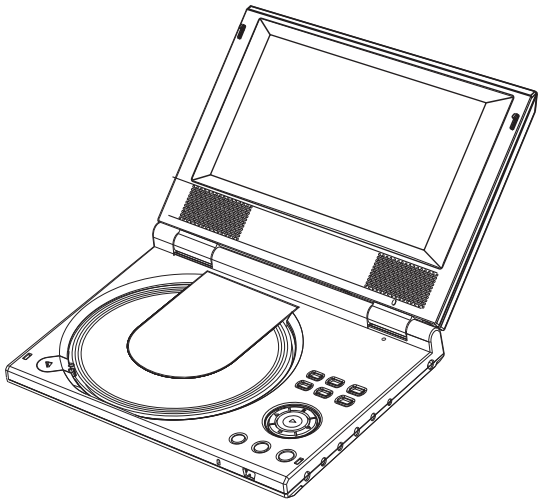
SERVICE MANUAL

DL373D



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1. SAFETY PREAUTIONS

1.1 GENERAL GUIDELINES

1. When servicing, observe the original lead dress. if a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barrier, insulation papers shields are properly installed.

3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially availabel discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices,place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified as anti-static (ESD protected)can generate electrical charge sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

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

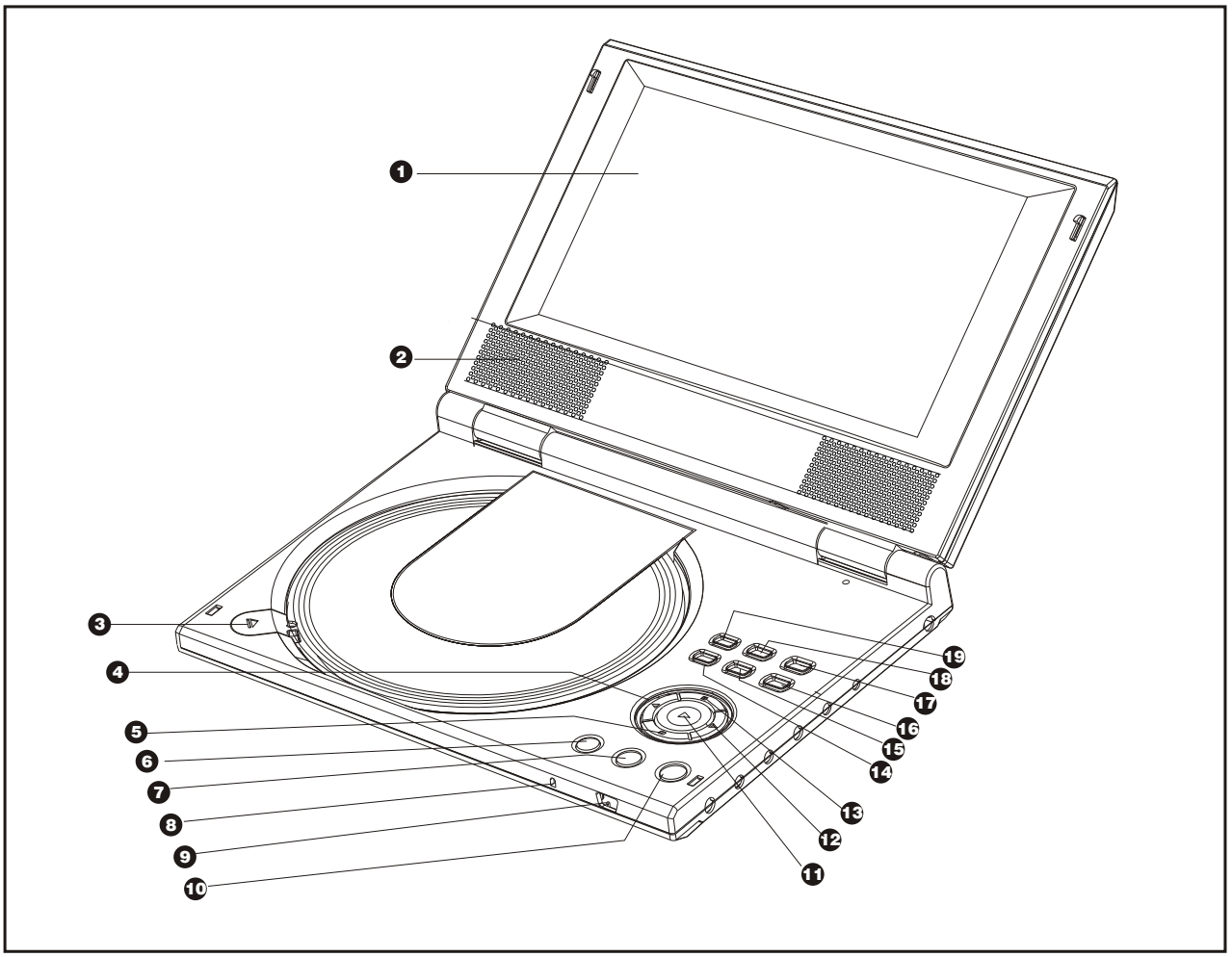
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity(ESD).

notice (1885x323x2 tiff)

IMPORTANT SAFETY NOTICE

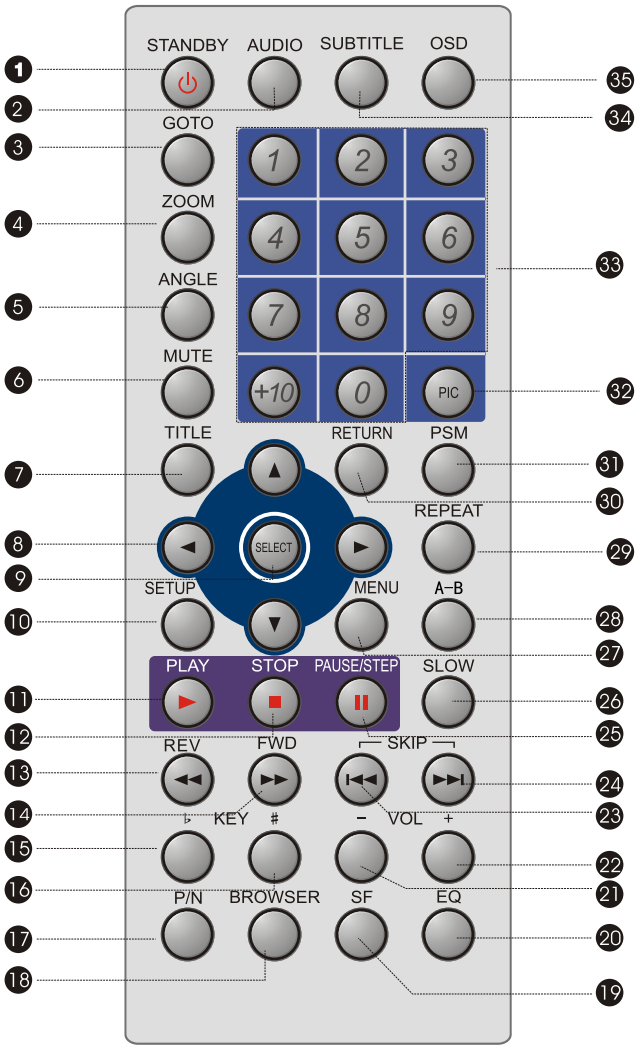
There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire,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

3.Control Button Locations and Explanations



1. Color TFT LCD
2. Speakers
3. OPEN/CLOSE button
4. PREV button / LEFT direction arrow
5. PAUSE button / DOWN direction arrow
6. Vol-
   Adjust the volume of headphone an d speaker.
7. Vol+
   Adjust the volume of headphone and speaker.
8. Power indicator
9. IR sensor
10. Panel/Switch Button
    Press once to switch to Direction Buttons function
    Press twice to switch to Virtual Keyboard function
11. PLAY button / SELECT button
12. NEXT button / RIGHT direction arrow
13. STOP button / UP direction arrow
14. SET button
15. PICTURE button
16. DVD/AUXIN button
17. POWER button
18. MENU button
19. Browser Button

Control Button Locations and Explanations(Continued)



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 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. **REV** 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.
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. **PSM** Button
    Power Spectrum Meter on/off.
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.

4.PREVENTION OF STATIC ELECTRICITY DISCHARGE

The laser diode in the traverse unit (optical pickup)may brake 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.

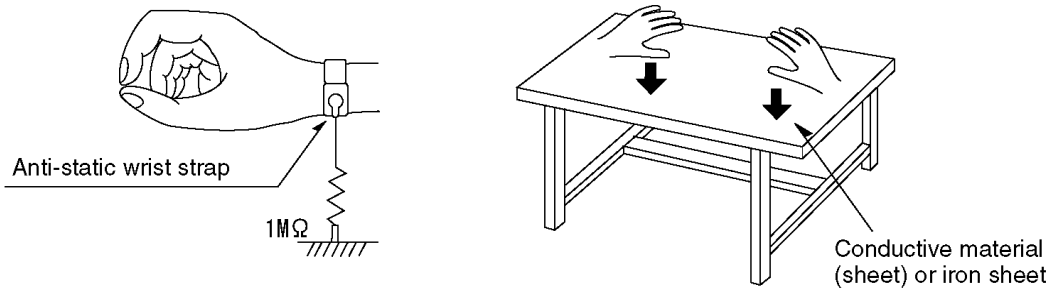
4.1.1. Worktable grounding

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.

safety_3 (1577x409x2 tiff)



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 willdamage 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-precise structure.

2. When replacing the optical pickup, install the flexible cable and cut is short land with a nipper. See the optical pickup replacement procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventingstatic 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

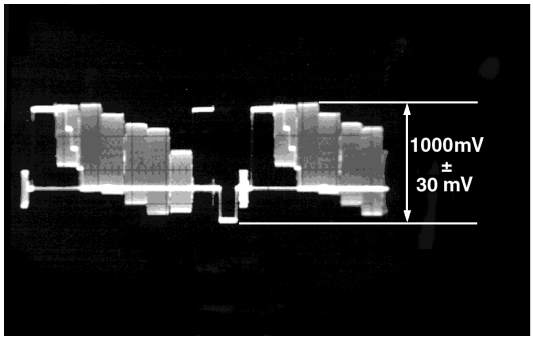
DO this confirmation after replacing a P.C.B.

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

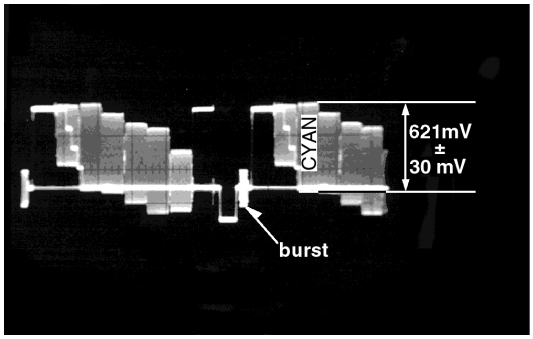
Do the confirmation after replacing P.C.B.

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±30mV	

Purpose:To maintain video signal output compatibility.

