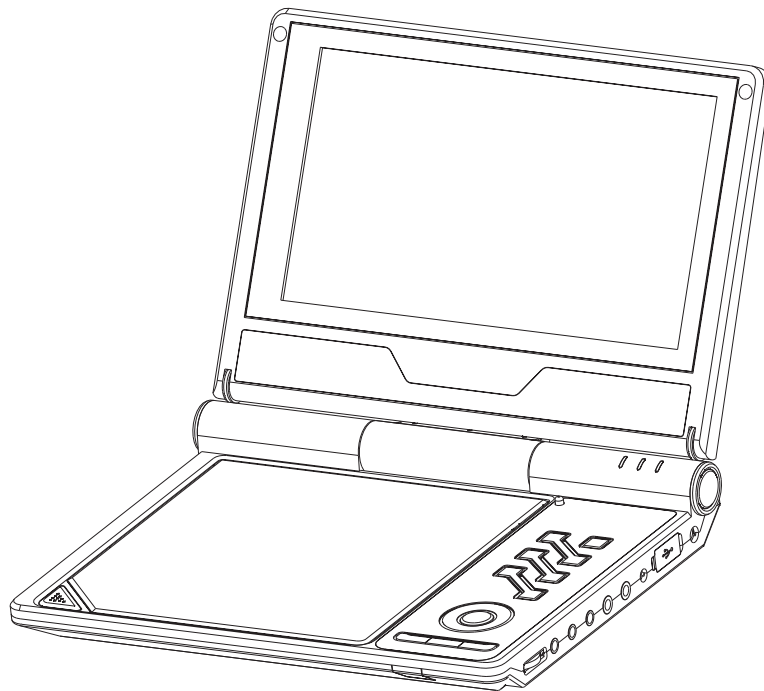


SERVICE MANUAL

DL375DC



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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.

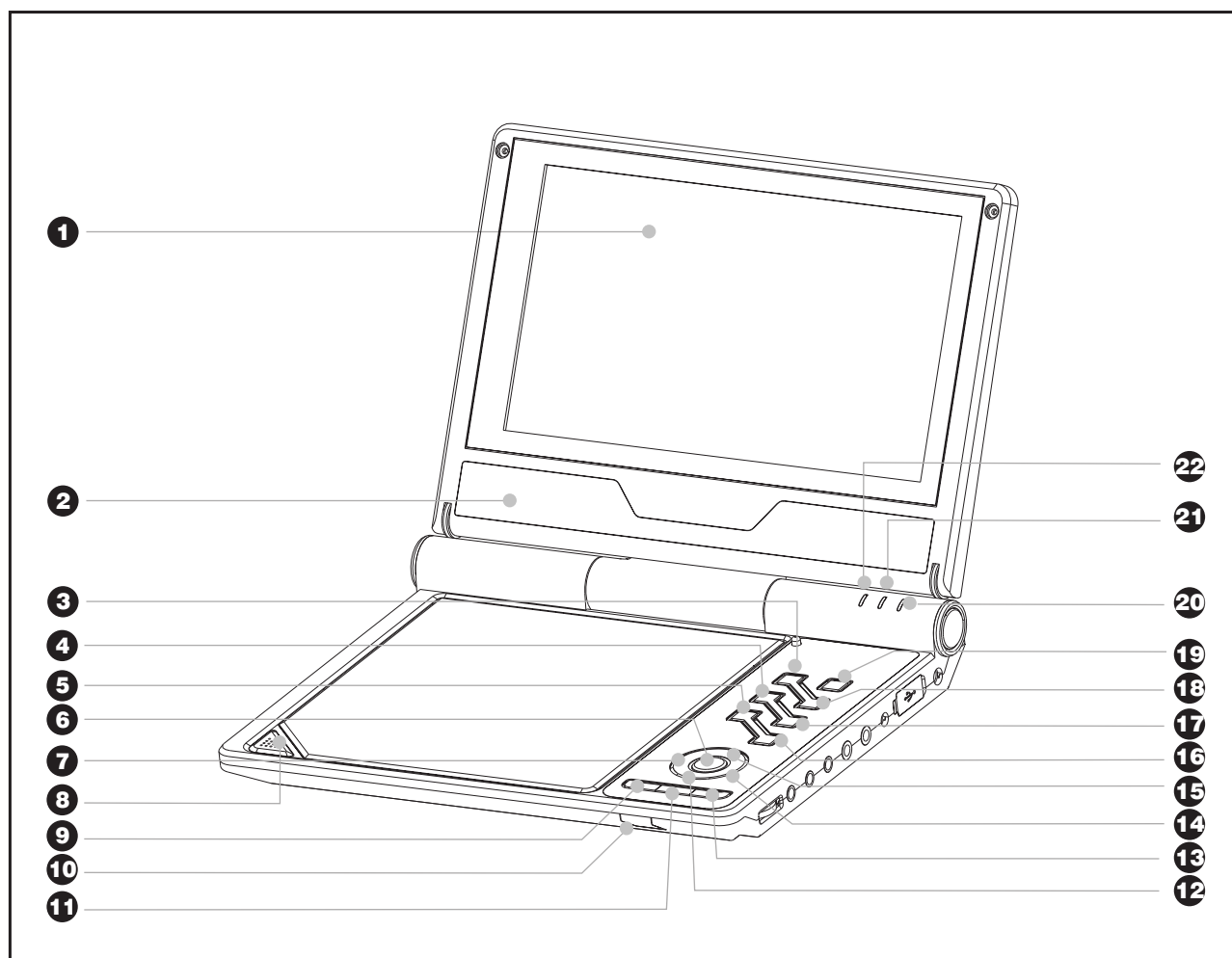
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity(ESD).

notice (1885x323x2 tiff)

IMPORTANT SAFETY NOTICE

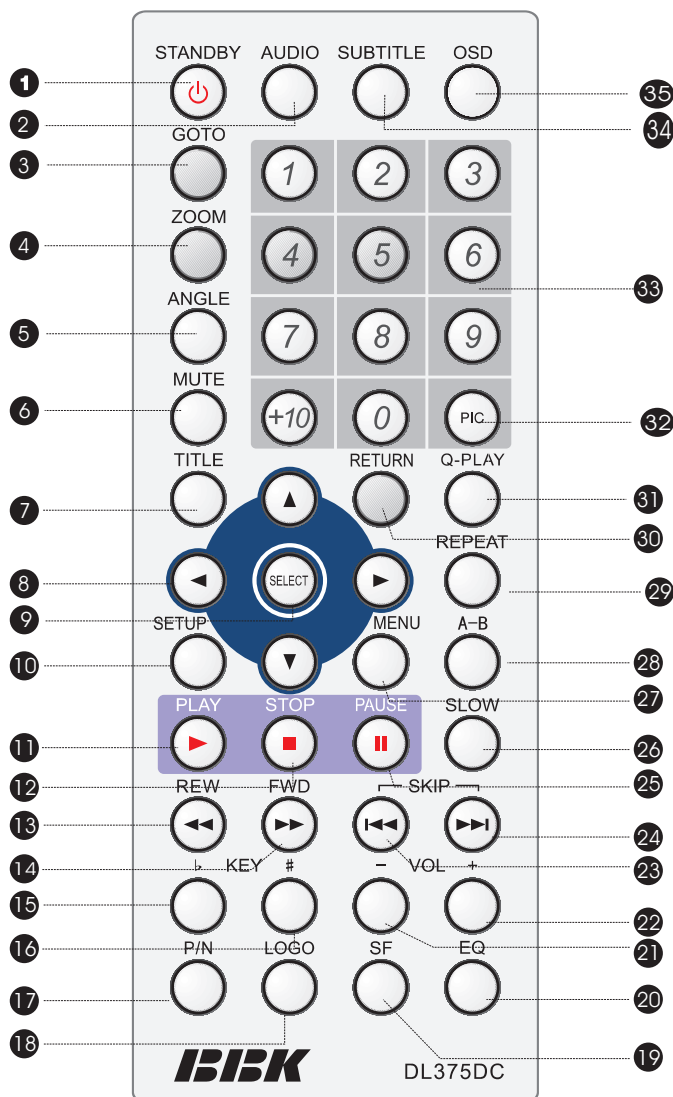
There are special components used in this equipment which are important for safety. These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire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

Control Button Locations and Explanations



- | | |
|---|---|
| 1 Color TFT LCD | 13 Keyboard/Switch Button |
| 2 Speakers | 14 NEXT button / RIGHT direction arrow |
| 3 DVD/AV INPUT button | 15 STOP button / UP direction arrow |
| 4 PICTURE button | 16 MENU Button |
| 5 SETUP button | 17 Browser Button |
| 6 PLAY button / SELECT button | 18 LOGO Button |
| 7 PREV button / LEFT direction arrow | 19 DVD/READER Button |
| 8 OPEN/CLOSE button | 20 AV INPUT indicator light |
| 9 REW button | 21 READER indicator light |
| 10 IR sensor | 22 DVD indicator light |
| 11 FWD button | |
| 12 PAUSE button / DOWN direction arrow | |

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 STANDBY Button**
Press once to stand by, Press twice to play.
- 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 LOGO Button**
Set the played image as the power-on logo.
- 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 Button**
Pause 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

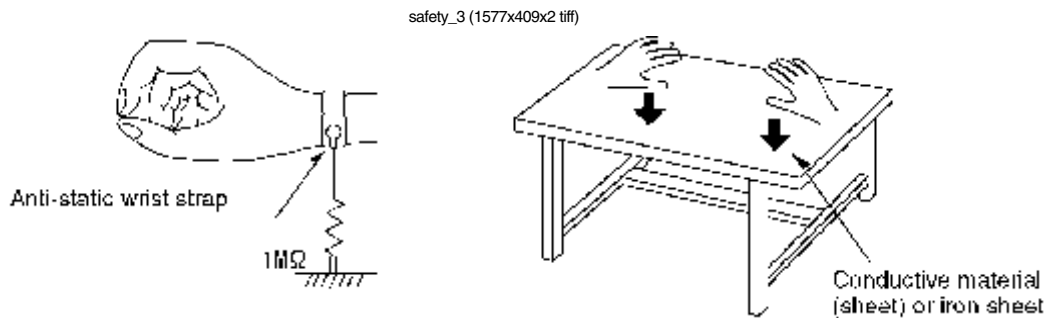
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

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

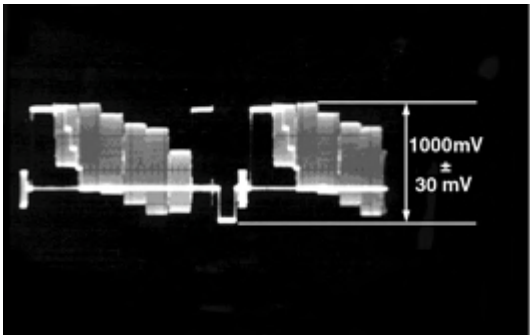
5.1. Video Output (Luminance Signal) Confirmation

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



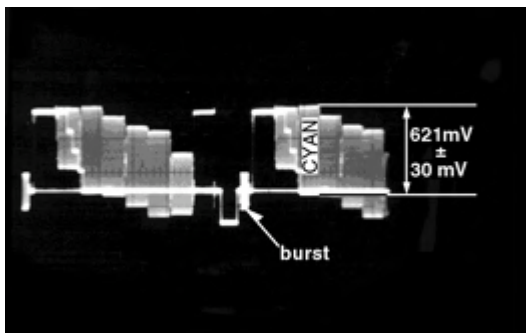
5.2 Video Output(Chrominance Signal) Confirmation

