREEN 2×5×7	PCS	1	LED601
960245	SMD CRYSTAL OSCILLATOR	8.00MHz ±20ppm 49-S	PCS	1	X601
1870021	POWER SOCKET	DC-023	PCS	1	DCB_IN1
1860107	BATTERY CONNECTOR	4P2.5MM LIN-0406	PCS	1	JK601
1632829	PCB	B369-4	PCS	1	

5. POWER ADAPTOR

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
3031674	UPPER COVER OF POWER SUPPLY CASE	DL369 WHITE	PCS	1	
3041272	LOWER COVER OF POWER SUPPLY CASE	DL369 WHITE	PCS	1	
3050357	INDICATOR LIGHT COVER OF POWER SUPPLY BOX	AK001 TRANSPARENT	PCS	1	
5234224	FOOT SPACER	Φ7×1 WHITE RUBBER	PCS	2	
4000119	SELF-TAPPING SCREW	PB 3×8 WHITE	PCS	2	
2140324	POWER CORD	@2P 1.2M 帶Φ4.0DC插头 白 UL	PCS	1	P-, P+
5447123	PCB SEMI-FINISHED PRODUCT	5333A-2 DL369	PCS	1	

6. CAR ADAPTOR

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
0680065	SCHOTTKY DIODE	SR560 DO-27 SHAPED 20mm	PCS	2	VD1,VD3
0000283	CARBON FILM RESISTOR	1/4W1K±5% SHAPED 10	PCS	1	R1
0620025	LIGHT RADIATION DIODE	3R 4SD RED	PCS	1	VD2
1632718	PCB	D333S-0	PCS	1	
5071052	DOUBLE-FACED PLASTIC BAG	120×350	PCS	1	

2140323	POWER CORD	2P 2m WITH Φ 4.0DC PLUG	PCS	1	P+,P-
5232167	FIBRE TUBING	Φ 1 WHITE	METRE	0.024	
3031156	UPPER COVER OF CAR POWER CORD CASE	AK008 BLACK	PCS	1	
3040843	LOWER COVER OF CAR POWER CORD CASE	AK008 BLACK	PCS	1	
3870754	GASKET	AK008	PCS	1	
3870755	CONTACT POINT	AK008	PCS	1	
3630186	SHRAPNEL	AK008	PCS	2	
3810034	SPRING	AK008	PCS	1	
3870756	FUSE HOLDER	AK008	PCS	1	
3060299	COVER OF CONTACT HEAD	AK008 BLACK	PCS	1	
2110002	LEAD	24# 30mm RED	PCS	2	
2110004	LEAD	24# 40mm BLACK	PCS	1	
2300018	FUSE TUBE	T3.15AL 250V (VDE/UL)	PCS	1	
5232168	DUST-PROOF NET	AK008 BLACK	PCS	4	

7. BATTERY CASE

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
1510172	RECHARGEABLE BATTERY	3000mAh 7.2V LITHIUM 139.5×36×7.5	SUIT	1	
1050013	THERMISTOR	NTC 10K±5% B:3950K	PCS	1	RP1
1090082	TEMPERATURE SWITCH	250V 5A 75℃ LENGTH 130mm	PCS	1	SW1
5233441	INSULATION PLASTIC TAPE	PZ-281 LENGTH: 60m WIDTH: 23mm DARK SELF LOW	ROLL	0.002	
5234206	PVC PIECE	6×4×0.8 SINGLE-SIDED WITH GLUE IN REAR SIDE	PCS	1	STICK TO THE SPRING OF LOWER COVER
5234314	SOFT SPONGE SPACER	95×5×2 SOFT WITHOUT GLUE IN REAR SIDE	PCS	1	
5234328	DOUBLE-FACED GLUE	DL369 120×34	PCS	1	STICK ON CORE AND BATTERY CORE BRACKET
5180757	STICKER OF BATTERY CASE UPPER COVER	22×18 DL369 WHITE	PCS	2	STICK TO HOLE OF UPPER COVER OF BATTERY CASE
5234242	CUSHION	55×18×1.5 DOUBLE-FACED WITH GLUE IN REAR SIDE (TOYO GLUE)	PCS	1	MIDDLE BAFFLE BOARD OF BATTERY CASE UPPER COVER
5234243	CUSHION	18×18×1.5 DOUBLE-FACED WITH GLUE IN REAR SIDE (TOYO GLUE)	PCS	2	LEFT AND RIGHT BAFFLE BOARD OF BATTERY CASE UPPER COVER
5142620	SN LABEL	PORTABLE DVD BATTERY WITH BAR CODE	SUIT	1	
3071770	UPPER COVER OF BATTERY CASE	DL372D(RU) CERAMIC WHITE	PCS	1	
3071771	LOWER COVER OF BATTERY CASE	DL372D(RU) CERAMIC WHITE	PCS	1	
3070988	BATTERY PUSH BUTTON	DL369 CERAMIC WHITE	PCS	1	
3810023	SLIDER SPRING OF BATTERY CASE	DL333	PCS	1	
3871663	BATTERY CORE BRACKET	DL369	PCS	1	
5234241	PVC INSULATION PIECE	DL369 SINGLE-SIDED WITH GLUE IN REAR SIDE	PCS	1	
4040002	SELF-TAPPING SCREW	FB 1.7×10 WHITE	PCS	2	
5234078	FOOT SPACER	Φ 10×2 SILICA GEL	PCS	2	
5234106	SILICA GEL SPACER	DL369 WHITE	PCS	2	
5447602	PCB SEMI-FINISHED PRODUCT	B369-3 DL372D (RU)	PCS	1	