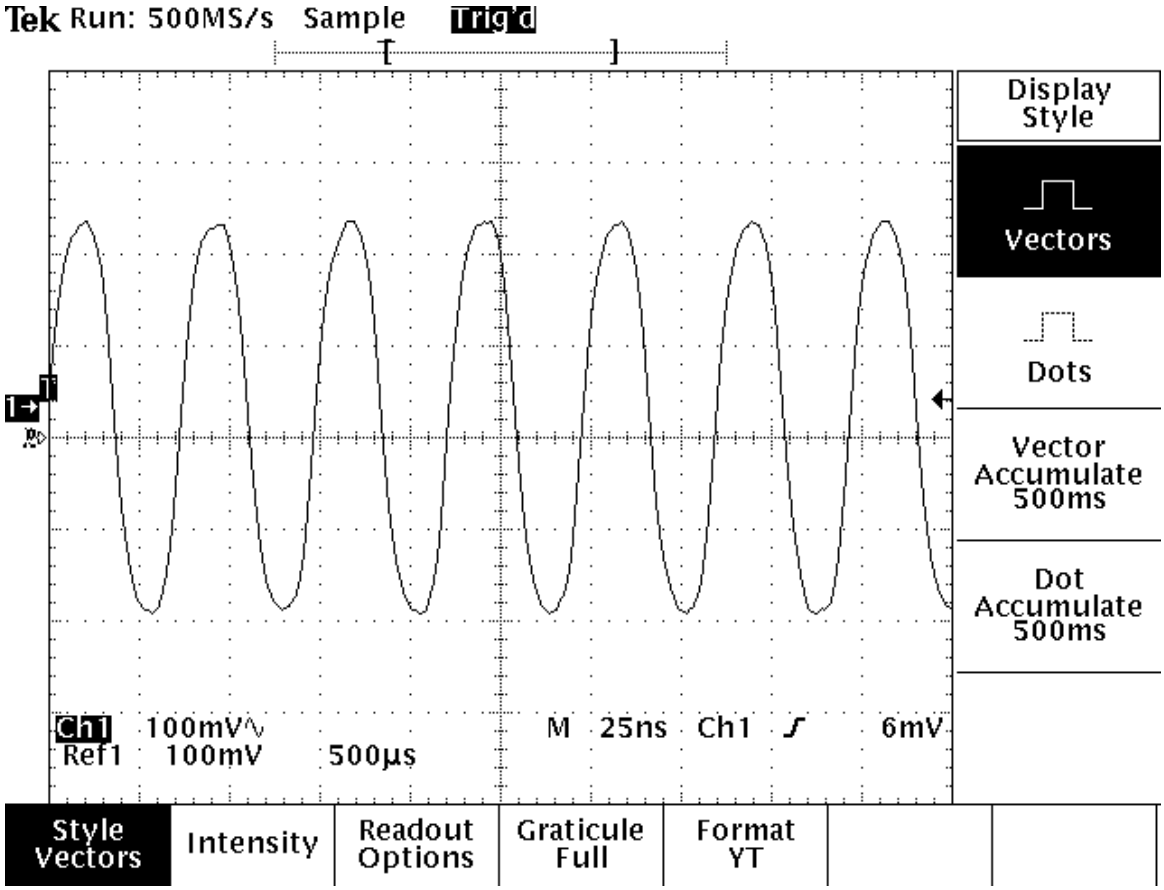
1.Connect the oscilloscope to the video output terminal and terminate at 75 ohme.

2.Confirm that the chrominance signal(C)level is 621 mVp-p±30mV



6.MPEG BOARD CHECK WAVEFORM

6.1 27MHz WAVEFORM



MT1389

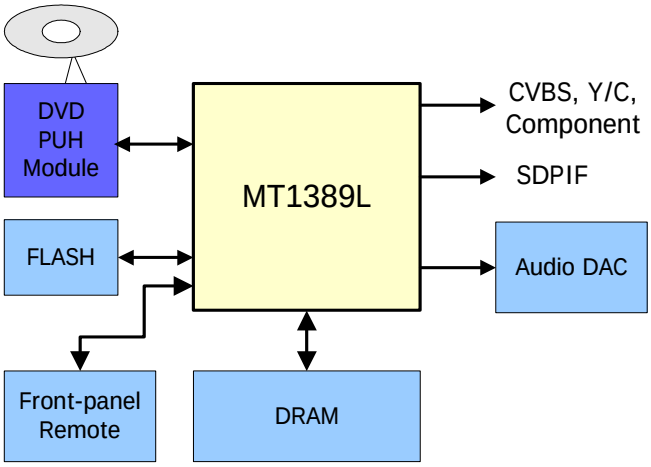
Progressive-Scan DVD Player SOC

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

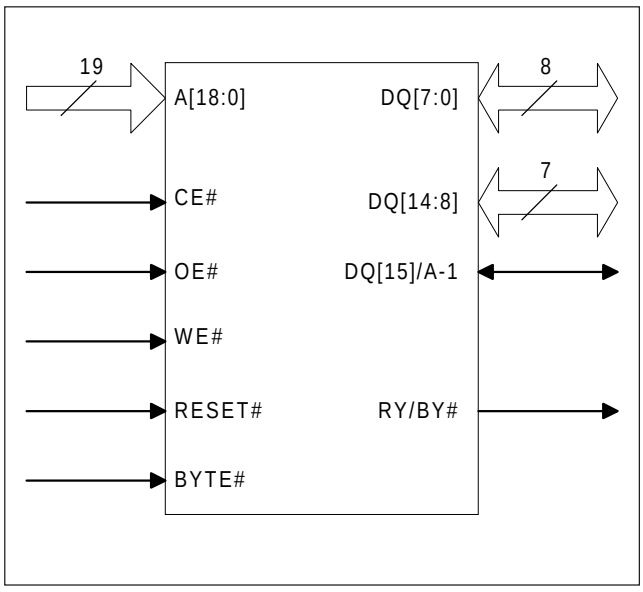
- Outline
  - 256-pin LQFP package
  - 3.3/1.8-Volt. Dual operating voltages

IC BLOCK DIAGRAM & DESCRIPTION

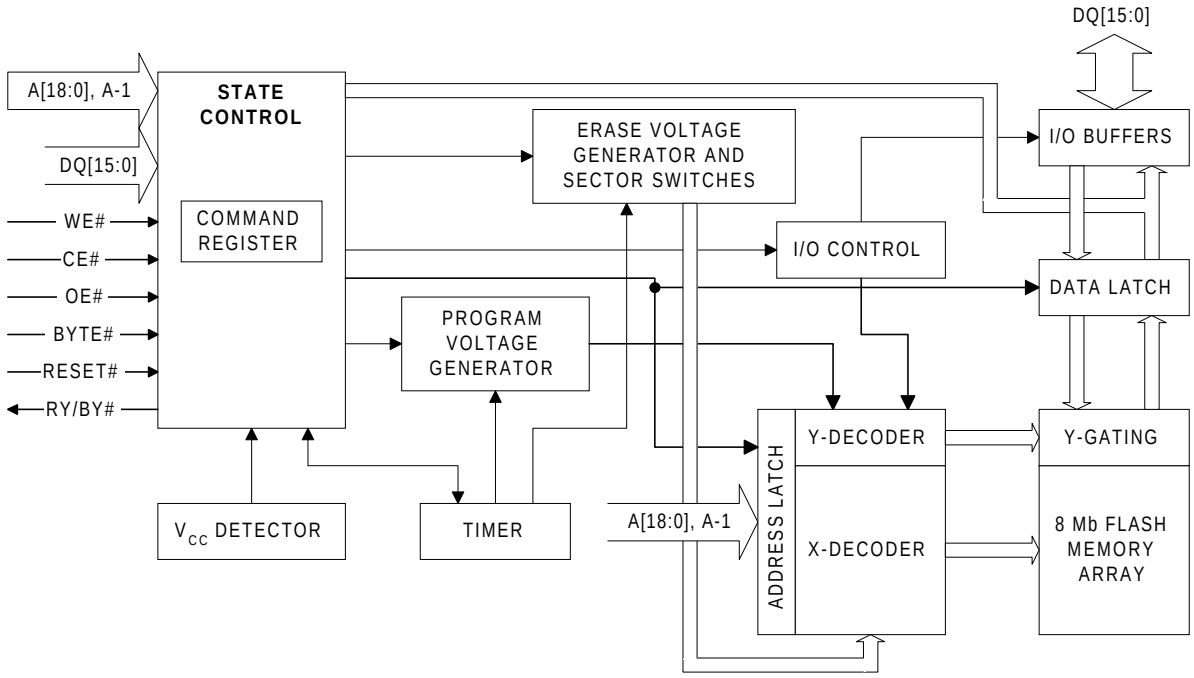
7.3 U214 HY29F800

KEY FEATURES

- **5 Volt Read, Program, and Erase**
  - Minimizes system-level power requirements
- **High Performance**
  - Access times as fast as 55 ns
- **Low Power Consumption**
  - 20 mA typical active read current in byte mode, 28 mA typical in word mode
  - 35 mA typical program/erase current
  - 5 µA maximum CMOS standby current
- **Compatible with JEDEC Standards**
  - Package, pinout and command-set compatible with the single-supply Flash device standard
  - Provides superior inadvertent write protection
- **Sector Erase Architecture**
  - Boot sector architecture with top and bottom boot block options available
  - One 16 Kbyte, two 8 Kbyte, one 32 Kbyte and fifteen 64 Kbyte sectors in byte mode
  - One 8 Kword, two 4 Kword, one 16 Kword and fifteen 32 Kword sectors in word mode
  - A command can erase any combination of sectors
  - Supports full chip erase
- **Erase Suspend/Resume**
  - Temporarily suspends a sector erase operation to allow data to be read from, or programmed into, any sector not being erased
- **Sector Protection**
  - Any combination of sectors may be locked to prevent program or erase operations within those sectors
- **Temporary Sector Unprotect**
  - Allows changes in locked sectors (requires high voltage on RESET# pin)
- **Internal Erase Algorithm**
  - Automatically erases a sector, any combination of sectors, or the entire chip
- **Internal Programming Algorithm**
  - Automatically programs and verifies data at a specified address
- **Fast Program and Erase Times**
  - Byte programming time: 7 µs typical
  - Sector erase time: 1.0 sec typical
  - Chip erase time: 19 sec typical
- **Data# Polling and Toggle Status Bits**
  - Provide software confirmation of completion of program or erase operations
- **Ready/Busy# Output (RY/BY#)**
  - Provides hardware confirmation of completion of program and erase operations
- **Minimum 100,000 Program/Erase Cycles**
- **Space Efficient Packaging**
  - Available in industry-standard 44-pin PSOP and 48-pin TSOP and reverse TSOP packages