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	

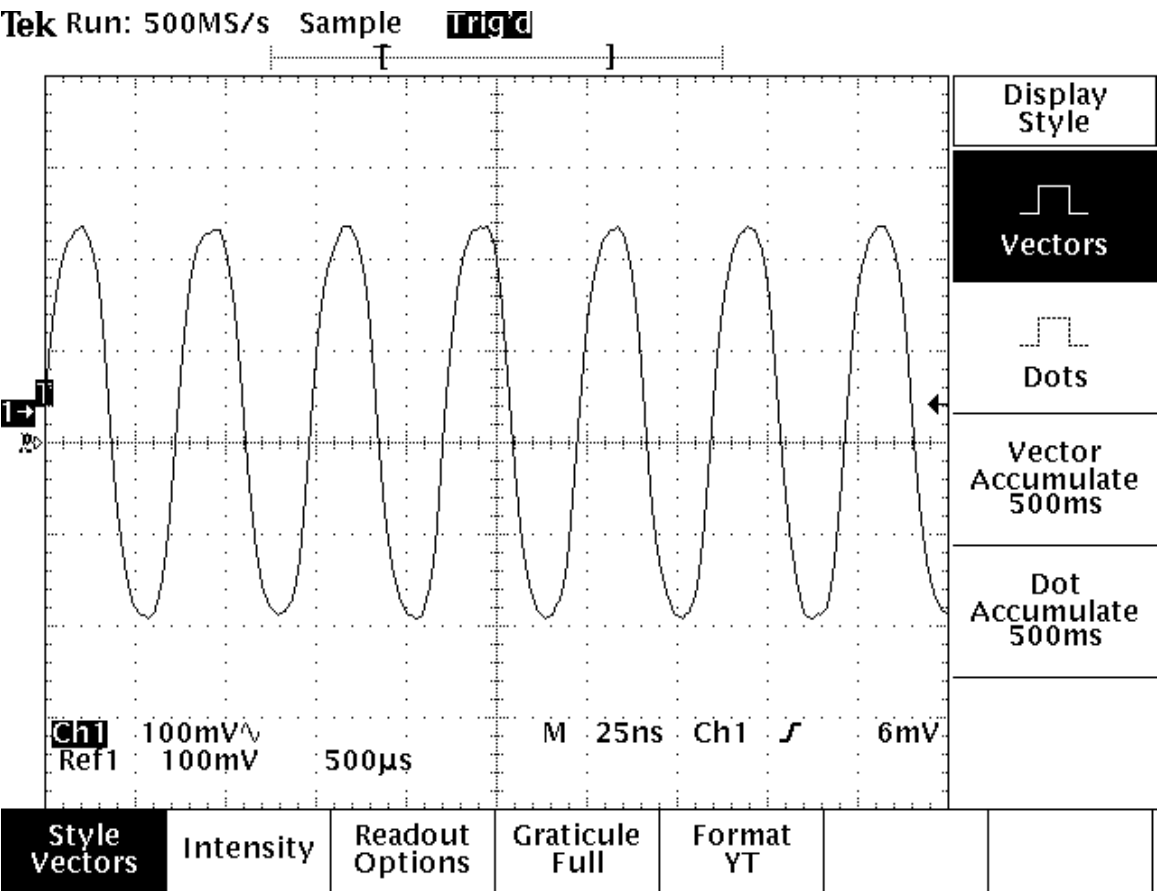
Purpose:To maintain video signal output compatibility.