8. REMOTE CONTROL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C802,C803
0630009	TRANSMITTING TUBE	TSAL4400	PCS	1	LED801
0630010	TRANSMITTING TUBE	LTE-4206	PCS	1	LED801
0700007	SMD DIODE	1N4148	PCS	3	D801-D803
0700001	SMD DIODE	1S4148	PCS	3	D801-D803
0700002	SMD DIODE	1L4148	PCS	3	D801-D803
0780130	SMD TRIODE	STC3265	PCS	1	Q801
0880186	IC	HT6222 SOP	PCS	1	U801
0880220	IC	PT2222 SOP	PCS	1	U801
0970003	CERAMIC RESONATOR	455E	PCS	1	X801
1562146	PCB	8917-1	PCS	1	
3031672	SURFACE COVER OF REMOTE CONTROL	DL369 WHITE	PCS	1	
3041261	BOTTOM COVER OF REMOTE CONTROL	DL369 WHITE	PCS	1	
3051169	BATTERY CASE DOOR OF REMOTE CONTROL	DL369 WHITE	PCS	1	
3630135	ANODE SHRAPNEL OF REMOTE CONTROL	RC017	PCS	1	
3630136	CATHODE SHRAPNEL OF REMOTE CONTROL	RC017	PCS	1	
4000291	SELF-TAPPING SCREW	BB2×5 NICKEL	PCS	4	
4630972	ELECTRICITY-CONDUCT GLUE OF REMOTE CONTROL	DL372D(RU) WHITE	PCS	1	
5070744	PLASTIC BAG FOR ENVIRONMENTAL PROTECTION (WITHOUT HOLE)	75×200×0.05 PE	PCS	1	
5152319	BOTTOM COVER LABEL	RC017R	PCS	1	
5155982	SURFACE COVER OF REMOTE CONTROL	DL372D(RU) WHITE	PCS	1	

9. DECODE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	ANTI	LOCATION
0090001	SMD RESISTOR	1/16W 0 Ω ±5% 0603	PCS	7	R112,R321,R322,R327,R341,R317,R318
0090484	SMD RESISTOR	1/4W 0.033 Ω ±5% 1210	PCS	2	R504,R505
0090272	SMD RESISTOR	1/16W 1 Ω ±5% 0603	PCS	5	R109,R114,R115,R118,R119
0090106	SMD RESISTOR	1/16W 4.7 Ω ±5% 0603	PCS	2	R105,R106
0090003	SMD RESISTOR	1/16W 10 Ω ±5% 0603	PCS	3	R702,L201,R513
0090005	SMD RESISTOR	1/16W 33 Ω ±5% 0603	PCS	8	R217,R220,R222,R223,R224,R338,R210,R225