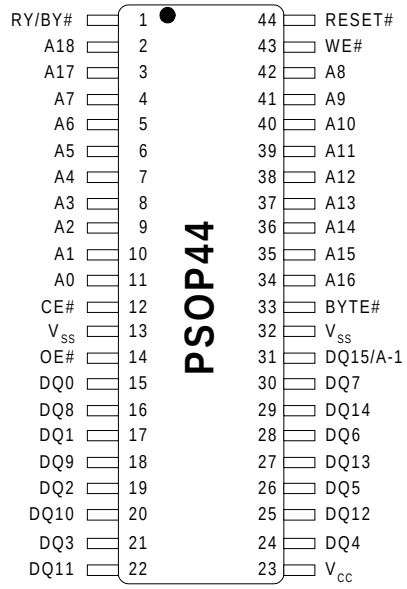


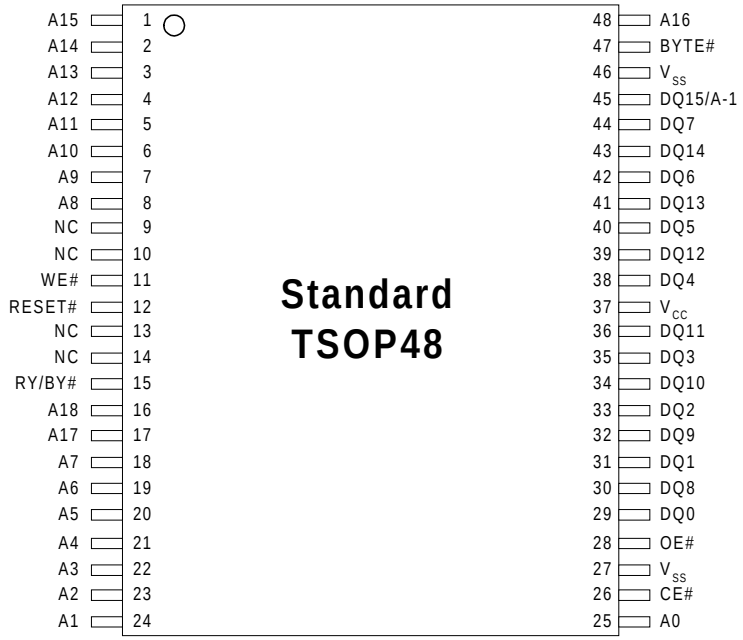
BLOCK DIAGRAM

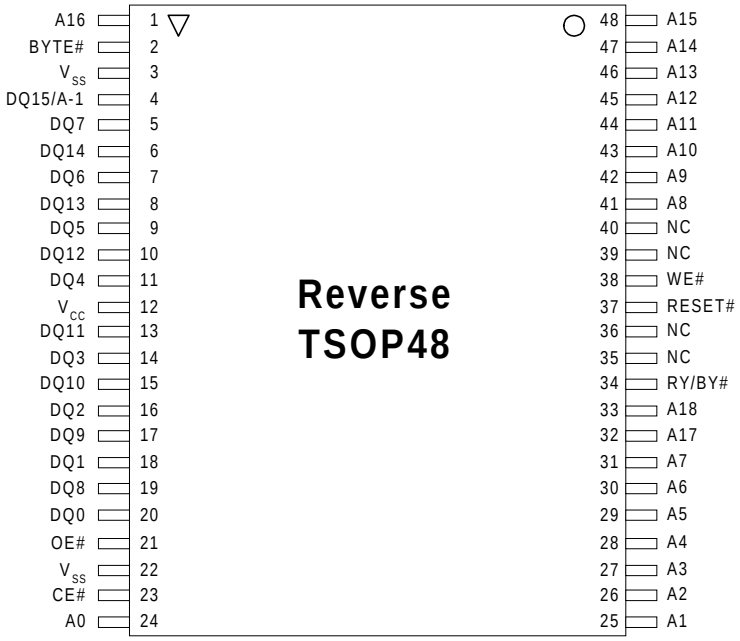


IC BLOCK DIAGRAM & DESCRIPTION

PIN CONFIGURATIONS







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.

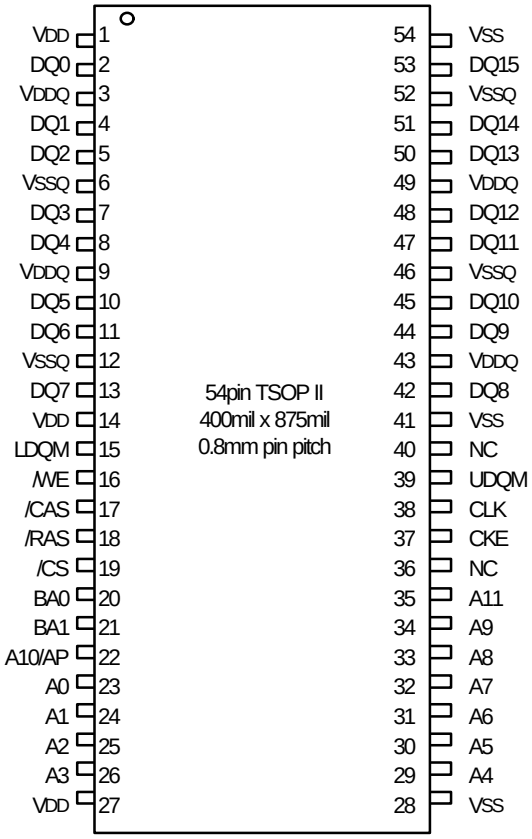
HY57V641620HG is offering fully synchronous operation referenced to a positive edge of the clock. All inputs and outputs are synchronized with the rising edge of the clock input. The data paths are internally pipelined to achieve very high bandwidth. All input and output voltage levels are compatible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

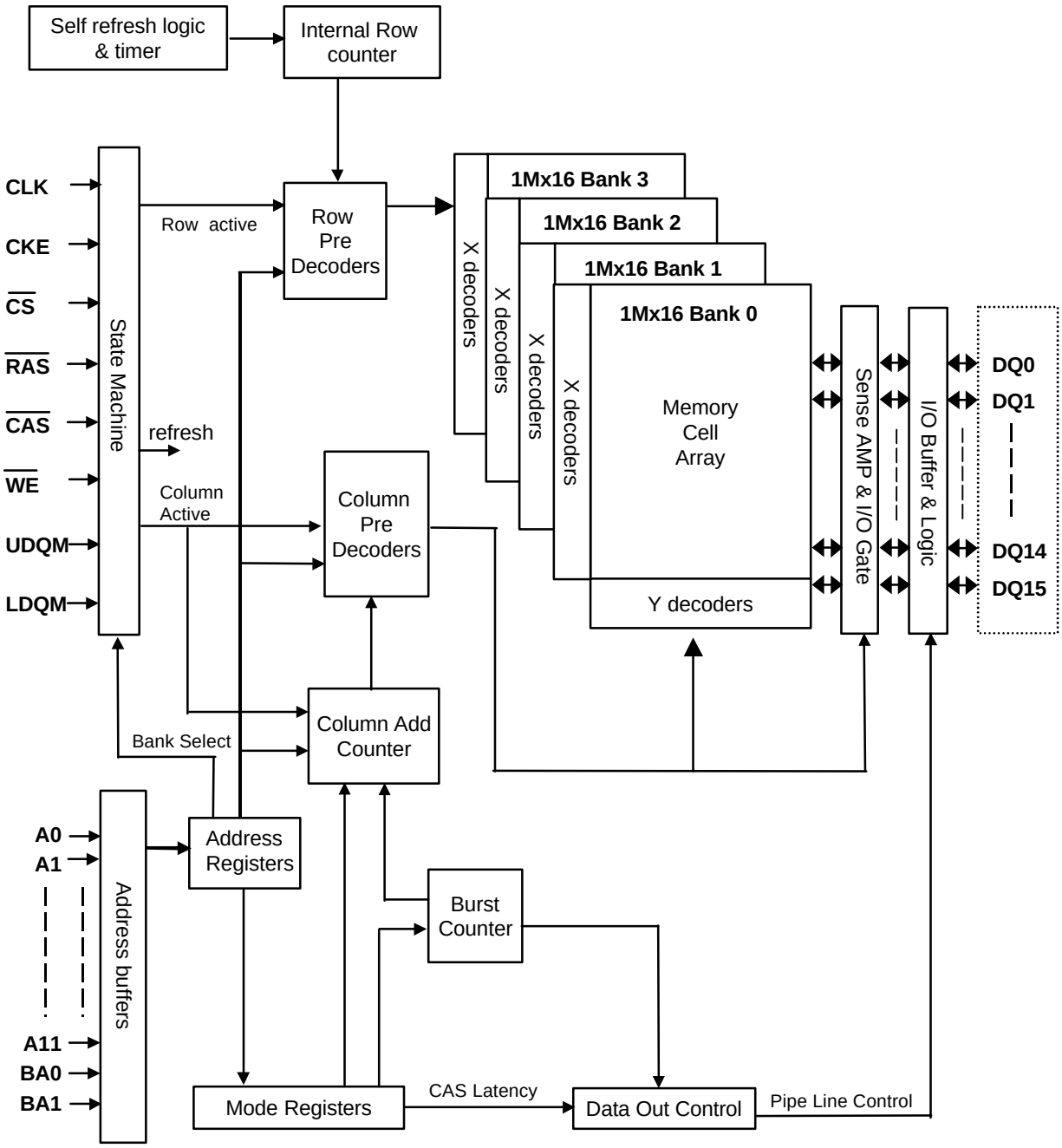


PIN DESCRIPTION

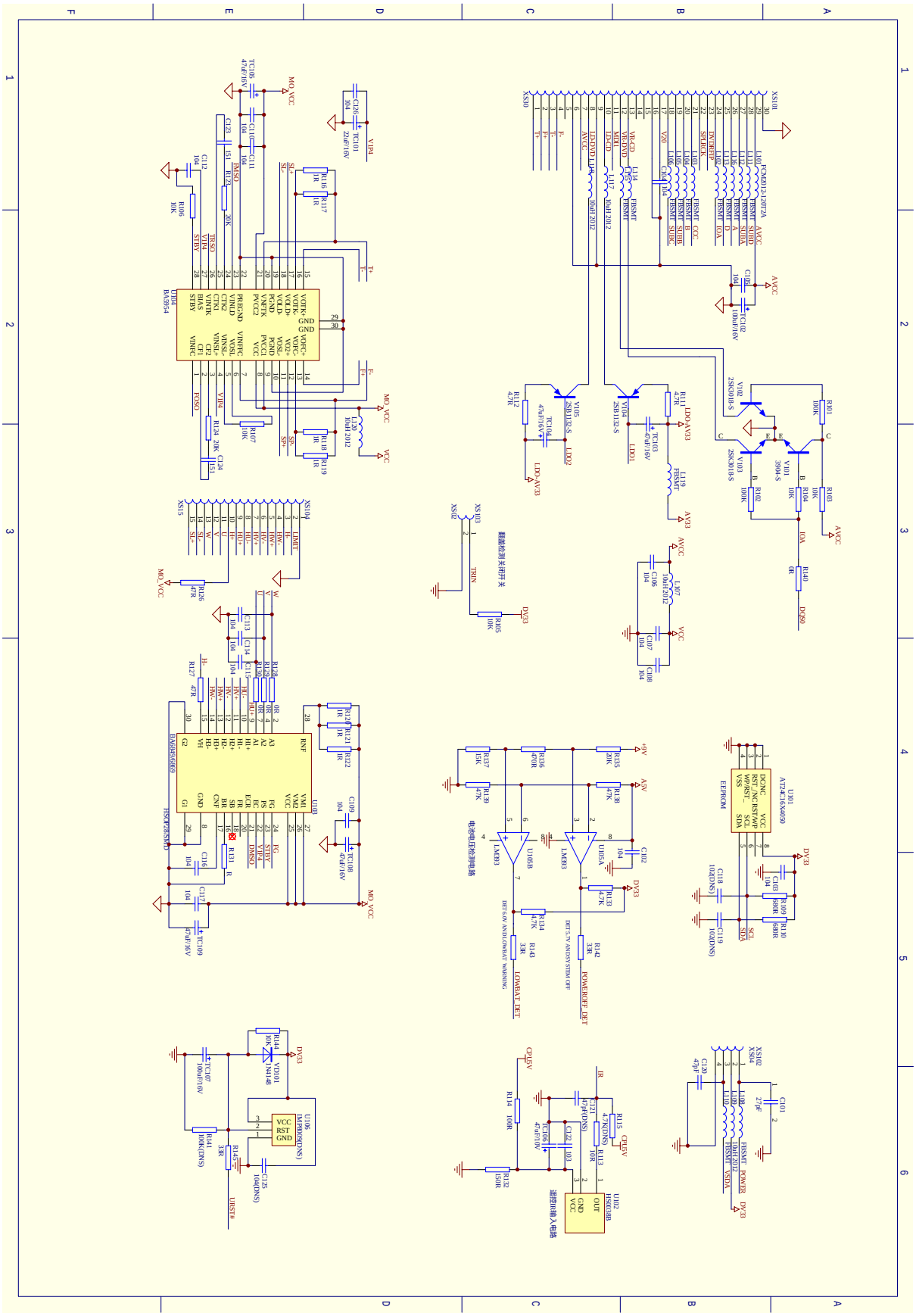
PIN	PIN NAME	DESCRIPTION
CLK	Clock	The system clock input. All other inputs are registered to the SDRAM on the rising edge of CLK
CKE	Clock Enable	Controls internal clock signal and when deactivated, the SDRAM will be one of the states among power down, suspend or self refresh
$\overline{CS}$	Chip Select	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 $\overline{CAS}$ 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