- 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

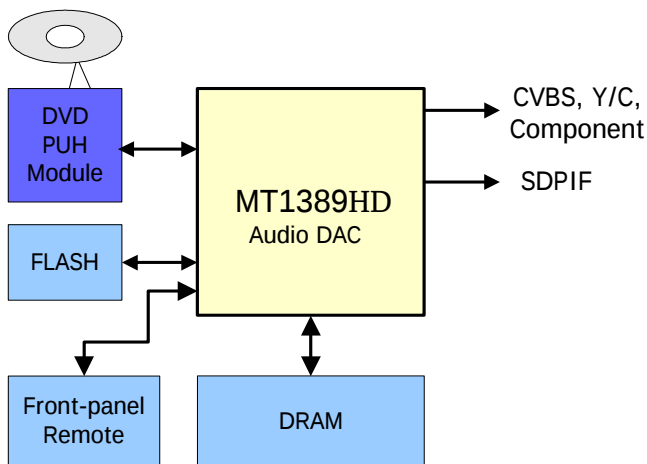
Progressive-Scan DVD Player SOC

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

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

IC BLOCK DIAGRAM & DESCRIPTION

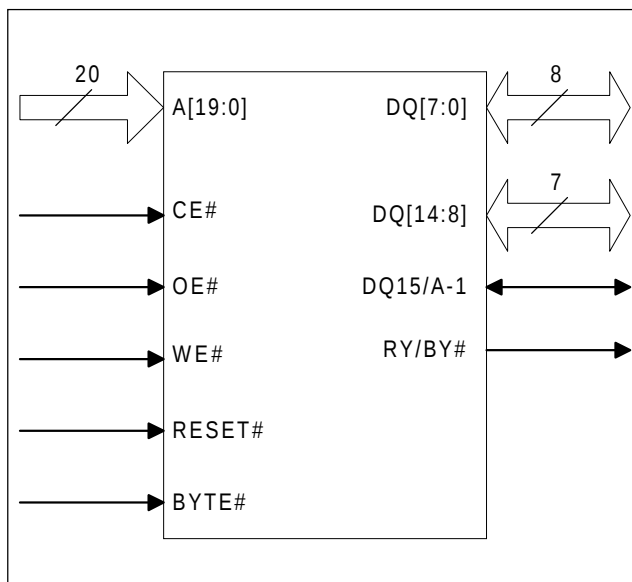


HY29LV160
16 Mbit (2M x 8/1M x 16) Low Voltage Flash Memory

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

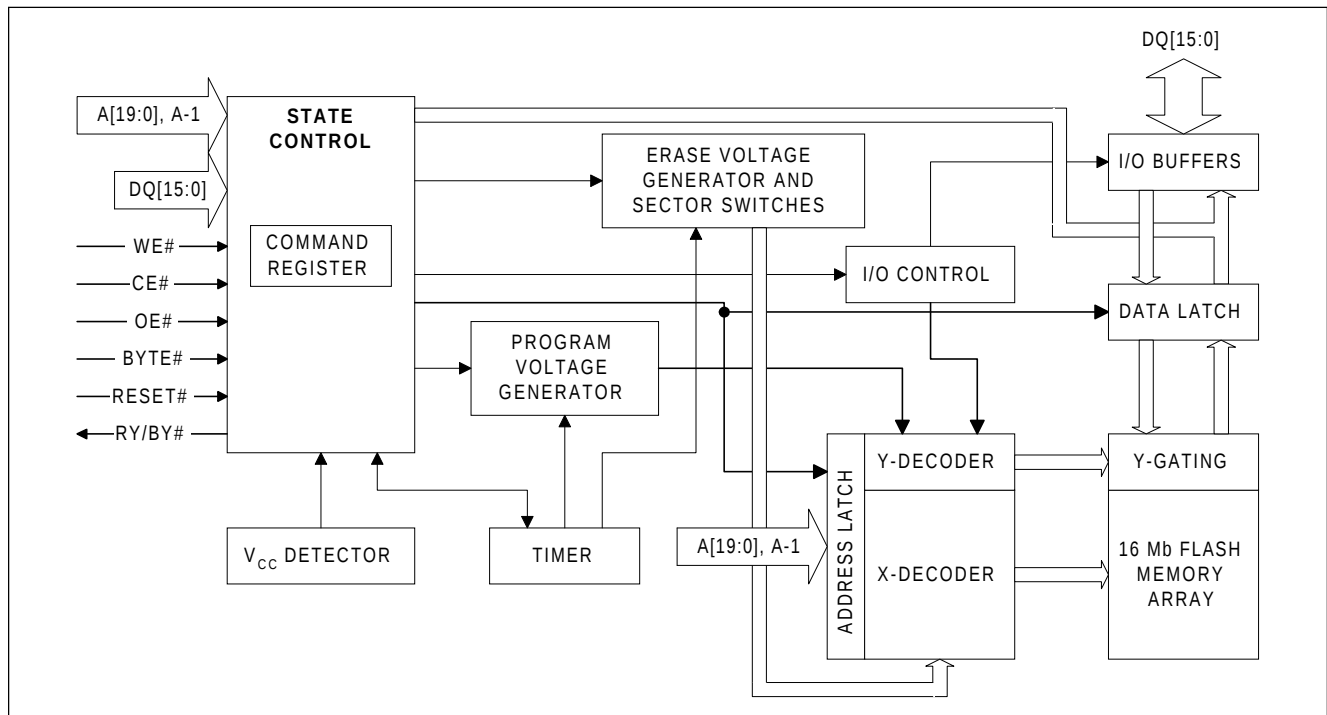


IC BLOCK DIAGRAM & DESCRIPTION

HY29LV160



BLOCK DIAGRAM



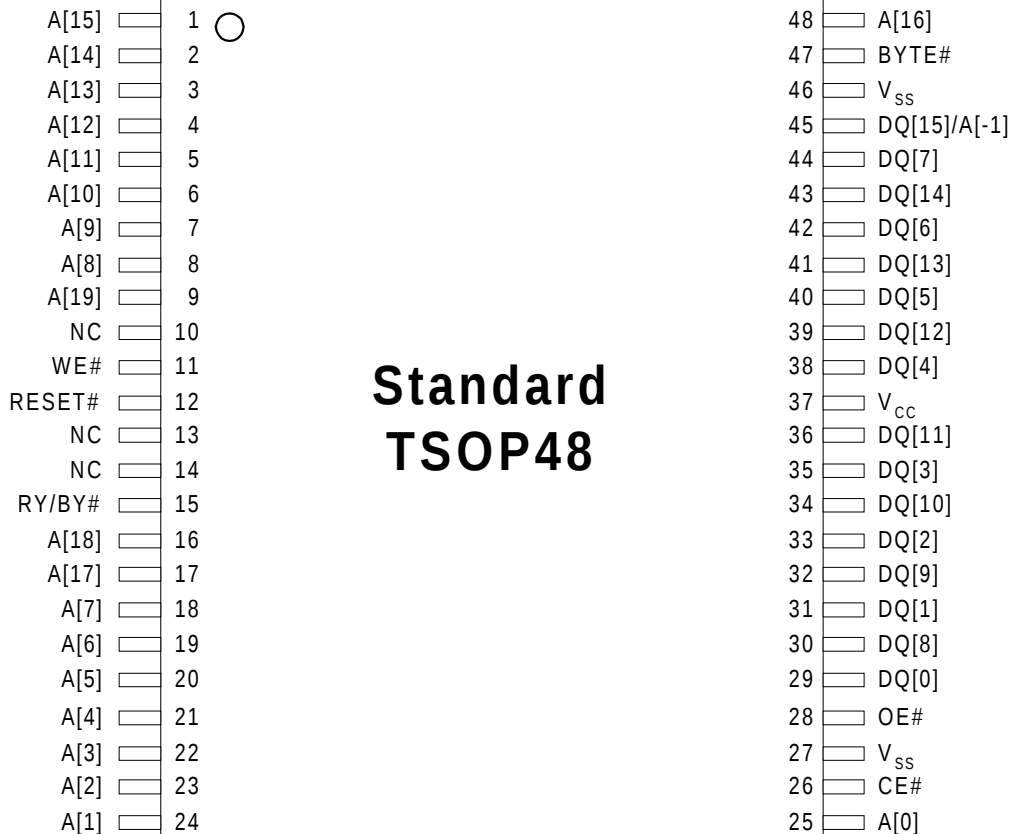
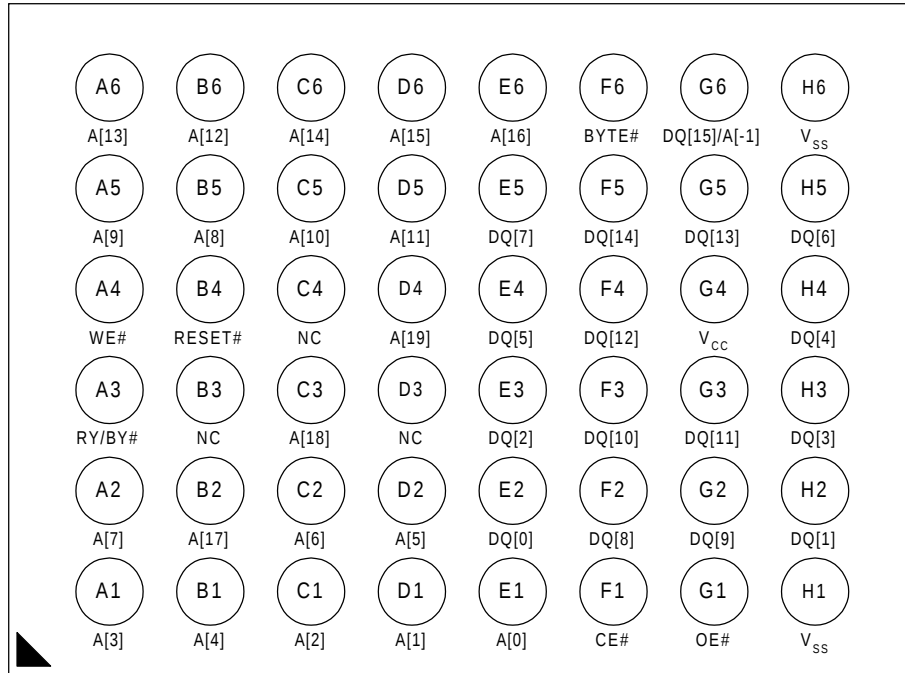
SIGNAL DESCRIPTIONS

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.

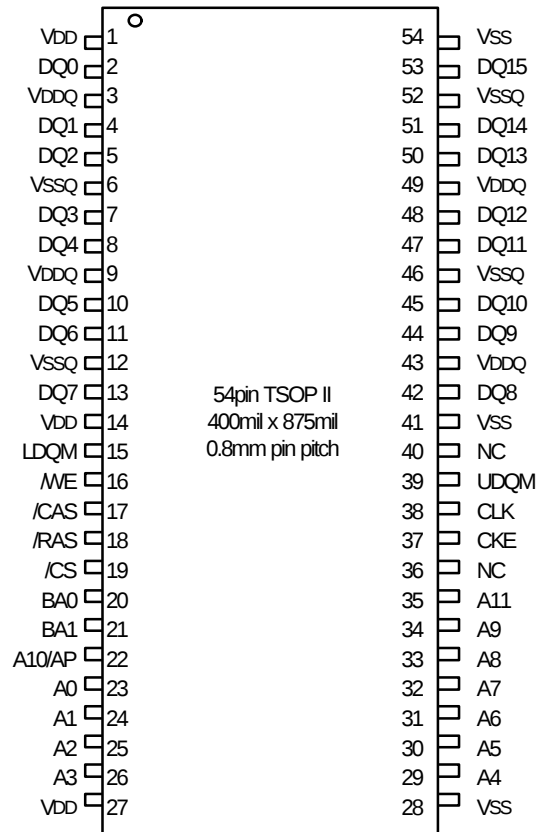
HY57V641620HG is offering fully synchronous operation referenced to a positive edge of the clock. All inputs and outputs are synchronized with the rising edge of the clock input. The data paths are internally pipelined to achieve very high bandwidth. All input and output voltage levels are compatible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