1090083	ESD COMPONENTS	UCLAMP0506A SC-89	PCS	2	T3,T4
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	1	R401
0090232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	2	R402,R403
90181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	1	R703
0090009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	3	R309,R310,R451
0090012	SMD RESISTOR	1/16W 560Ω ±5% 0603	PCS	4	R221,R313,R314,R410
0090013	SMD RESISTOR	1/16W 680Ω ±5% 0603	PCS	2	R230,R231
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	10	R233,R332,R333,R334,R801,R803,R804,R805,R339,R324
90015	SMD RESISTOR	1/16W 1.2K ±5% 0603	PCS	1	R602
0090236	SMD RESISTOR	1/16W 1.8K ±5% 0603	PCS	1	R232
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	7	R303,R304,R305,R306,R607,R608,R329
0090021	SMD RESISTOR	1/16W 6.8K ±5% 0603	PCS	2	R301,R302
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	34	R102,R103,R117,R120,R123,R205,R209,R211,R213-R216,R218,R219,R234-R241,R325,R330,R331,R335,R501,R508,R802,R509,R502,R503,R212,R340
0090502	SMD RESISTOR	1/16W11K±1% 0603	PCS	1	R510
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	4	R206,R228,R319,R320
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	2	R207,R603
90025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	6	R116,R121,R122,R208,R506,R507
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	1	R601
0090190	SMD RESISTOR	1/16W 36K ±5% 0603	PCS	2	R307,R308
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	1	R315
0090029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	3	R604,R606,R316
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	8	R101,R104,R227,R229,R311,R312,R323,R326
0090197	SMD RESISTOR	1/16W 150K ±5% 0603	PCS	2	R107,R111
0090211	SMD RESISTOR	1/16W 680K ±5% 0603	PCS	2	R110,R113
0090212	SMD RESISTOR	1/16W 750K ±5% 0603	PCS	1	R226
100019	SMD RESISTOR NETWORK	1/16W33Ω ±5% 8P	PCS	1	RN202
0160157	ROTATED POTENTIOMETER	WHE101GB-2A-B50K-16	PCS	1	VR301
0260569	CD	CD11E 16V10U±20%4×5 1.5	PCS	9	TC301-TC308,TC516
0260458	CD	CD11E6.3V47U±20%4×5 1.5	PCS	8	TC103,TC104,TC201,TC204,TC205,TC310,TC701,TC215
0260568	CD	CD11E 16V100U±20%6.3×5 2.5	PCS	4	TC311,TC313,TC502,TC503
0260222	CD	CD11C 10V220U±20%6×7 2.5	PCS	6	TC102,TC105,TC106,TC213,TC312,TC508
0260679	CD	CD288H 10V 470U±20% 8×12 3.5	PCS	2	TC509,TC510
0310389	SMD CAPACITOR	10V 106 +80%-20% Y5V 0805	PCS	12	TC202,TC206,TC207,TC208,TC209,TC210,TC211,TC212,TC214,TC506,TC507,TC511
310701	SMD CAPACITOR	10V 106±20% Y5V 0805	PCS	12	TC202,TC206,TC207,TC208,TC209,TC210,TC211,TC212,TC214,TC506,TC507,TC511
0310188	SMD CAPACITOR	50V 10P ±5% NPO 0603	PCS	1	C238
0310647	SMD CAPACITOR	25V 20P ±5% NPO 0603	PCS	4	C258,C407,C408,C409
0310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	3	C314,C508,C509
0310044	SMD CAPACITOR	50V 33P ±5% NPO 0603	PCS	2	C209,C210
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	6	C401-C406
0310046	SMD CAPACITOR	50V 82P ±5% NPO 0603	PCS	2	C305,C306
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C109,C111
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	2	C232,C233
310064	SMD CAPACITOR	50V 391 ±10% X7R 0603	PCS	1	C250
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	6	C255,C259,C301,C302,C307,C308
0310231	SMD CAPACITOR	50V 122 ±10% X7R 0603	PCS	2	C303,C304
0310067	SMD CAPACITOR	50V 152 ±10% X7R 0603	PCS	1	C252
0310117	SMD CAPACITOR	50V 222 ±5% X7R 0603	PCS	2	C104,C113
0310072	SMD CAPACITOR	50V 103 ±10% X7R 0603	PCS	1	C254
0310201	SMD CAPACITOR	50V 153 ±10% X7R 0603	PCS	1	C230
310055	SMD CAPACITOR	16V 333 ±10% X7R 0603	PCS	1	C261
0310056	SMD CAPACITOR	16V 473 ±10% X7R 0603	PCS	2	C256,C257
0310594	SMD CAPACITOR	25V 104±10% X7R 0603	PCS	62	C101,C106,C107,C108,C110,C112,C114,C201-C208,C211,C219,C220-C228,C231,C234,C236,C237,C239-C249,C251,C260,C262,C263,C264,C311,C315,C318,C321,C323,C501-C507,C510,C511,C702,C265
0310542	SMD CAPACITOR	16V 474 ±10% X5R 0603	PCS	1	C253
0310234	SMD CAPACITOR	16V 105 +80%-20% Y5V 0603	PCS	14	C212-C216,C309,C310,C312,C313,C316,C317,C319,C320,C322
0390096	SMD INDUCTOR	1.8UH ±10% 1608	PCS	3	L401-L403
0390044	SMD INDUCTOR	10UH ±10% 2012	PCS	3	L103,L104,L407
0390215	SMD INDUCTOR	33uH±10% 3225	PCS	1	L303
0390279	SMD STRING WINDING INDUCTOR	100uH ±10% 3225	PCS	1	L214
0390260	SMD MAGNETIC CORE INDUCTOR	22UH±20% CDRH8D43	PCS	2	L502,L501
0390241	SMD MAGNETIC CORE INDUCTOR	10uH±20%CDRH5D18	PCS	2	L105,L511
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	13	L102,L209,L210,L212,L301,L302,L404,L405,L406,L417,L418,L428,L429
0390259	SMD MAGNETIC BEADS	FCM2012-120T2A	PCS	3	L215,L304,L503
0390142	SMD MAGNETIC BEADS	FCM1608-60IT02	PCS	9	L101,I202-I208,L213
0700007	SMD DIODE	1N4148	PCS	5	VD201,VD301-VD304
0700001	SMD DIODE	LS4148	PCS	5	VD201,VD301-VD304
0700002	SMD DIODE	LL4148	PCS	5	VD201,VD301-VD304
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	1	VD401
0680028	SMD SCHOTTKY DIODE	MBSRS340	PCS	3	VD501-VD503