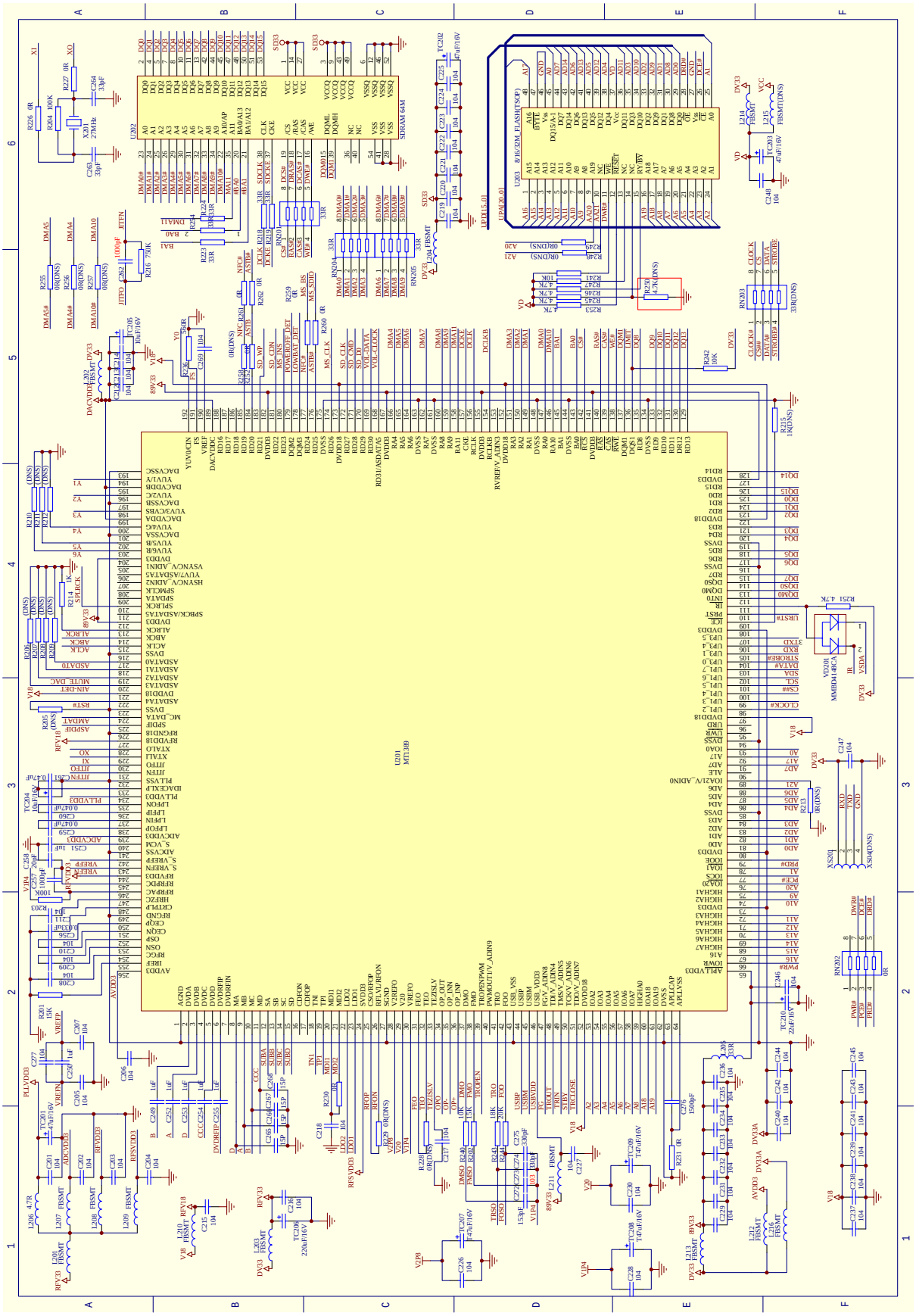
FUNCTIONAL BLOCK DIAGRAM

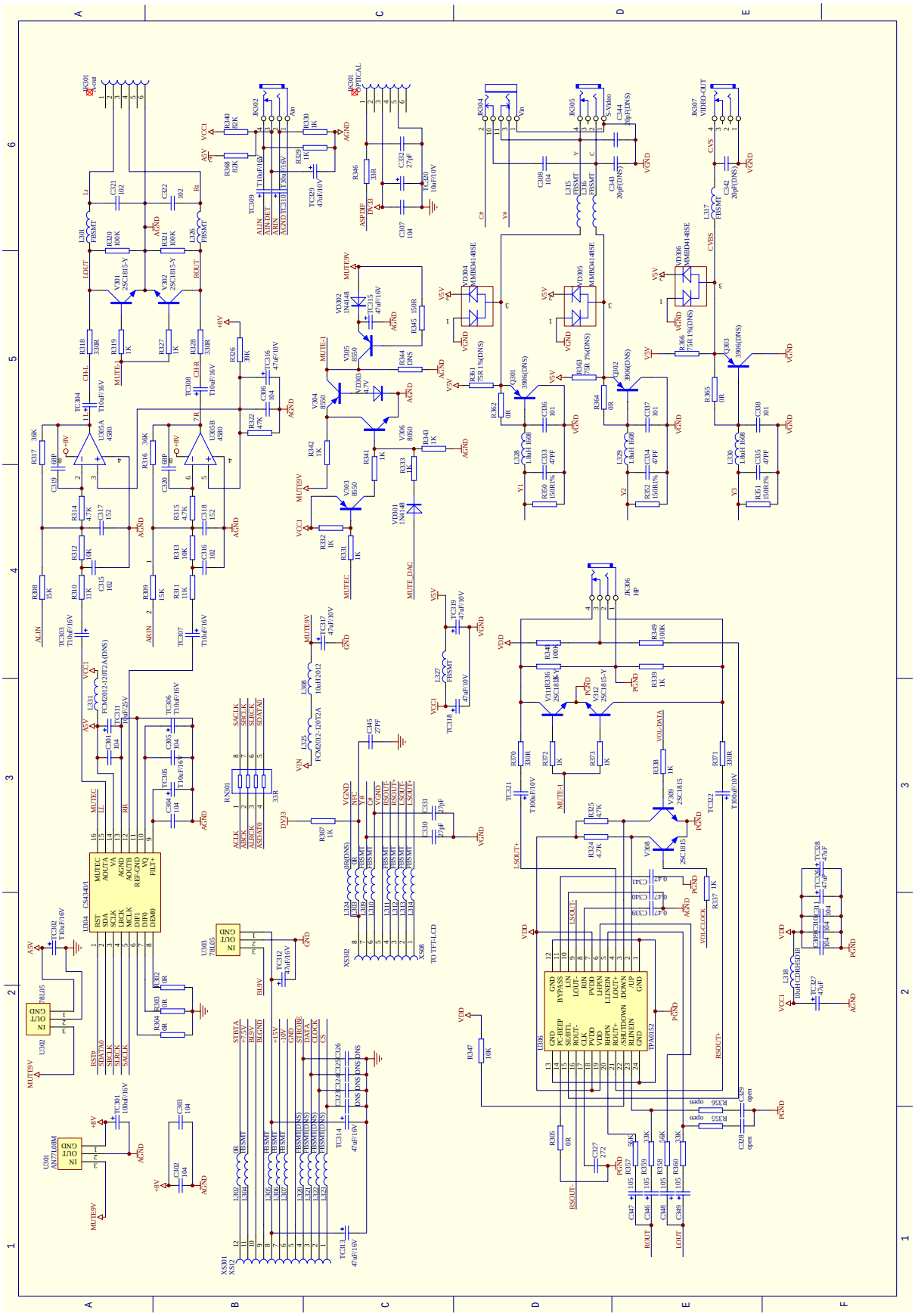
1Mbit x 4banks x 16 I/O Synchronous DRAM