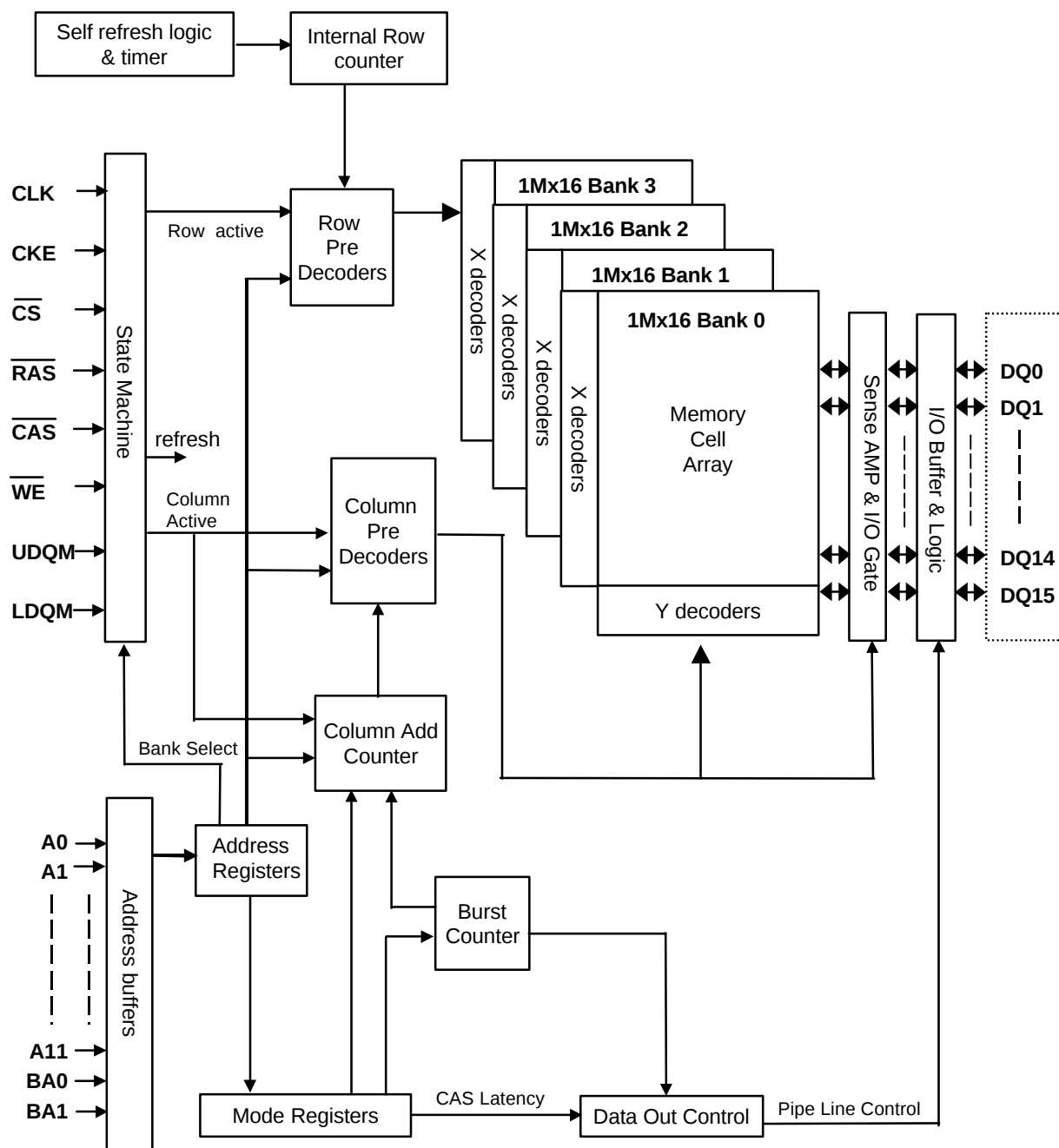


PIN DESCRIPTION

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

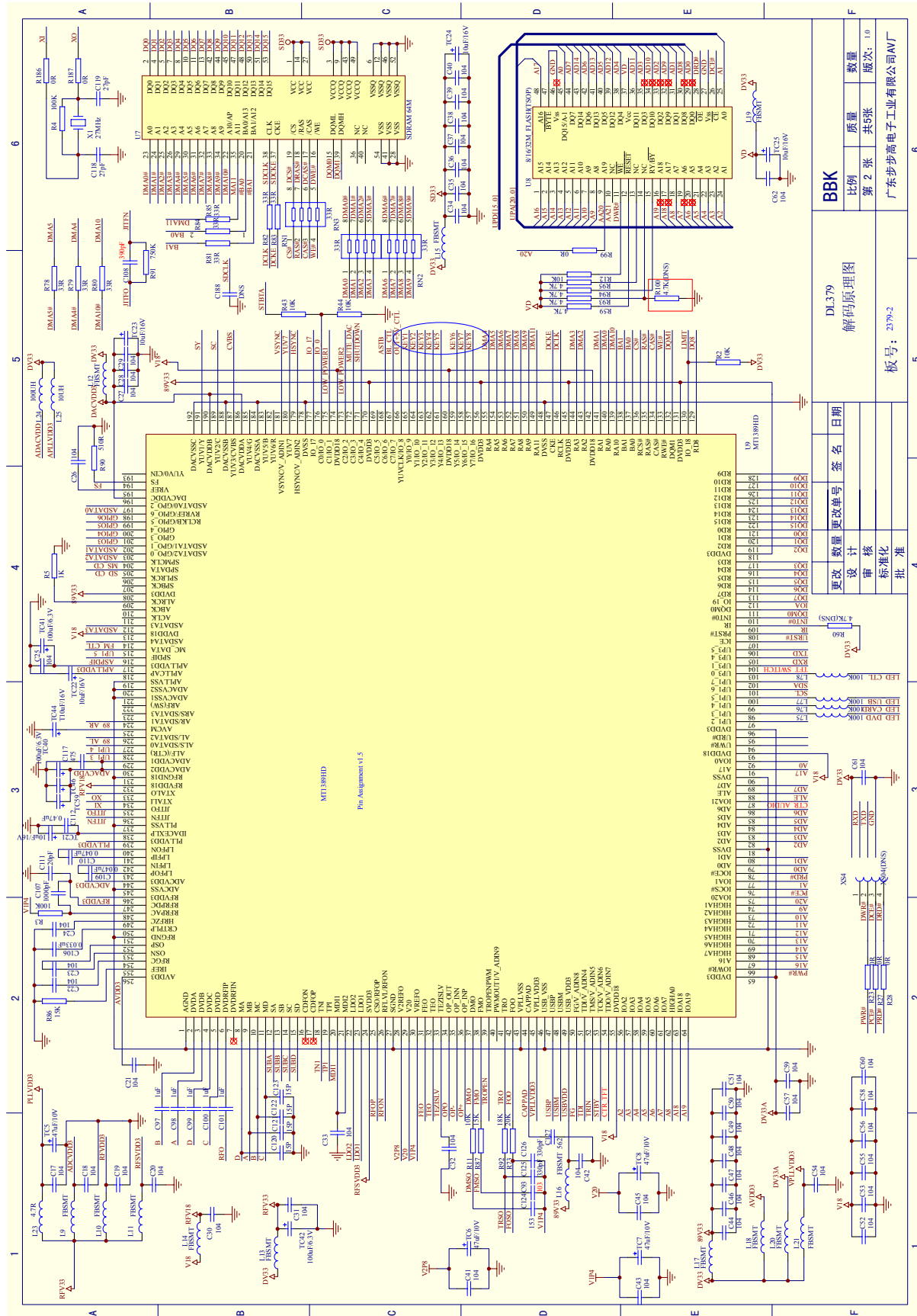
FUNCTIONAL BLOCK DIAGRAM

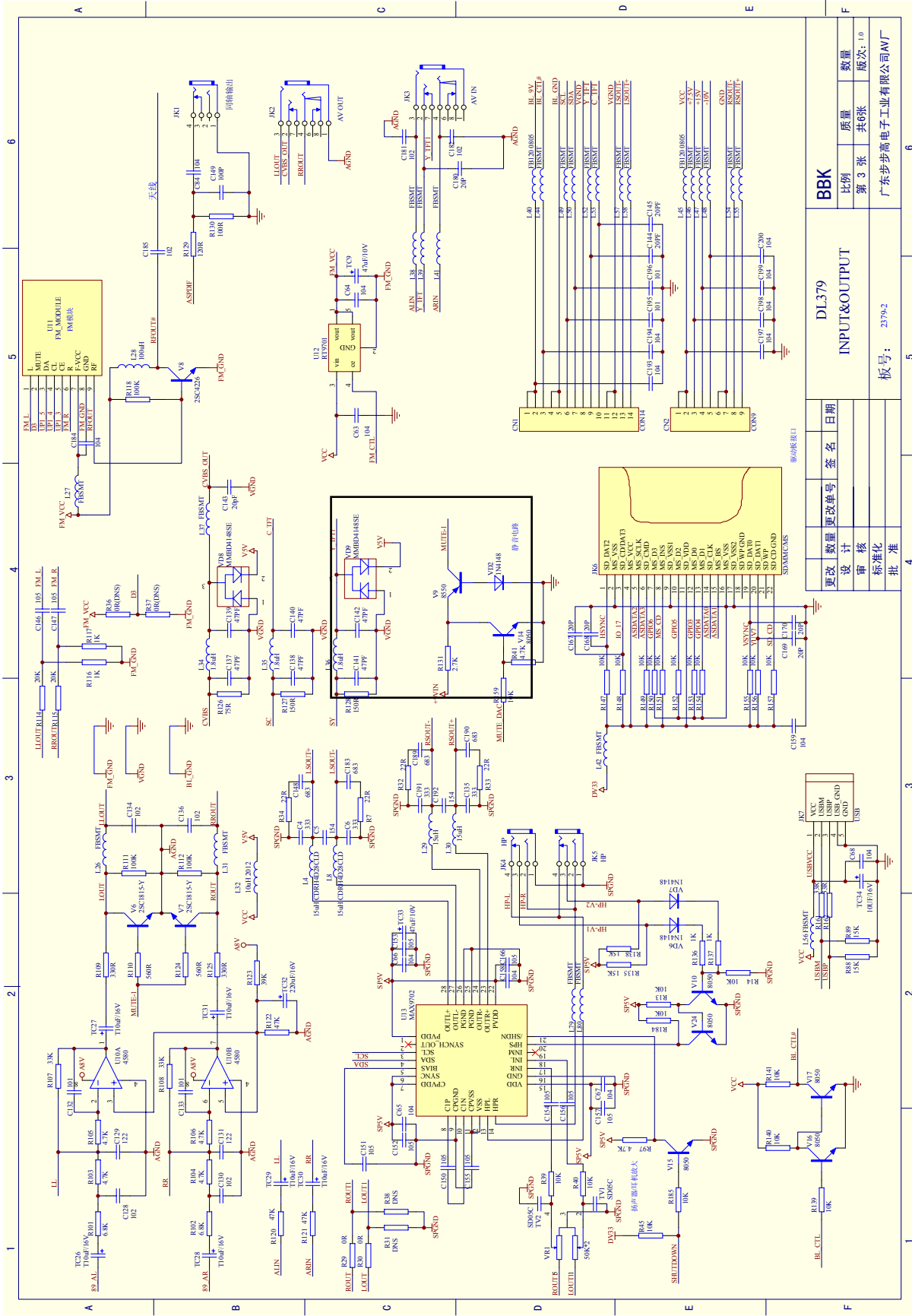
1Mbit x 4banks x 16 I/O Synchronous DRAM



DECODE BOARD





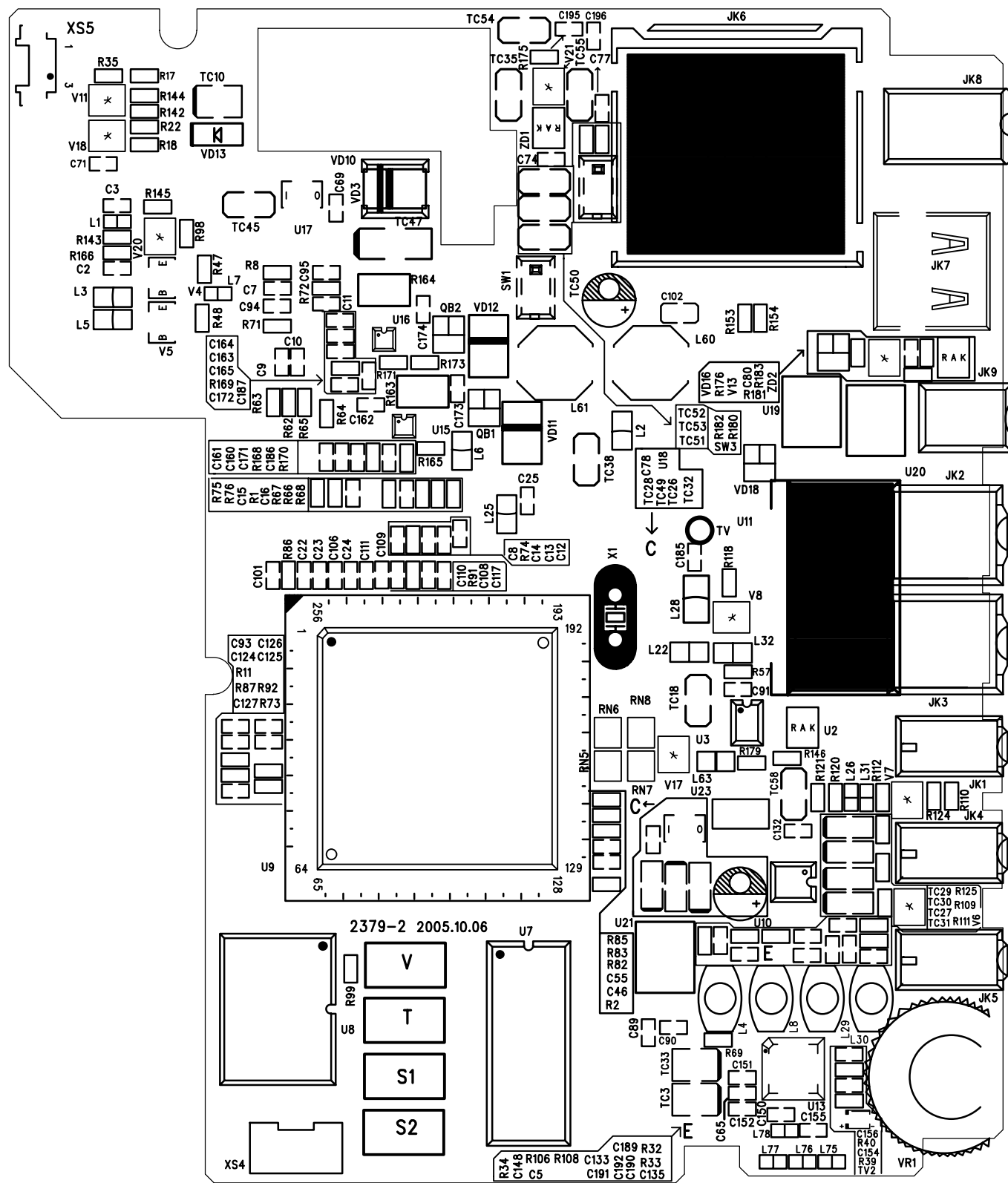


更改	数量	更改单号	签名	日期
设计				
审核				
标准化				
批准				

DL379		BBK	
INPUT&OUTPUT			
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第 3 张	共6张	版次: 1.0	

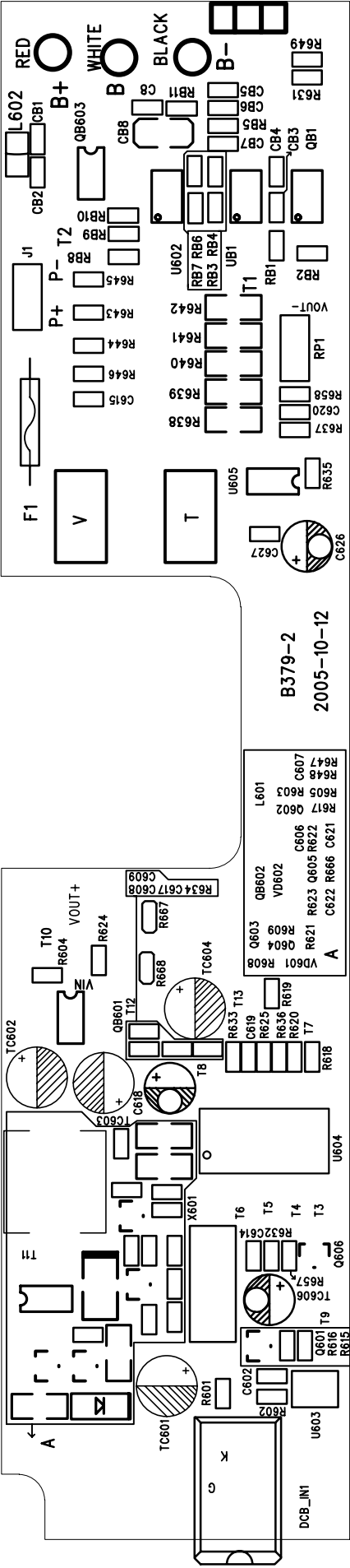
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DECODE BOARD