0780085	SMD TRIODE	8050D	PCS	5	V304,V307,V308,V801,V802
0780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	2	V303,V305
0780197	SMD TRIODE	C1815	PCS	4	V301,V302,V310,V311
0780193	SMD TRIODE	2SK3018	PCS	2	VD102,VD103
0780115	SMD TRIODE	2SB1132	PCS	2	VD104,VD105
0780040	SMD TRIODE	3904(100-300) SOT-23	PCS	1	VD101
0790021	FIELD EFFECT TUBE	IRF7416 SOP	PCS	1	QB501
0790082	SMD FIELD EFFECT TUBE	AO3419 SOT-23	PCS	2	QB502,QB503
0570068	SMD TVS DIODE	PSD12 (12V) SOD-323	PCS	2	T1,T2
880185	IC	NJM4558M SOP	PCS	1	U301
880562	IC	4580 SOP	PCS	1	U301
880361	IC	4558 SOP	PCS	1	U301
881415	IC	HY57V641620HGT-7 TSOP	PCS	1	U202
881189	IC	MT48LC4M16A2-7 SOP	PCS	1	U202
882634	IC	MAX9702 TQFN	PCS	1	U302
882635	IC	AL1012 TSSOP	PCS	2	U501,U502
881031	IC	24C02N SOP	PCS	1	U204
882643	IC	MT1389FE/E(E VERSION) QFP	PCS	1	U201
881405	IC	BA5954FM HSOP	PCS	1	U101
881920	IC	PQ05DZ11 SC-63	PCS	2	U304,U503
882105	IC	LM393 SO8	PCS	1	U601
881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U206
2360016	RECEIVING HEAD	HS0038B3V	PCS	1	U701
960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	X201
1632646	PCB	2369-2	PCS	1	
100020	SMD RESISTOR NETWORK	1/16W100Ω±5% 8P	PCS	3	RN1,RN2,RN3
1940294	CABLE SOCKET	10P 1.0mm DUAL LINE CONTACT POINT SMD HORIZONTAL	PCS	1	XS202
1940170	SOCKET	2P 2.0mm RIGHT-ANGLED	PCS	1	XS103
1940141	SOCKET	4P2.0mm RIGHT-ANGLED	PCS	1	XS102
1940237	SOCKET	20P 0.8mm SMD	PCS	1	XS402
1940094	CABLE SOCKET	24P 0.5mm SMD WITH CLASP	PCS	1	XS101
1350062	TESTING SWITCH	DS-24	PCS	1	SW801
1310085	CLICK SWITCH	SK-42D01-PG4	PCS	1	SW401
1310083	CLICK SWITCH	SK-12D06-D2	PCS	1	SW501
1350053	TESTING SWITCH	SPVE110600	PCS	2	SW101,SW102
1870021	POWER SOCKET	DC-023	PCS	1	JK502
1980082	HEADPHONE SOCKET	ST-PE3FD00-087-102	PCS	1	JK301
1910101	AV SOCKET	PJ-327 BLACK	PCS	2	JK302,JK303
1910104	AV SOCKET	PJ-327 YELLOW	PCS	1	JK403