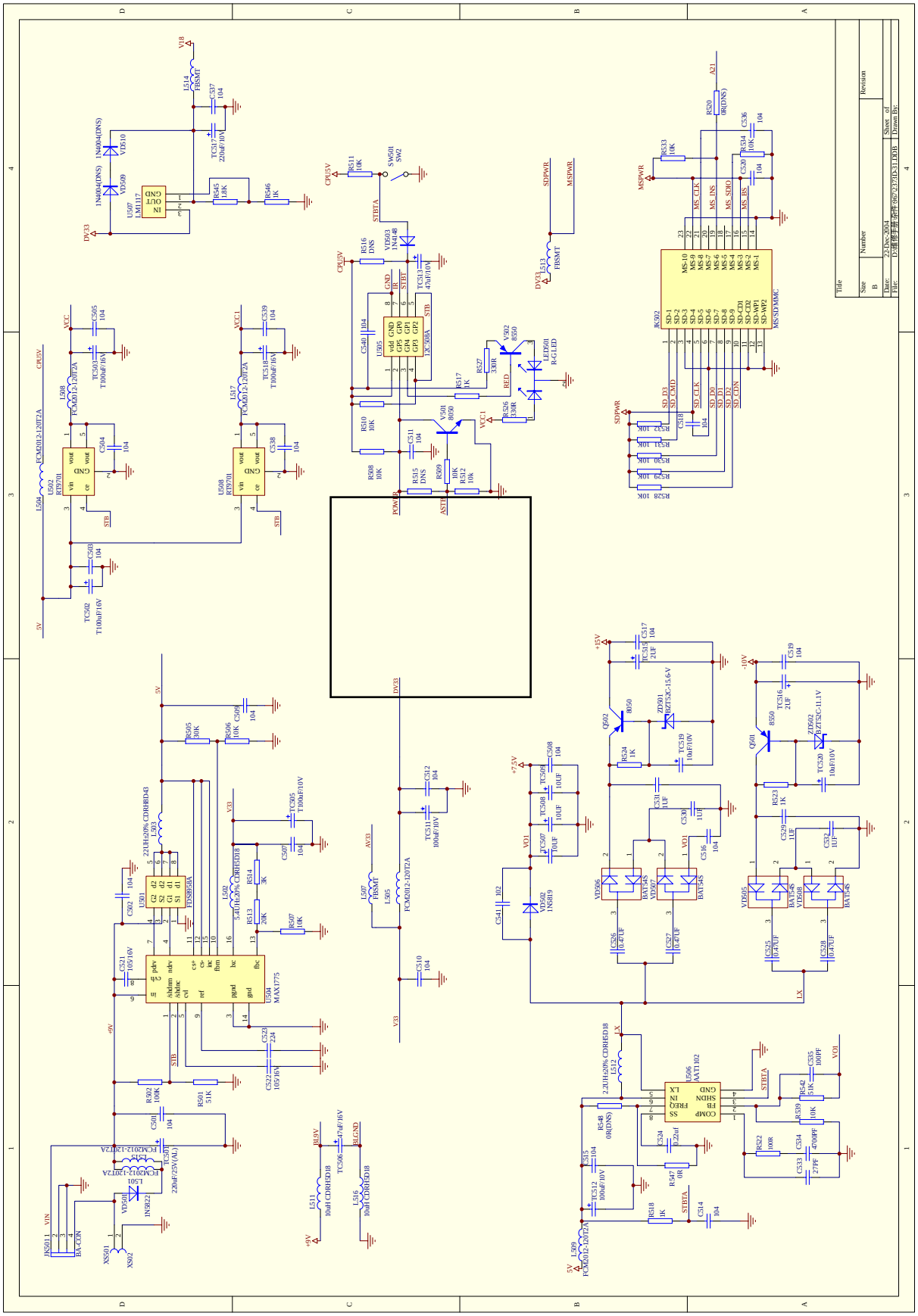


8.SCHEMATIC & P.C.B WIRING DIAGRAM
DECODE BOARD

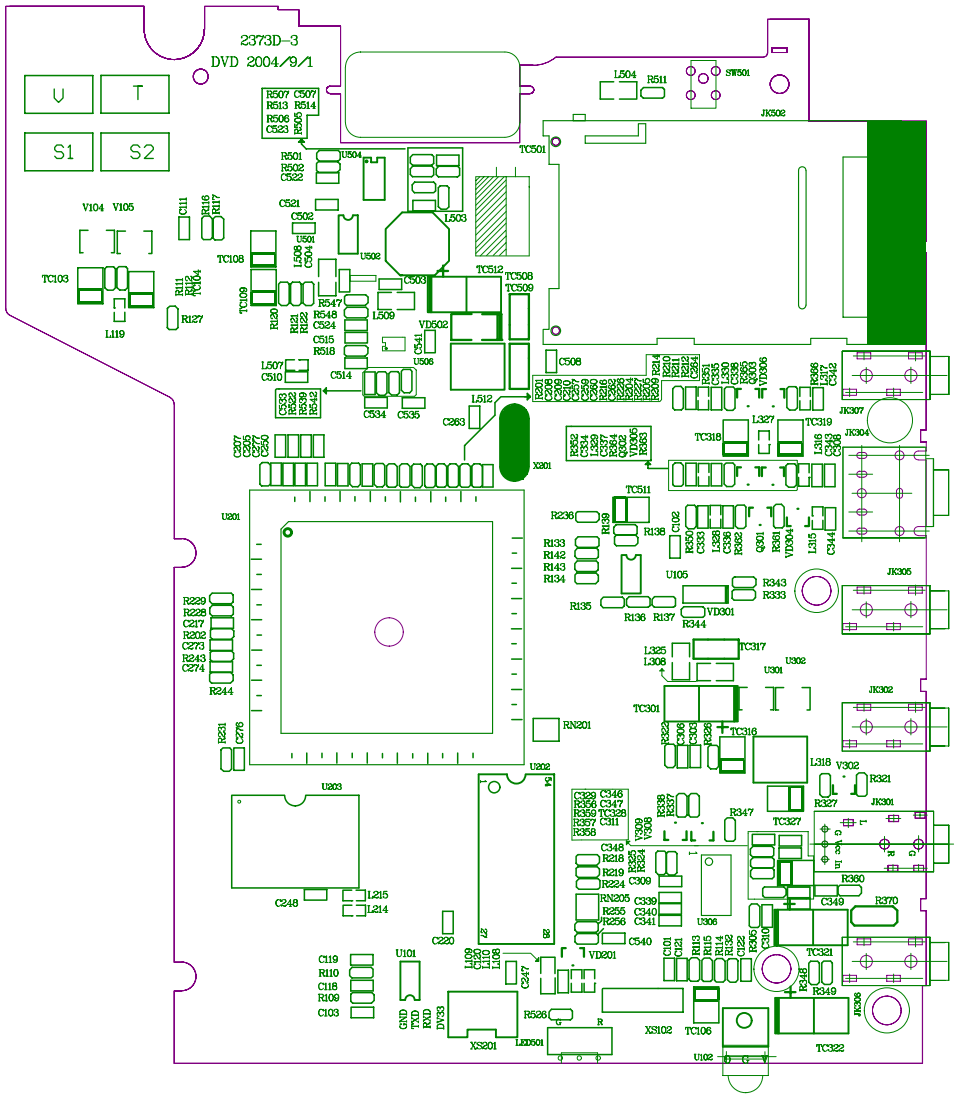


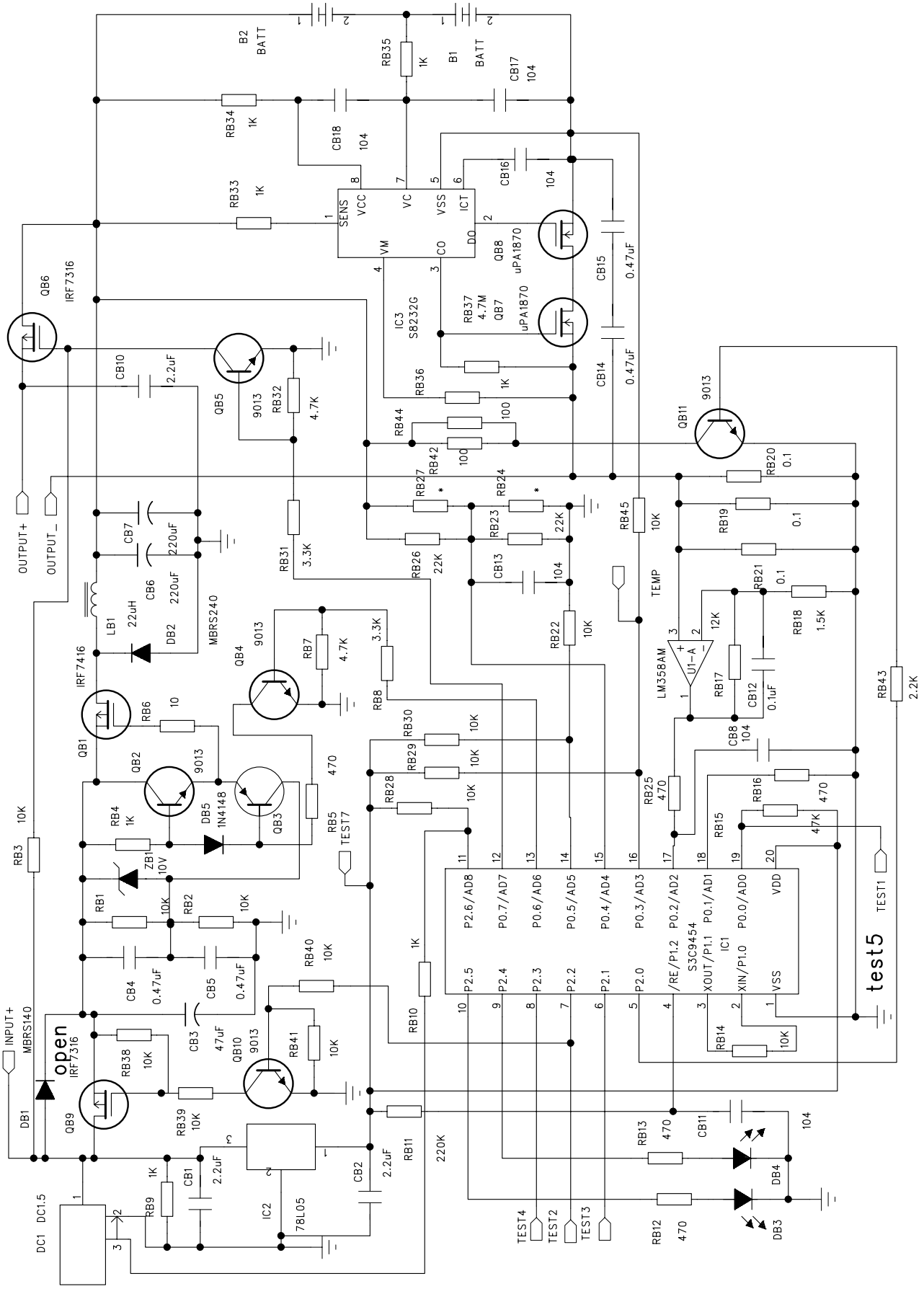


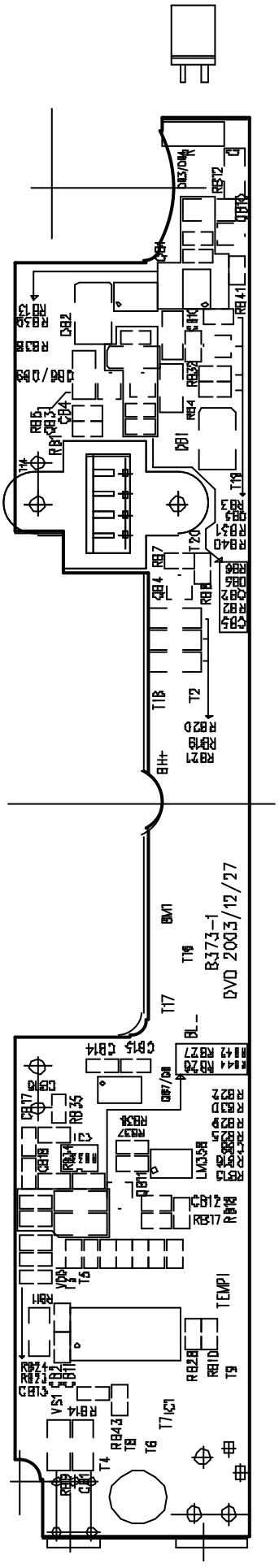


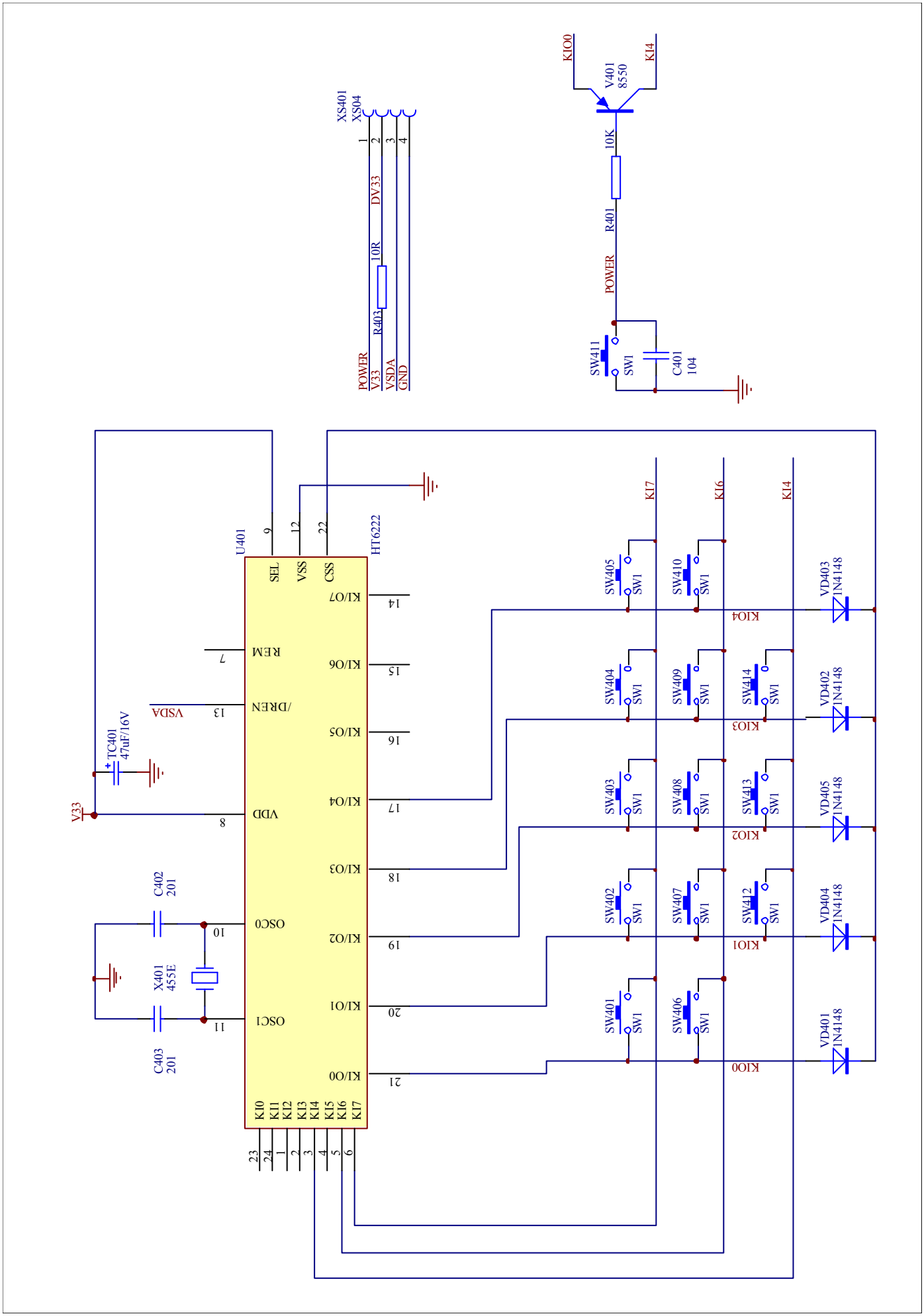


DECODE BOARD

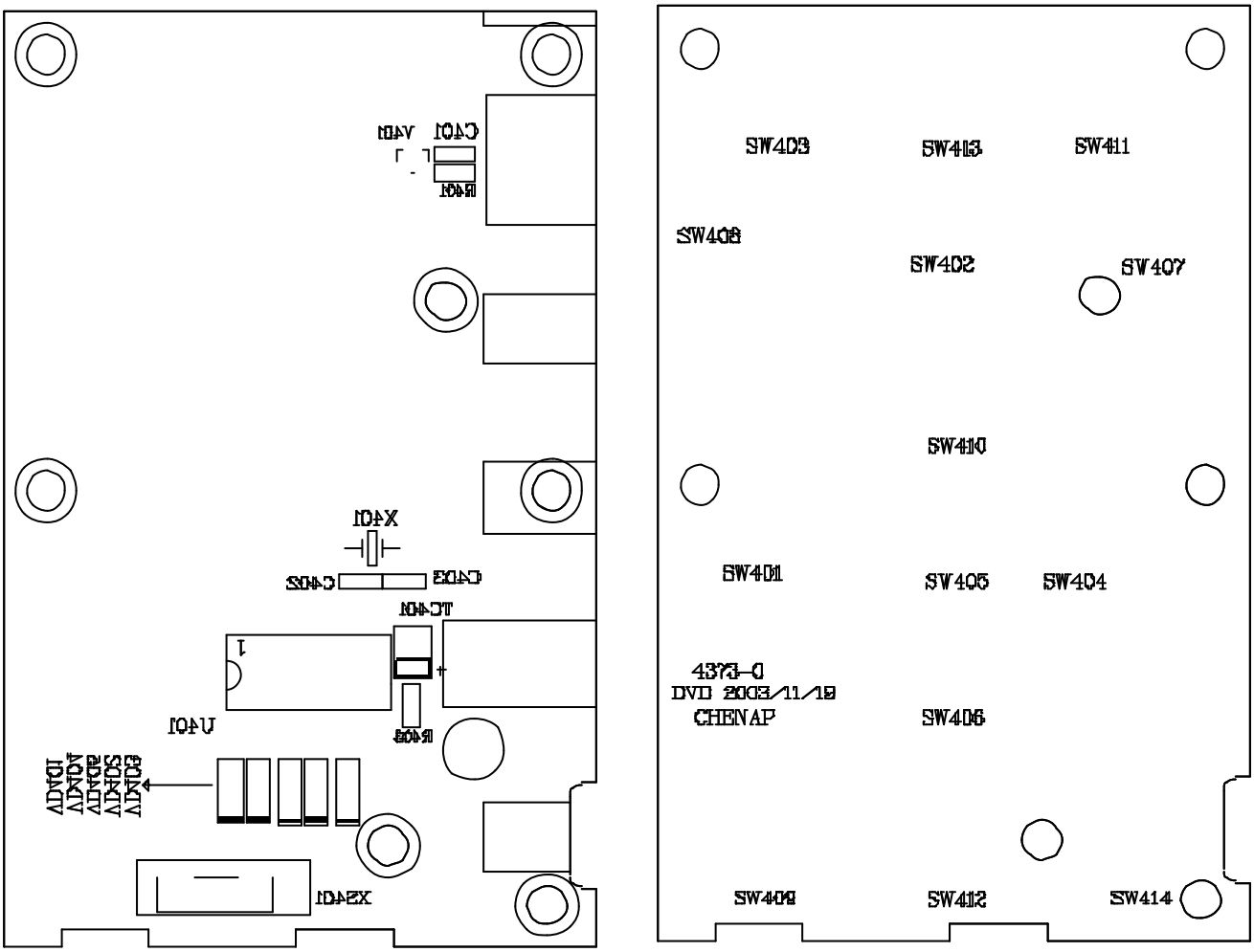



B2 BATT
B1 BATT
RB35 1K
RB34 1K
CB18 104
CB17 104
CB16 104
RB33 1K
IC3 S8232G
SENS VCC VC VSS ICT VM CO DO
QB8 uPA1870
QB7 uPA1870
RB37 4.7M
CB15 0.47uF
CB14 0.47uF
QB6 IRF7316
CB10 2.2uF
QB5 9013
RB32 4.7K
RB36 1K
RB44 100
RB42 100
QB11 9013
RB20 0.1
RB27 *
RB24 *
RB23 22K
RB26 22K
RB45 10K
RB19 0.1
RB31 3.3K
CB13 104
RB22 10K
TEMP
RB21 0.1
RB18 1.5K
OUTPUT+
OUTPUT_