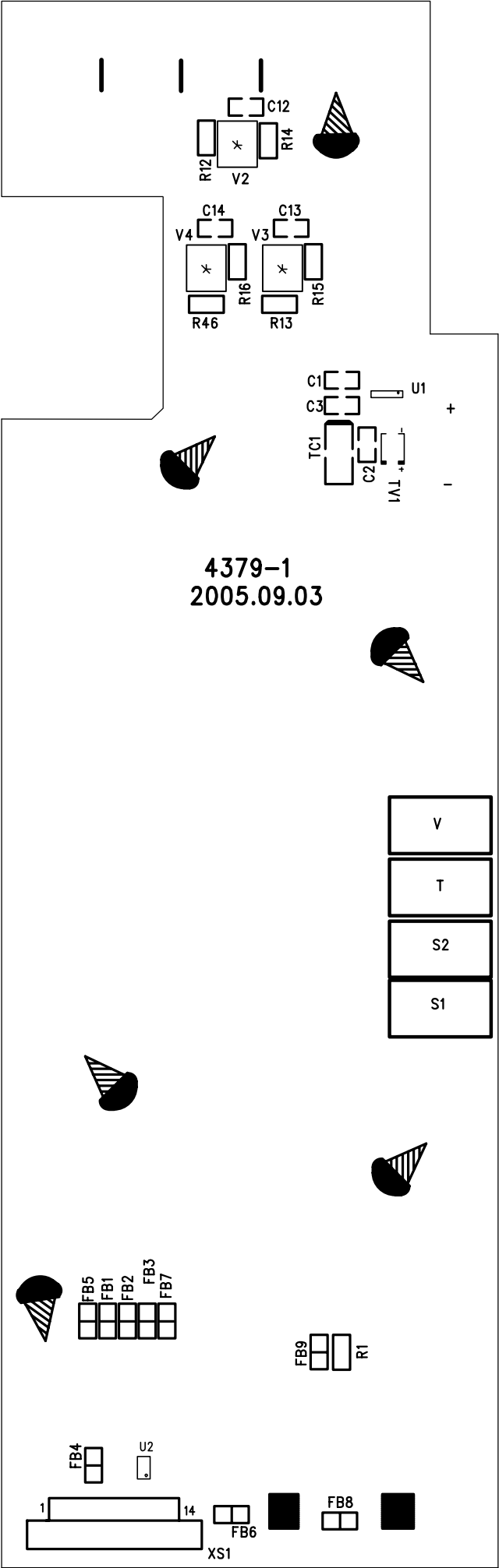




B379-2
2005-10-12



MAIN FRONT PANEL



LCD DRIVE BOARD

AV 7" Interf

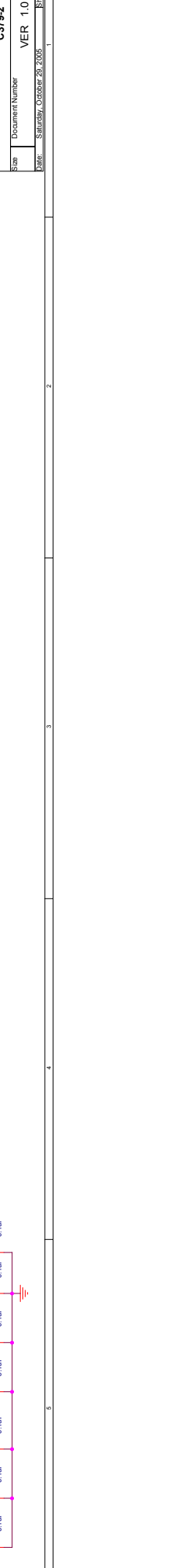
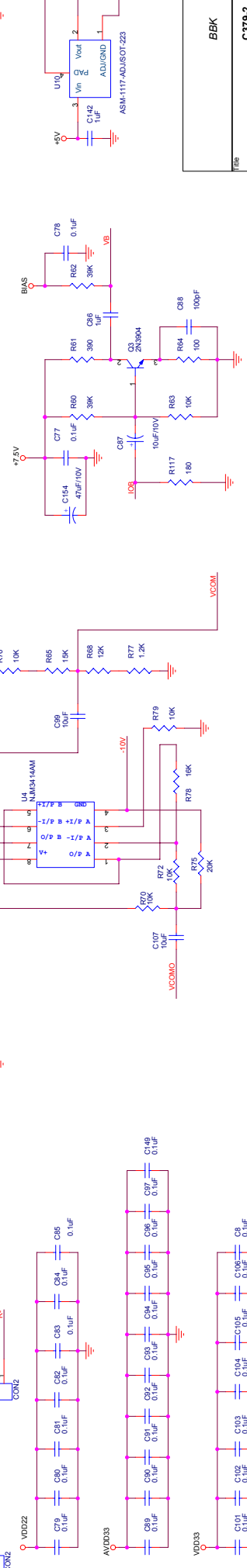
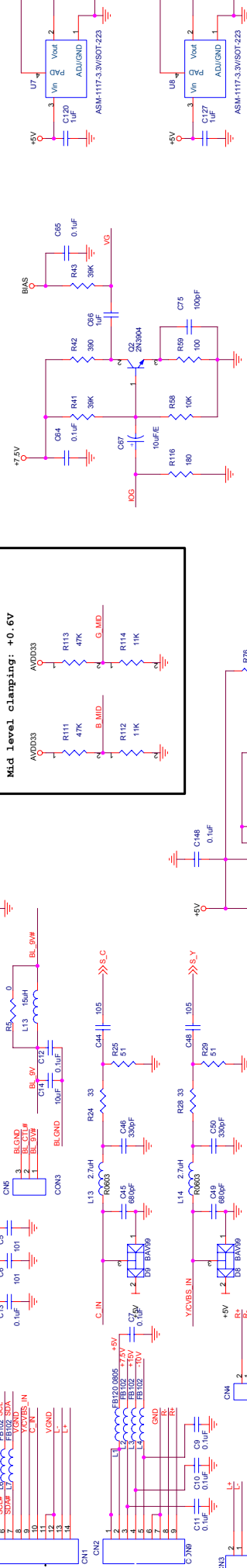
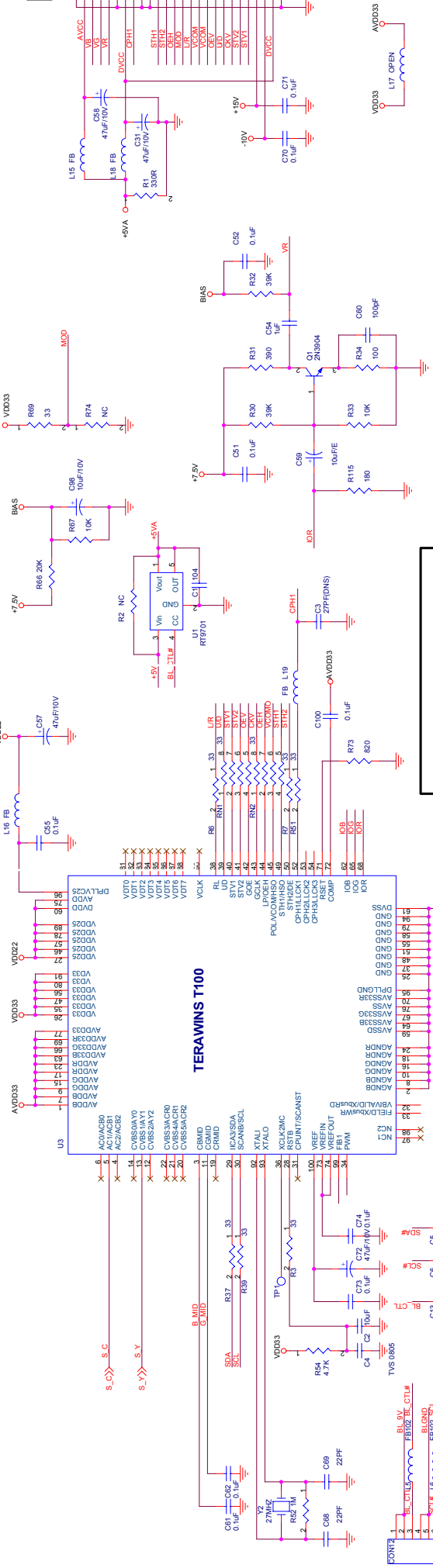
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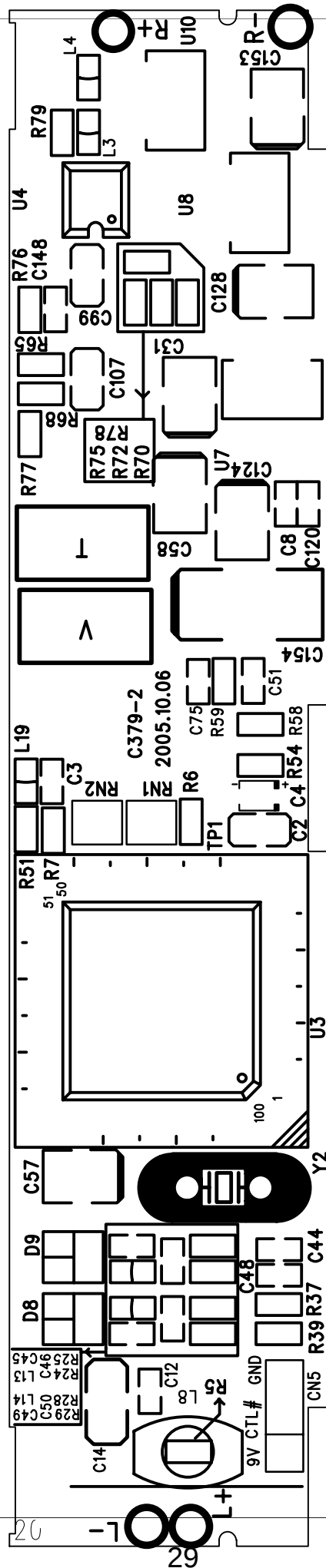
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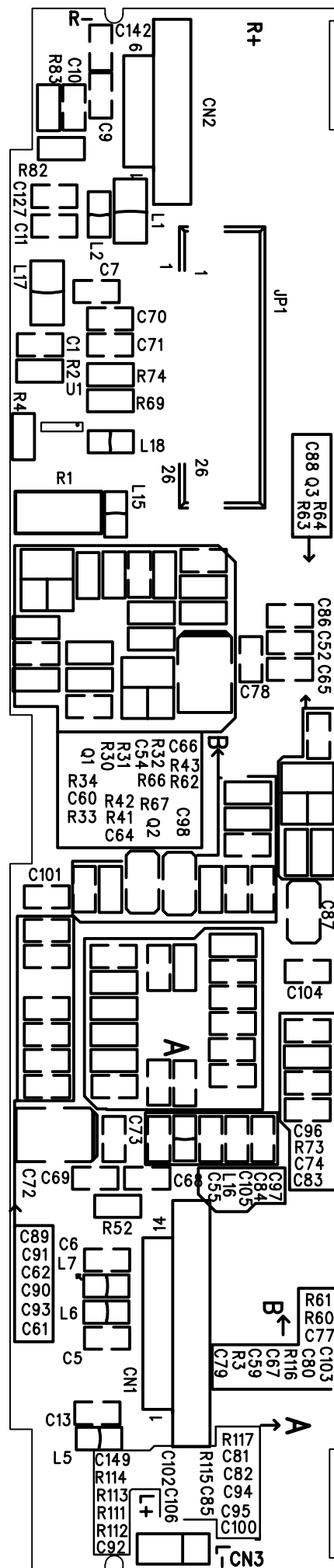
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LCD DRIVE BOARD