CB7 220uF
CB6 220uF
LB1 22uH
DB2 MBRS240
IRF7416
QB4 9013
RB7 4.7K
RB8 3.3K
LM358AM U1-A
RB17 12K
CB12 0.1uF
RB43 2.2K
QB1 IRF7416
RB6 10
QB2 9013
QB3 9013
RB30 10K
RB29 10K
RB28 10K
RB5 470
TEST7
RB25 470
CB8 104
RB16 470
RB4 1K
DB5 IN4148
ZB1 10V
RB3 10K
RB1 10K
RB2 10K
RB15 47K
P2.6/AD8 P0.7/AD7 P0.6/AD6 P0.5/AD5 P0.4/AD4 P0.3/AD3 P0.2/AD2 P0.1/AD1 P0.0/AD0 VDD
P2.5 P2.4 P2.3 P2.2 P2.1 P2.0 /RE/P1.2 XOUT/P1.1 XIN/P1.0 VSS
S3C9454
IC1
test5
TEST1
CB4 0.47uF
CB5 0.47uF
RB40 10K
RB10 1K
INPUT+
MBRS140
open
IRF7316
RB38 10K
CB3 47uF
QB10 9013
RB41 10K
RB14 10K
DB1
QB9
RB39 10K
RB11 220K
RB13 470
CB11 104
DB4
DC1 DC1.5
RB9 1K
CB1 2.2uF
IC2 78L05
CB2 2.2uF
RB12 470
DB3
TEST4
TEST2
TEST3