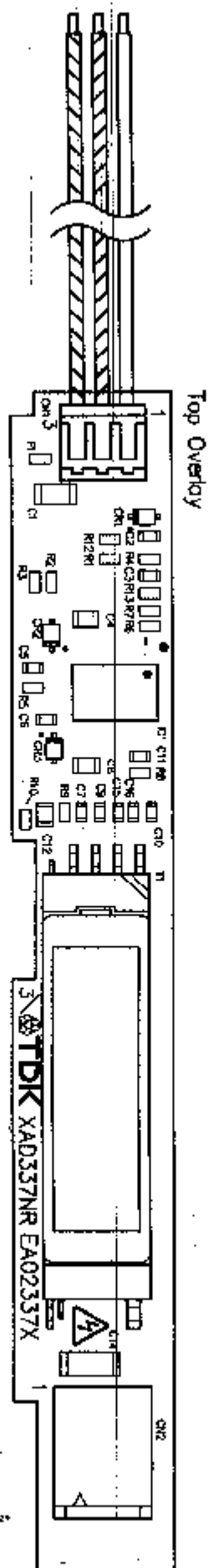


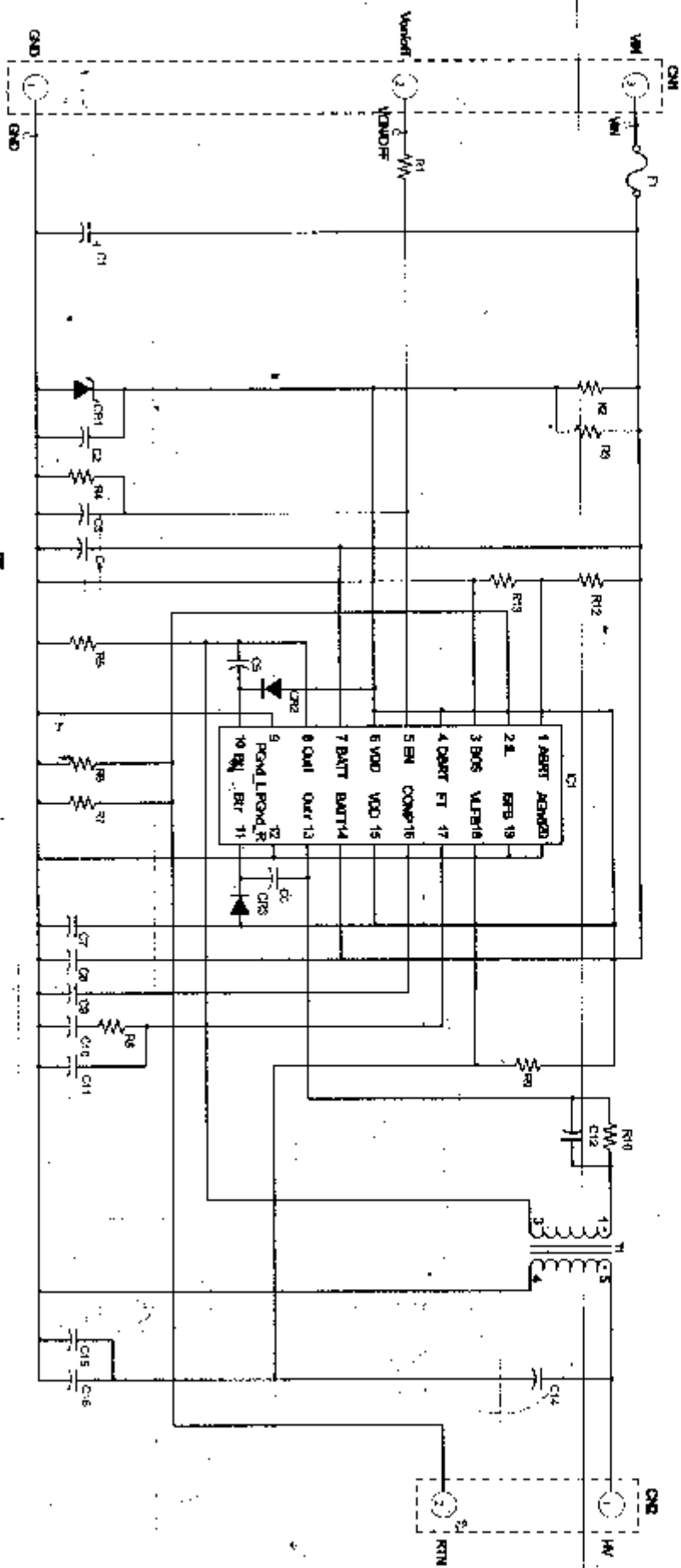
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337X							
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C2	C1608X7R1C105KT000N OR C1608X5R1C105KT000N	CAPACITOR	1	IN30210602 IN30205102	TDK TDK		
C3	C1608X7R1C104KT000N OR C1608X7R1E104KT000N	CAPACITOR	1	IN01618601 IN01618702	TDK TDK		
C4	C2012X7R1C105KT000N OR C2012X7R1E105KT000N	CAPACITOR	1	IN30652203 IN30626701	TDK TDK		
C5	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C6	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C7	C1608X7R1C105KT000N OR C1608X5R1C105KT000N	CAPACITOR	1	IN30210602 IN30205102	TDK TDK		
C8	C2012X7R1C105KT000N OR C2012X7R1E105KT000N	CAPACITOR	1	IN30652203 IN30626701	TDK TDK		
C9	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
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C11	C1608X7R1E103KT000N OR C1608X7R1H103KT000N	CAPACITOR	1	IN01605301 IN01603601	TDK TDK		
C12	C2012X7R1C225KT000N OR C2012X5R1C225KT000N	CAPACITOR	1	IN30626301 IN30636701	TDK TDK		
C14	CG1808N100J302T OR 302R29N100JV4E OR C4520C0G3F100FT000N	CAPACITOR	1	NS13041 NS13005 IN58805301	HSE JOHANSON TDK		
C15	C1608X7R1E332KT000N OR C1608X7R1H332KT000N	CAPACITOR	1	IN01681001 IN01604201	TDK TDK		
C16	C1608X7R1H681KT000N OR C1608X7R1H681JT000N	CAPACITOR	1	IN01671401 IN01676001	TDK TDK		
CN1	4EU02337X-01	CABLE	1		TDK		
CN2	87210-020L OR 4100-E02N-00R	CONNECT	1	NS43272 NS43225N	ACES E&T		
CR1	UDZSTE-17 5.1B OR UDZ5V1B-7-F	DIODE	1	NS25016 NS25350	ROHM DIODES		
				TITLE: ELECTRICAL PARTS LIST			
				MODEL: XAD337NR			
				DESIGNED	Ming Lu	DATE	08/04/05
				DRAWN	Ming Lu		08/04/05
				PARTSCKE	John La		8/4/05
				CHECKED	Hoichu Lin		8/4/05
				APPVD.	Wendy Gu		8/4/05
				DWG. NO. 4CA01337X			
				PAGE 1/3			
REV. DATE DESCRIPTION DRAWN APV.				DATE			
TDK XIAMEN CO., LTD. POWER MFG. DEPT. 321-339, Tongji South RD., Jimei Dist., Xiamen, Fujian, P.R.China				8/6/05			

PARTS LIST

IDX. CD.		XAD337NR							
337X									
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%	CR3	1SS355-TE17 OR 1N4148WS-7-F	DIODES	1	NS25013 NS25298W	ROHM DIODES			
&	F1	F0603FA2000V032T	FUSE	1	NS52084	AEM			
%	IC	MP1026EF-LF OR MP1026EM-LF	IC	1	NS35134	MPS MPS			
	T1	TDK U18.5-X18	TRANSFORME	1	NS42105M	MTI GUANN JYE TDK			
&	PB1	3EA02337X-3B	P.W.B	1		MILKY-WAY S.H.			
	R1	RC0603FRF10KL OR RMC16P1002F	RESISTOR	1	NS061164N NS06494	YAGEO KAMAYA			
	R2	RC0603FRF1KL OR RMC16P1001F	RESISTOR	1	NS061160N NS06502	YAGEO KAMAYA			
	R3	RC0603FRF1KL OR RMC16P1001F	RESISTOR	1	NS061160N NS06502	YAGEO KAMAYA			
	R4	RC0603FRF100KL OR RMC16P1003F	RESISTOR	1	NS061157N NS06514	YAGEO KAMAYA			
	R5	RC0603FRF3.3KL OR RMC16P3301F	RESISTOR	1	NS061197N NS06505	YAGEO KAMAYA			
	R6	RC0603FRF430RL OR RMC16P4300F	RESISTOR	1	NS061245N NS06652	YAGEO KAMAYA			
	R7	RC0603FRF1KL OR RMC16P1001F	RESISTOR	1	NS061160N NS06502	YAGEO KAMAYA			
	R8	RC0603FRF100KL OR RMC16P1003F	RESISTOR	1	NS061157N NS06514	YAGEO KAMAYA			
	R9	RC0603FRF300KL OR RMC16P3003F	RESISTOR	1	NS061176N NS06527	YAGEO KAMAYA			
	R10	RC0603FRF1KL OR RMC16P1001F	RESISTOR	1	NS061160N NS06502	YAGEO KAMAYA			
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					MODEL:	XAD337NR			
					DESIGNED		DATE / /		
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321-339, Tongji South RD., Jimei Dist., Xiamen,				/ /		4CA01337X		2/3	
Fujian, P.R.China									

[illegible]



No.		圖號 - DRAWING NO.		零件 - PART NAME		物料 - MATERIAL		處理 - TREATMENT		處理人 - CHAMK	
2221		DISKIN		Ming Lin		5 74 DATE 08/04/05 TIME		SCHEMATIC DIAGRAM		1.4 - 10X CL	
2222		DRAWING		Freddy Huang		11 4 DATE 08/04/05 TIME		XAD337NR		337X	
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2364		APPROV		Michael Ho		153 41 DATE 08/04/05 TIME					
2365		APPROV		Michael Ho		154 41 DATE 08/04/05 TIME					
2366		APPROV		Michael Ho		155 41 DATE 08/04/05 TIME					
2367		APPROV		Michael Ho		156 41 DATE 08/04/05 TIME					
2368		APPROV		Michael Ho		157 41 DATE 08/04/05 TIME					
2369		APPROV		Michael Ho		158 41 DATE 08/04/05 TIME					
2370		APPROV		Michael Ho		159 41 DATE 08/04/05 TIME					
2371		APPROV		Michael Ho		160 41 DATE 08/04/05 TIME					
2372		APPROV		Michael Ho		161 41 DATE 08/04/05 TIME					
2373		APPROV		Michael Ho		162 41 DATE 08/04/05 TIME					
2374		APPROV		Michael Ho		163 41 DATE 08/04/05 TIME					
2375		APPROV		Michael Ho		164 41					

9.DL375DC ATERIAL LIST

DL375DC MATERIAL LIST

1. DRIVE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
0090005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	7	R37,R39,R69,R6,R7,R24,R28
0390414	SMD MAGNETIC CORE INDUCTOR	15UH ±25% CDRH4D28C/LD	PCS	1	L8
0310654	SMD CERAMIC CAPACITOR	25V 106 +80%-20% Y5V 1206	PCS	2	C14,C98
0090220	SMD RESISTOR	1/16W 51Ω ±5% 0603	PCS	2	R25,R29
0090007	SMD RESISTOR	1/16W 180 Ω ±5% 0603	PCS	3	R115,R116,R117
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	3	R34,R59,R64
90232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	1	R83
0090008	SMD RESISTOR	1/16W 220Ω ±5% 0603	PCS	1	R51
0090234	SMD RESISTOR	1/16W 390Ω ±5% 0603	PCS	3	R31,R42,R61
0090235	SMD RESISTOR	1/16W 820Ω ±5% 0603	PCS	1	R73
0090626	PRECISION SMD RESISTOR	1/16W 200Ω±1% 0603	PCS	1	R82
0090015	SMD RESISTOR	1/16W 1.2K ±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	10	R33,R58,R63,R67,R70,R72,R76,R79,R4,R3
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	1	R65
0090315	SMD RESISTOR	1/16W 16K±5% 0603	PCS	1	R78
0090187	SMD RESISTOR	1/16W 12K ±5% 0603	PCS	1	R68
0090502	PRECISION SMD RESISTOR	1/16W11K±1% 0603	PCS	2	R112,R114
90025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	2	R75,R66
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	6	R30,R41,R60,R32,R43,R62
0090465	PRECISION SMD RESISTOR	1/16W 47K±1% 0603	PCS	2	R111,R113
0090109	SMD RESISTOR	1/16W 1MΩ ±5% 0603	PCS	1	R52
0090127	SMD RESISTOR	1/8W 330 Ω ±5% 1206	PCS	1	R1
0100019	SMD RESISTOR NETWORK	1/16W33Ω ±5% 8P	PCS	2	RN1,RN2
310389	SMD CAPACITOR	10V 106 +80%-20% Y5V 0805	PCS	6	C59,C67,C87,C99,C2,C107
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	7	C31,C57,C58,C72,C124,C128,C153
0310375	SMD TANTALUM CAPACITOR	16V100UF±20% 7343(D)	PCS	1	C154
0310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	2	C68,C69
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	5	C60,C75,C88,C5,C6
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	2	C46,C50
0310054	SMD CAPACITOR	50V 681 ±5% NPO 0603	PCS	2	C45,C49
0310594	SMD CAPACITOR	25V 104±10% X7R 0603	PCS	46	C7~C13,C51,C52,C55,C61,C62,C64,C65,C70,C71 ,C73,C74,C77,C78,C79,C80,C81,C82,C83,C84,C8 5,C89,C90,C91,C92,C93,C94,C95,C96,C97,C100, C101,C102,C103,C104,C105,C106,C148,C149,C1
0310234	SMD CAPACITOR	16V 105 +80%-20% Y5V 0603	PCS	8	C54,C66,C86,C120,C127,C142,C48,C44
0390189	SMD INDUCTOR	2.7UH ±10% 1608	PCS	2	L13,L14
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	10	L15,L16,L18,L19,L2~L7
0390259	SMD MAGNETIC BEADS	FCM2012-120T2A	PCS	1	L1
780040	SMD TRIODE	3904(100-300) SOT-23	PCS	3	Q1,Q2,Q3
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	2	D8,D9
0881539	IC	NJM3414AM SOP	PCS	1	U4
0881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U10
0882114	IC	AMS1117-3.3 SOT-223	PCS	2	U7,U8
0881914	IC	RT9701CB SOT25	PCS	1	U1
0882869	IC	T100A LQFP	PCS	1	U3
1632744	PCB	C379-2	PCS	1	
1940194	CABLE SOCKET	26P 0.5mm SMD WITH CLASP	PCS	1	JP1
1940296	SOCKET	9P 0.8mm SMD	PCS	1	CN2
1940290	SOCKET	14P 0.8mm SMD	PCS	1	CN1
0960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	Y2

2. CHARGING BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
0090536	SMD RESISTOR	1/8W0.27 Ω ±5% 1206	PCS	5	R638,R639,R640,R641,R642
0090003	SMD RESISTOR	1/16W 10Ω ±5% 0603	PCS	1	R609
90171	SMD RESISTOR	1/8W 1K ±5% 1206	PCS	1	R608
0090135	SMD RESISTOR	1/8W 100Ω ±5% 1206	PCS	2	R647,R648

0090011	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
5234357	PVC PIECE	23.7×15.4×0.8 WITHOUT GLUE IN REAR SIDE	PCS	1	
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
310188	SMD CAPACITOR	50V 10P ±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
0260636	CD	CD11E 16V47U ±20% 5×5 2	PCS	3	C618,C626,TC606
0260568	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
780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	1	Q604
0680028	SMD SCHOTTKY DIODE	MBRS340	PCS	1	VD602
0700007	SMD DIODE	1N4148	PCS	1	VD601
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
0882692	IC	S3F9454 SOP(379R/G)	PCS	1	U604
0881535	IC	S8232 SOP	PCS	1	UB1
0390259	SMD MAGNETIC BEADS	FCM2012-120T2A	PCS	1	L602
0880176	IC	LM358M SOP	PCS	1	U605
0882322	IC	AZ431-2.5V SOT-23	PCS	1	U603
0620032	DUAL COLOR LIGHT RADIATION DIODE	2RG 59SW RED/GREEN 2×5×7	PCS	1	LED601
0960245	SMD CRYSTAL OSCILLATOR	8.00MHz ±20ppm 49-S	PCS	1	X601
1870021	POWER SOCKET	DC-023	PCS	1	DCB_IN1
1860044	BATTERY CONNECTOR	4P2.5MM LIN-0402-040-100	PCS	1	JK601
2310004	FUSE	F5A 125V	PCS	1	F1
1632746	PCB	B379-2	PCS	1	

3. MAIN PANEL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	3	R14-R16
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	3	R12,R13,R46
0310594	SMD CAPACITOR	25V 104 ±10% X7R 0603	PCS	6	C1-C3,C12-C14
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	9	FB1-FB9
780085	SMD TRIODE	8050D	PCS	3	V2-V4
0881914	IC	RT9701CB SOT25	PCS	1	U1
0310390	SMD TANTALUM CAPACITOR	16V10U ±20% 3216	PCS	1	TC1
0620182	LIGHR RADIATION DIODE	3B 3PD BLUE	PCS	1	D11
0620183	LIGHR RADIATION DIODE	3G 3PD GREEN	PCS	1	D12
0620184	LIGHR RADIATION DIODE	3O 3PD ORANGE	PCS	1	D13
1940290	SOCKET	14P 0.8mm SMD	PCS	1	XS1
1632654	PCB	4379-1	PCS	1	

4. SMALL BUTTONS BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTIT	LOCATION
0310594	SMD CAPACITOR	25V 104 ±10% X7R 0603	PCS	2	C1,C2

1632745	PCB	F379-1	PCS	1	

5. CAR POWER ADAPTOR

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	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 Φ4.0DCPLUG	PCS	1	P+,P-
5232167	FIBRE TUBING	Φ1 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 HEAD	AK008	PCS	1	
3630186	SHRAPNEL	AK008	PCS	2	
3810034	SPRING	AK008	PCS	1	
3870756	FUSE HOLDER	AK008	PCS	1	
3060299	CONTACT HEAD COVER	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	

6. POWER ADAPTOR

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
3031674	BATTERY CASE UPPER COVER	DL369 WHITE	PCS	1	
3041272	BATTERY CASE LOWER COVER	DL369 WHITE	PCS	1	
3050357	INDICATION LIGHT COVER OF POWER CASE	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插頭 白 UL	PCS	1	P-, P+
5447123	PCB SEMI-FINISHED PRODUCT	5333A-2 DL369	PCS	1	

7. REMOTE CONTROL

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	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	LS4148	PCS	3	D801~D803
0700002	SMD DIODE	LL4148	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	
4630974	ELECTRICITY CONDUCT GLUE OF REMOTE CONTROL	RC017-63R	PCS	1	
5070744	PLASTIC BAG FOR ENVIRONMENTAL PROTECTION (WITHOUT HOLE)	75×200×0.05 PE	PCS	1	
5152319	BOTTOM COVER LABEL	RC017R	PCS	1	
5156045	SURFACE COVER OF REMOTE CONTROL	DL375DC(RU)	PCS	1	

8. BATTERY CASE

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
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1050013	THERMISTOR	NTC 10K±5% B:3950K	PCS	1	RP1
1090082	TEMPERATURE SWITCH	250V 5A 75℃ LENGTH 130mm	PCS	1	J1
1510184	RECHARGEABLE BATTERY	4000mAh 7.4V LITHIUM 141.5×36.5×9	SUIT	1	
5142620	SN LABEL	PORTABLE DVD BATTERY WITH BAR CODE	SUIT	1	
3071810	BATTERY COVER UPPER COVER	DL379(HK) SILVERY	PCS	1	
3071245	BATTERY COVER LOWER COVER	DL379 SILVERY	PCS	1	
3071246	BATTERY CLASP	DL379	PCS	1	
3071247	PUSH BUTTON OF BATTERY	DL379 SILVERY	PCS	1	
3071248	BATTERY SLIDER	DL379	PCS	1	
3810079	BATTERY SLIDER COMPRESSED SPRING	DL379	PCS	1	
5234371	SOFT SPONGE SPACER	120×30×1.8 SINGLE-FACED SOFT	PCS	2	STICK TO BATTERY CASE UPPER COVER
5156046	RECHARGEABLE BATTERY STICKER	DL375DC(RU)	PCS	1	
3810024	CLASP SPRING OF BATTERY CASE	DL333	PCS	1	
5232022	FOOT SPACER	Φ 10×1 RUBBER	PCS	4	
4000354	SELF-TAPPING SCREW	PB 1.7×6 NICKEL	PCS	3	3PCS FOR BATTERY PCB AND LOWER COVER
4000522	SELF-TAPPING SCREW	CB 2×6H WHITE NICKEL	PCS	2	2PCS FOR BATTERY SLIDER AND BATTERY BUTTON
4000046	SELF-TAPPING SCREW	PB 3×6 COLOR ZINC	PCS	1	1PC FOR BATTERY PCB AND LOWER COVER
4000363	SELF-TAPPING SCREW	CB 2.6×6H NICKEL	PCS	8	8PCS FOR COVER
5447128	PCB SEMI-FINISHED PRODUCT	B379-0 DL379	PCS	1	RECHARGEABLE BOARD