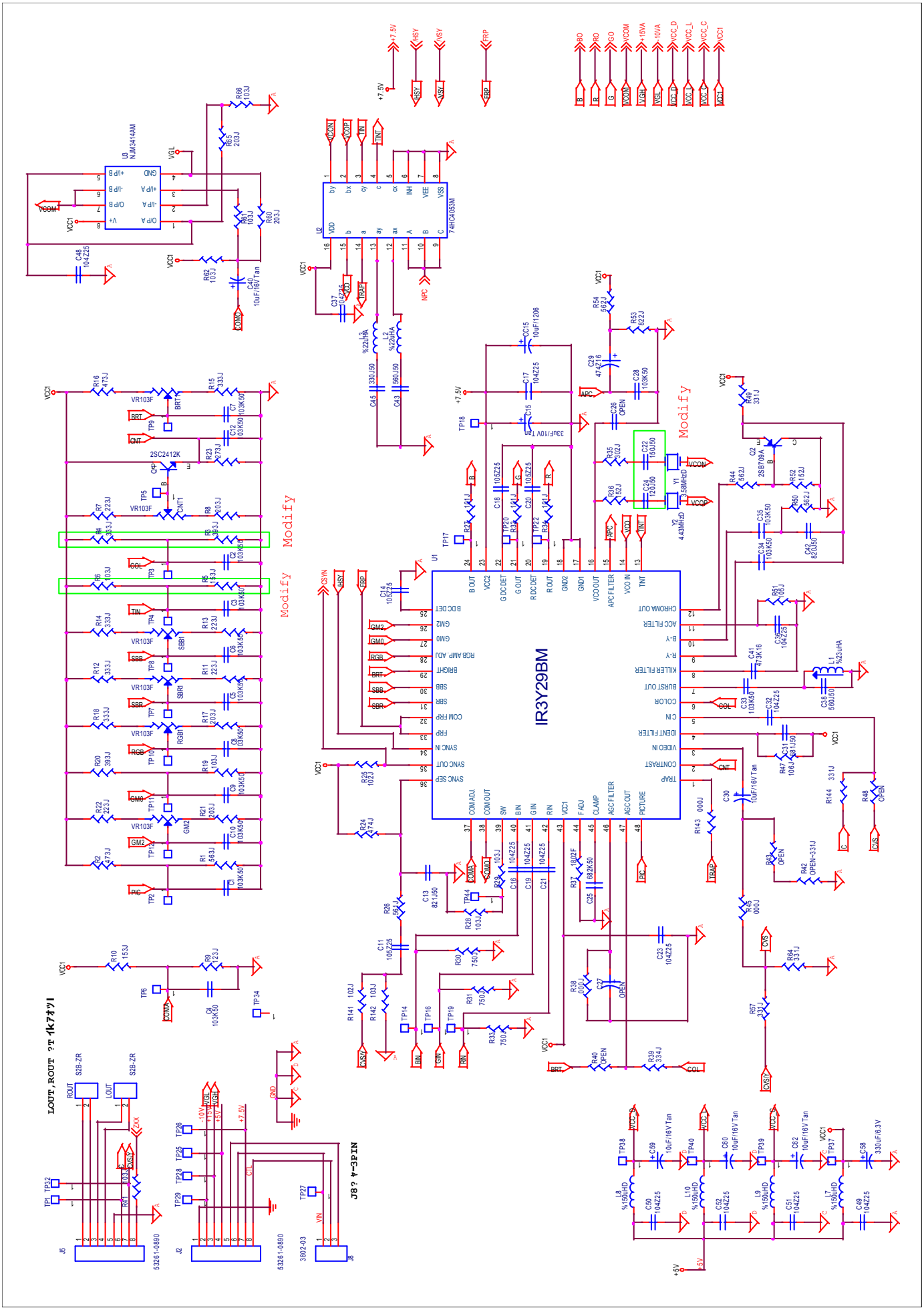

BJ373-1
DVD 2003/12/27


XS401
XS04
1
2
3
4
DV33
10R
R403
POWER
V33
VSDA
GND
KIO0
KI4
V401
8550
10K
R401
POWER
SW411
SW1
C401
104
U401
HT6222
SEL
VSS
CSS
KI/O7
KI/O6
KI/O5
KI/O4
KI/O3
KI/O2
KI/O1
KI/O0
REM
/DREN
VDD
OSC0
OSC1
K10
K11
K12
K13
K14
K15
K16
K17
9
12
22
14
15
16
17
18
19
20
21
7
13
8
10
11
23
24
1
2
3
4
5
6
VSDA
V33
TC401
47uF/16V
C402
201
X401
455E
C403
201
KI7
KI6
KI4
SW405
SW410
SW404
SW409
SW414
SW403
SW408
SW413
SW402
SW407
SW412
SW401
SW406
SW1
KIO4
KIO3
KIO2
KIO1
KIO0
VD403
VD402
VD405
VD404
VD401
IN4148