9. DECODE BOARD

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
90001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	10	R37,R23,R24,R27,R28,R99,R186,R187,R29,R30
0090236	SMD RESISTOR	1/16W 1.8K ±5% 0603	PCS	1	R179
0090272	SMD RESISTOR	1/16W 1Ω ±5% 0603	PCS	7	R62~R68
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	3	L23,R47,R48
0090003	SMD RESISTOR	1/16W 10Ω ±5% 0603	PCS	1	R70
0090004	SMD RESISTOR	1/16W 22Ω ±5% 0603	PCS	4	R7,R32~R34
1030027	SMD VOLTAGE DEPENDENT RESISTOR	SFI0603ML080C	PCS	2	TV1,TV2
0090005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	8	R78~R85
0090230	SMD RESISTOR	1/16W 47Ω ±5% 0603	PCS	2	R74,R75
0090015	SMD RESISTOR	1/16W 1.2K ±5% 0603	PCS	1	R69
90014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	11	R5,R136,R137,R35,R146,R174~R176,R116,R117,R51
0090016	SMD RESISTOR	1/16W 1.5K ±5% 0603	PCS	1	R49
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	1	R126
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	2	R130,R177
0090232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	2	R127,R128
0090104	SMD RESISTOR	1/16W 2.7K ±5% 0603	PCS	1	R131
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	13	R93~R95,R97,R105,R106,R57~R59,R170,R103,R104,R41
0090020	SMD RESISTOR	1/16W 5.1K ±5% 0603	PCS	3	R171,R181,R182
0090221	SMD RESISTOR	1/16W 120Ω ±5% 0603	PCS	1	R129
90021	SMD RESISTOR	1/16W 6.8K ±5% 0603	PCS	2	R101,R102
0090009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	2	R109,R125
0090249	SMD RESISTOR	1/16W 510Ω ±5% 0603	PCS	1	R90
0090013	SMD RESISTOR	1/16W 680Ω ±5% 0603	PCS	2	R25,R26
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	45	R2,R6,R8~R22,R43,R44,R46,R145,R147~R159,R166,R167,R184,R185,R139~R141,R45,R77,R39,R40
90024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	5	R86,R87,R52,R135,R138
0090315	SMD RESISTOR	1/16W 16K ±5% 0603	PCS	1	R173
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R92
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	6	R1,R71~R73,R114,R115
0090026	SMD RESISTOR	1/16W 22K ±5% 0603	PCS	2	R50,R183
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	2	R165,R180
0090028	SMD RESISTOR	1/16W 33K ±5% 0603	PCS	4	R168,R169,R107,R108
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	1	R123
90029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	3	R122,R120,R121
0090192	SMD RESISTOR	1/16W 51K ±5% 0603	PCS	1	R178

0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	10	R3,R4,R111,R112,R98,R143,L75~L78
0090012	SMD RESISTOR	1/16W 560Ω ±5% 0603	PCS	2	R110,R124
0090212	SMD RESISTOR	1/16W 750K ±5% 0603	PCS	1	R91
0090484	SMD RESISTOR	1/4W 0.033Ω±5% 1210	PCS	2	R163,R164
0100019	SMD RESISTOR NETWORK	1/16W33Ω ±5% 8P	PCS	3	RN1~RN3
0100033	SMD RESISTOR NETWORK	1/16W 150Ω±5% 0603×4 8P	PCS	2	RN5,RN6
0100021	SMD RESISTOR NETWORK	1/16w 10k±5% 8P	PCS	2	RN7,RN8
310375	SMD TANTALUM CAPACITOR	16V100UF±20% 7343(D)	PCS	1	TC17
0310548	SMD TANTALUM CAPACITOR	6.3V100UF±20% 3528(B2)	PCS	6	TC41~TC43,TC46,TC40,TC59
0310374	SMD TANTALUM CAPACITOR	16V47UF±20% 6032(C)	PCS	1	TC47
0310390	SMD TANTALUM CAPACITOR	16V10U±20% 3216	PCS	8	TC26~TC31,TC44,TC49
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	17	TC1~TC8,TC10~TC16,TC33,TC36
0310179	SMD TANTALUM CAPACITOR	6.3V 22UF ±20% 3528	PCS	1	TC19
0260255	CD	CD11C 6.3V220U±20%6×5 2.5	PCS	2	TC32,TC50
0310085	SMD CAPACITOR	50V 20P ±5% NPO 0603	PCS	9	C167~C170,C143~C145,C111,C180
310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	1	C177
0310044	SMD CAPACITOR	50V 33P ±5% NPO 0603	PCS	2	C118,C119
0310042	SMD CAPACITOR	50V 15P ±5% NPO 0603	PCS	4	C120~C123
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	6	C137~C142
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	6	C179,C132,C133,C195,C196,C149
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C94,C95
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	2	C125,C126
0310052	SMD CAPACITOR	50V 391 ±5% NPO 0603	PCS	1	C108
0310066	SMD CAPACITOR	50V 102 ±10% X7R 0603	PCS	8	C134,C136,C175,C107,C181,C182,C128,C130
310231	SMD CAPACITOR	50V 122 ±10% X7R 0603	PCS	2	C129,C131
0310198	SMD CAPACITOR	50V 472 ±10% X7R 0603	PCS	1	C178
0310199	SMD CAPACITOR	50V 562 ±10% X7R 0603	PCS	1	C127
0310072	SMD CAPACITOR	50V 103 ±10% X7R 0603	PCS	2	C92,C93
0310201	SMD CAPACITOR	50V 153 ±10% X7R 0603	PCS	1	C124
0310204	SMD CAPACITOR	50V 333 ±10% X7R 0603	PCS	5	C106,C4,C6,C191,C135
0310055	SMD CAPACITOR	16V 333 ±10% X7R 0603	PCS	5	C106,C4,C6,C191,C135
310056	SMD CAPACITOR	16V 473 ±10% X7R 0603	PCS	2	C109,C110
0310206	SMD CAPACITOR	50V 683 ±10% X7R 0603	PCS	4	C148,C183,C189,C190
0310594	SMD CAPACITOR	25V 104±10% X7R 0603	PCS	101	C1~C3,C7~C62,C65~C67,C69~C80,C83~C91,C158~C165,C193,C194,C197~C200,C171~C174
0310634	SMD CAPACITOR	25V 154 ±10% X7R 0603	PCS	2	C5,C192
0310112	SMD CAPACITOR	16V 224 ±10% X5R 0603	PCS	1	C176
0310379	SMD CAPACITOR	25V 474 +80%-20% Y5V 0603	PCS	5	C112~C116
0310483	SMD CAPACITOR	10V 105 ±10% X5R 0603	PCS	16	C97~C101,C146,C147,C150~C157,C166
0310658	SMD CAPACITOR	25V 105 ±10% X7R 0805	PCS	4	C102~C105
0310717	SMD CAPACITOR	6.3V 475±20% X5R 0603	PCS	1	C117
0310654	SMD CERAMIC CAPACITOR	25V 106 +80%-20% Y5V 1206	PCS	21	TC51~TC57,TC18,TC20~TC25,TC35,TC37~TC39,TC45,TC58,TC48
0390096	SMD INDUCTOR	1.8UH ±10% 1608	PCS	3	L34~L36
0390044	SMD INDUCTOR	10UH ±10% 2012	PCS	5	L3,L5,L22,L32,L25
0390279	SMD STRING WINDING INDUCTOR	100uH ±10% 3225	PCS	1	L24
0390241	SMD MAGNETIC CORE INDUCTOR	10uH±20%CDRH5D18	PCS	2	L33,L62
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	44	L1,L7,L9~L21,L26,L31,L37~L39,L41,L42,L44,L46~L50,L52~L55,L57,L58,L67~L74,L79,L80
0390259	SMD MAGNETIC BEADS	FCM2012-120T2A	PCS	7	L2,L6,L63,L45,L65,L66,L40
0390260	SMD MAGNETIC CORE INDUCTOR	22UH±20% CDRH8D43	PCS	1	L60
0390402	SMD MAGNETIC CORE INDUCTOR	22UH±30% CDRH8D28	PCS	1	L61
0390414	SMD MAGNETIC CORE INDUCTOR	15UH ±25% CDRH4D28C/LD	PCS	4	L4,L8,L29,L30
0700007	SMD DIODE	1N4148	PCS	5	VD1,VD2,VD6,VD7,VD13
0700001	SMD DIODE	LS4148	PCS	5	VD1,VD2,VD6,VD7,VD13
0700002	SMD DIODE	LL4148	PCS	5	VD1,VD2,VD6,VD7,VD13
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	2	VD8,VD9
0680027	SMD SCHOTTKY DIODE	SS34	PCS	3	VD10,VD11,VD12
0680028	SMD SCHOTTKY DIODE	MBRS340	PCS	3	VD10,VD11,VD12
0680024	SMD SCHOTTKY DIODE	1N5819 (HOMEMADE)	PCS	1	VD14
0680042	SMD SCHOTTKY DIODE	BAT54S SOT-23	PCS	4	VD15~VD18
0780085	SMD TRIODE	8050D	PCS	9	V10,V14~V19,V21,V24
780129	SMD TRIODE	8550D(160-300) SOT-23	PCS	3	V9,V12,V13

780197	SMD TRIODE	C1815	PCS	2	V6,V7
780193	SMD TRIODE	2SK3018	PCS	2	V22,V23
780115	SMD TRIODE	2SB1132	PCS	2	V4,V5
780040	SMD TRIODE	3904(100-300) SOT-23	PCS	1	V20
780187	SMD TRIODE	2SC4226(125-250) SC-70	PCS	1	V8
790082	SMD FIELD EFFECT TUBE	AO3419 SOT-23	PCS	2	QB1,QB2
790075	SMD FIELD EFFECT TUBE	AO6401 TSOP-6	PCS	1	Q1
880185	IC	NJM4558M SOP	PCS	1	U10
880562	IC	4580 SOP	PCS	1	U10
880361	IC	4558 SOP	PCS	1	U10
881920	IC	PQ05DZ11 SC-63	PCS	3	U19~U21
881415	IC	HY57V641620HGT-7 TSOP	PCS	1	U7
881189	IC	MT48LC4M16A2-7 SOP	PCS	1	U7
882635	IC	AL1012 TSSOP	PCS	2	U15,U16
881031	IC	24C02N SOP	PCS	1	U1
881855	IC	XC602P502PR SOT-89	PCS	1	U17
881631	IC	XC6201P502PR SOT-89	PCS	1	U17
881892	IC	XC6202P802PR SOT-89	PCS	1	U18
881513	IC	BA6849FM HSOP	PCS	1	U4
881682	IC	BA6849FP HSOP	PCS	1	U4
882644	IC	MT1389FE/H(HD VERSION) QFP	PCS	1	U9
881405	IC	BA5954FM HSOP	PCS	1	U6
882634	IC	MAX9702 TQFN	PCS	1	U13
882322	IC	AZ431-2.5V SOT-23	PCS	3	ZD1,ZD2,U2
882268	IC	AAT1102M MSOP	PCS	1	U22
0882105	IC	LM393 SO8	PCS	1	U3
0881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U23
2360016	RECEIVING HEAD	HS0038B3V	PCS	1	U5
0960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	X1
1632743	PCB	2379-2	PCS	1	
1940227	SOCKET	3P 1.25mm SMD	PCS	1	XS5
1940290	SOCKET	14P 0.8mm SMD	PCS	2	XS2,CN1
1940296	SOCKET	9P 0.8mm SMD	PCS	1	CN2
1940208	CABLE SOCKET	30P 0.5mm SMD WITH CLASP	PCS	1	XS1
1940229	CABLE SOCKET	15P 0.5mm SMD WITH CLASP	PCS	1	XS3
1870050	CABLE SOCKET	DS-0341D00-130-110	PCS	1	JK9
1870021	CABLE SOCKET	DC-023	PCS	1	JK8
1350062	TESTING SWITCH	DS-24	PCS	2	SW1,SW3
160157	ROTATED POTENTIOMETER	WHE101GB-2A-B50K-16	PCS	1	VR1
1910101	AV SOCKET	PJ-327 BLACK	PCS	3	JK1,JK4,JK5
1980076	HEADPHONE SOCKET	ST-0250D00-077-110	PCS	2	JK2,JK3
1990037	3-IN-1 CARD HOLDER	SD/MS/MMC 26P H=4.15 TOP	PCS	1	JK6