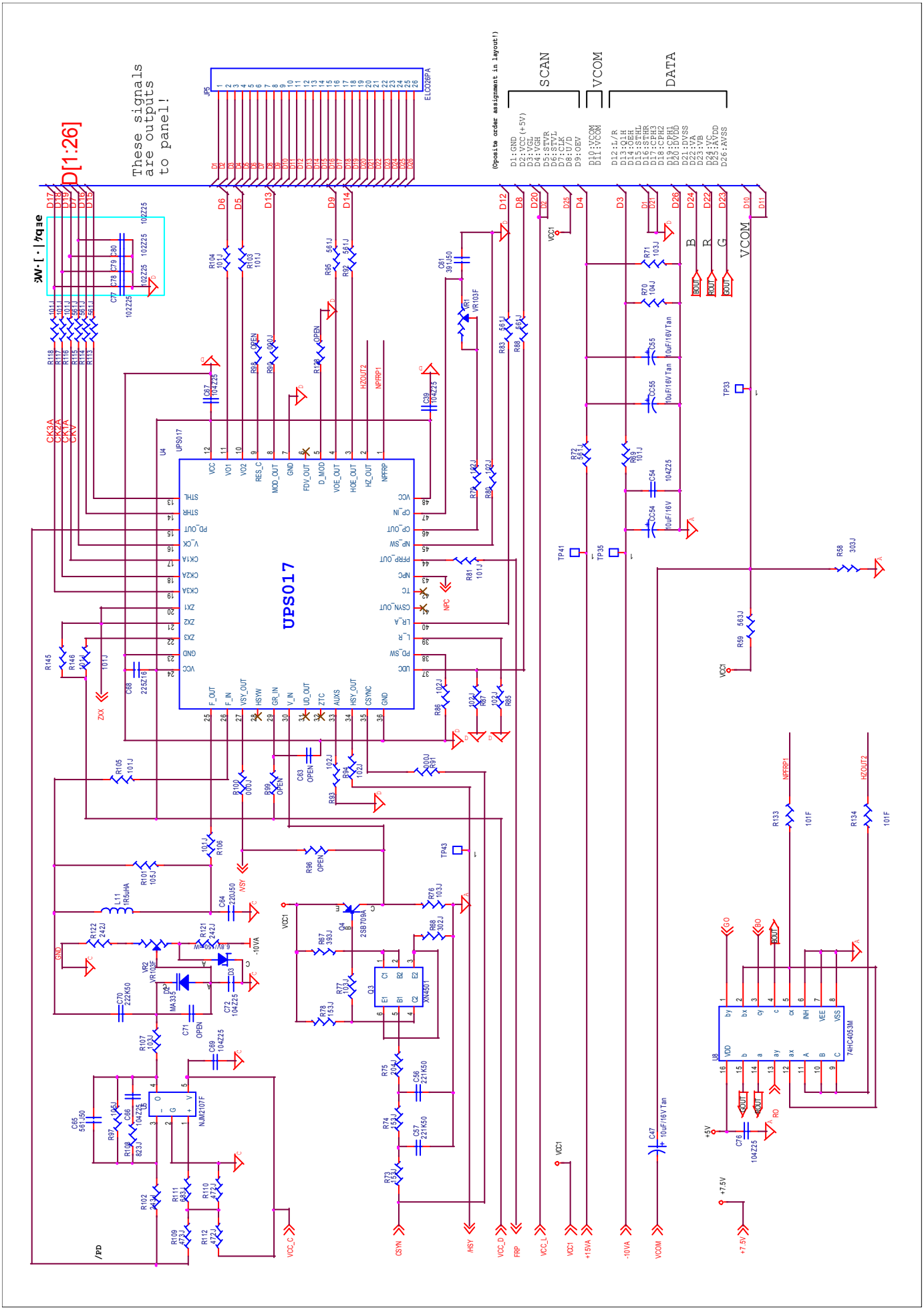
MAIN FRONT PANEL



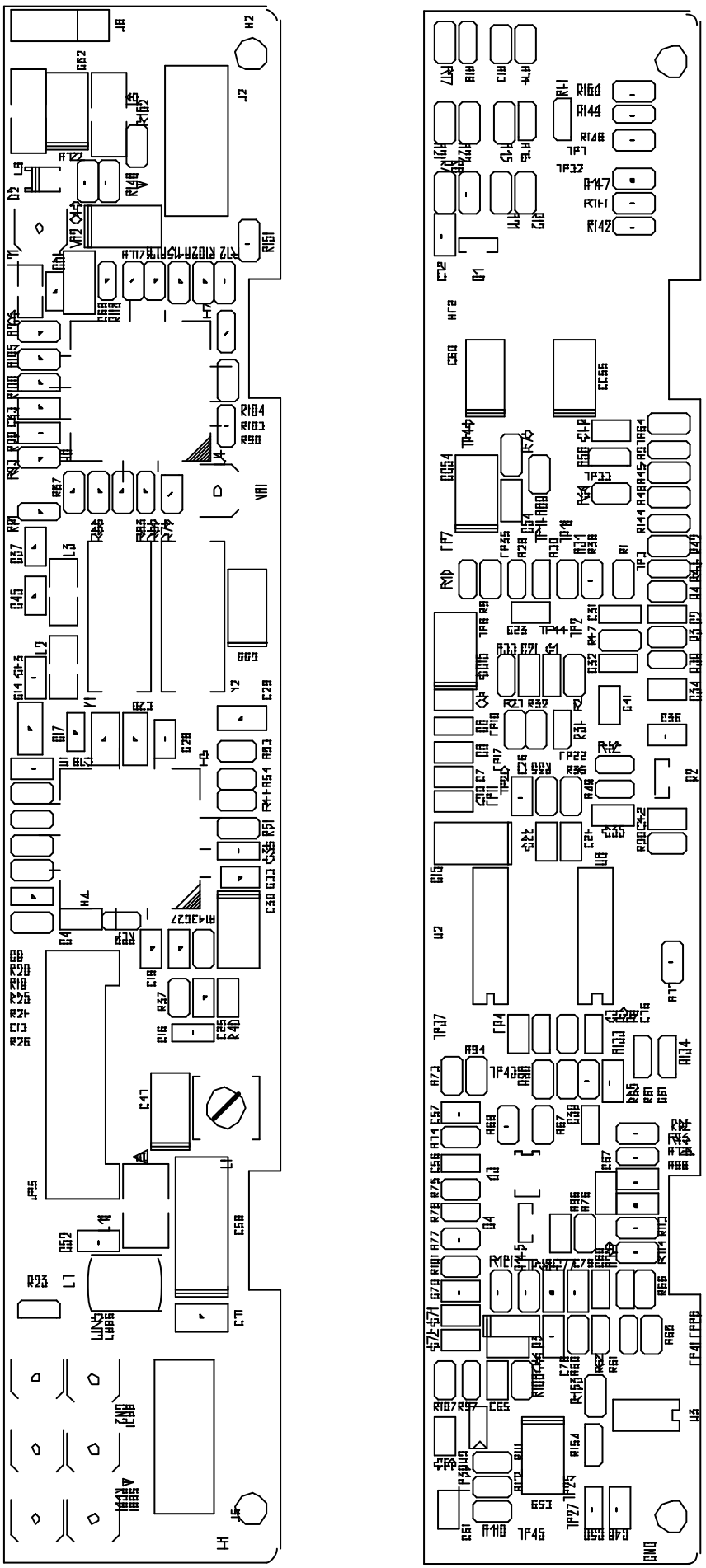
LCD DRIVE BOARD



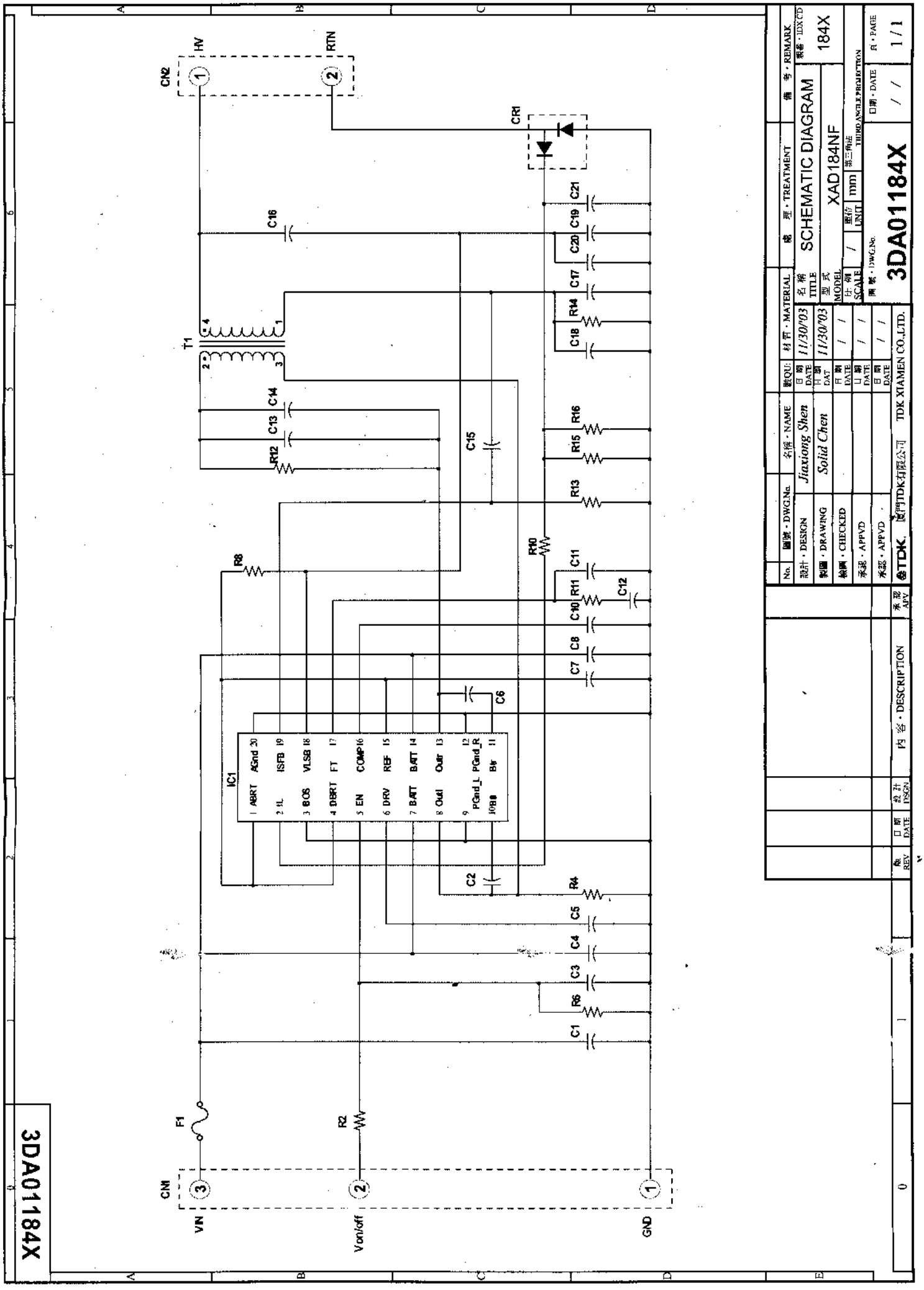
LCD DRIVE BOARD



LCD DRIVE BOARD

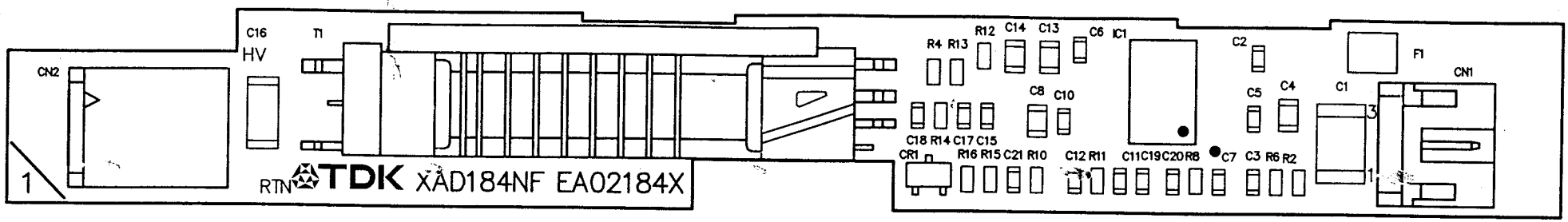


BOOST BOARD

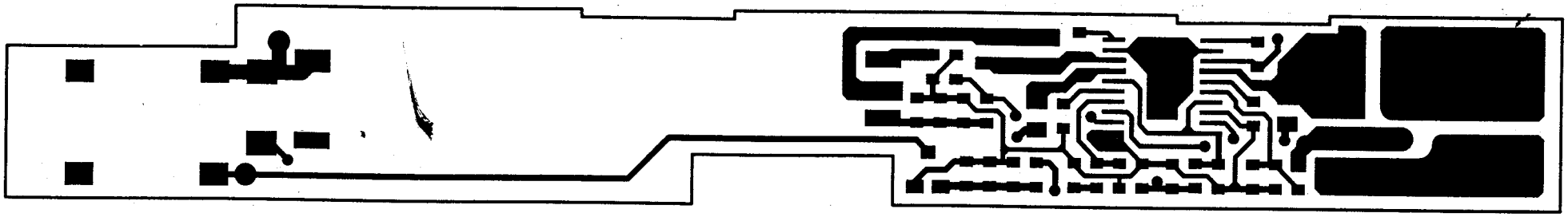

CN2
HV
RTN
CR1
C16
C21
C19
C20
C17
R14
C18
T1
C14
C13
R12
C15
R16
R15
R13
R10
R8
C11
C12
R11
C10
C8
C7
C6
IC1
ABRT
AGnd
ISFB
VLSB
FT
COMP
REF
BATT
Outr
PGnd_L
PGnd_R
Bst
C2
R4
C5
C4
C3
R6
C1
F1
R2
CN1
VIN
Von/off
GND
No.
設計 · DESIGN
製圖 · DRAWING
檢圖 · CHECKED
承認 · APPVD
名稱 · NAME
Jiaxiong Shen
Solid Chen
材質 · MATERIAL
11/30/03
11/30/03
處理 · TREATMENT
名稱 TITLE
SCHEMATIC DIAGRAM
型式 MODEL
XAD184NF
比例 SCALE
/
單位 UNIT
mm
第三角法 THIRD ANGLE PROJECTION
圖號 · DWG.No.
3DA01184X
備考 · REMARK
184X
頁 · PAGE
1 / 1
TDK
TDK XIAMEN CO.,LTD.
內容 · DESCRIPTION
3DA01184X

BOOST BOARD

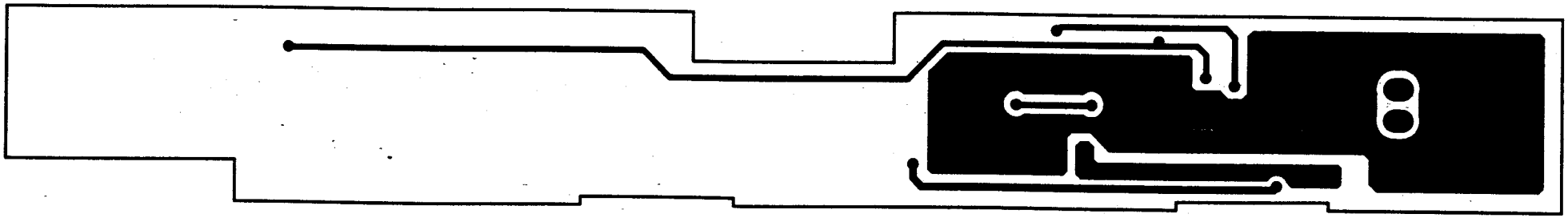
Top Overlay



TopLayer



BottomLayer



No.	圖號・DWG.No.	名稱・NAME	數QU:	材質・MATERIAL	處　理・TREATMENT	備　考・REMARK
設計・DESIGN		Jiaxiong Shen	日期 DATE	11/30/'03	名稱 TITLE	COMPONENT LOCATION
製圖・DRAWING		Solid Chen	日期 DAT	11/30/'03	型式 MODE	XAD184NF
檢圖・CHECKED			日期 DATE	/ /	比例 SCALE	/
承認・APPVD			日期 DATE	/ /	單位 UNIT	mm
承認・APPVD			日期 DATE	/ /	第三角法	THIRD ANGLE PROJECTION

版 REV	日期 DATE	設計 DSGN	內　容・DESCRIPTION	承認 APV
0	1			

TDK. 廈門TDK有限公司 TDK XIAMEN CO.,LTD.

圖號・DWG.No. 3KB01184X

日期・DATE / /

頁・PAGE 1/1

視番・IDX CD 184X

30

PARTS LIST

IDX. CD.						
	184X		XAD184NF			
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 IN30652203	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	

REV.	DATE	DESCRIPTION	DRAWN	APV.

TITLE: ELECTRICAL PARTS LIST

MODEL: **XAD184NF**

		DATE
DESIGNED	*Jiaxiong Shen*	01/30/'04
DRAWN	*Jiaxiong Shen*	01/30/'04
CHECKED		/ /
APPVD.		/ /
APPVD.		/ /

TDK XIAMEN CO., LTD.
POWER MFG. DEPT.
321~339, Tongji Sounth RD., Jimei Dist., Xiamen,
Fujian, P.R.China

DATE / /

DWG. NO. **4CA01184X**

PAGE 1/2

PARTS LIST

IDX. CD.							
	184X		XAD184NF				
	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 10UI-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 Darwing Refer to 4LC12073X						

REV.	DATE	DESCRIPTION	DRAWN	APV.

TITLE:	ELECTRICAL PARTS LIST	
MODEL:	XAD184NF	
DESIGNED		DATE / /
DRAWN		/ /
CHECKED		/ /
APPVD.		/ /
APPVD.		/ /
DWG. NO.	4CA01184X	PAGE 2/2

TDK XIAMEN CO., LTD.
POWER MFG. DEPT.
321~339, Tongji Sounth RD., Jimei Dist., Xiamen,
Fujian, P.R.China

DATE / /

9.DL373D MATERIAL LIST

DL373D MATERIAL LIST

1. LCD DRIVE BOARD

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	7	R45,R90,R91,R100,R143,C32,R141
0090222	SMD RESISTOR	1/16W 160Ω ±5% 0603	PCS	2	R64,R57
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	3	R30,R31,R33
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	10	R27,R32,R34,R81,R103,R104,R105,R106,R133,R134
0090009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	1	R49
0090012	SMD RESISTOR	1/16W 560Ω ±5% 0603	PCS	8	R26,R72,R83,R88,R92,R95,R113,R114
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	10	R36,R25,R41,R79,R80,R85,R86,R87,R93,R94
0090016	SMD RESISTOR	1/16W 1.5K ±5% 0603	PCS	1	R52
0090253	SMD RESISTOR	1/16W2.4K ±5% 0603	PCS	1	R121
0090021	SMD RESISTOR	1/16W 6.8K ±5% 0603	PCS	1	R122
0090183	SMD RESISTOR	1/16W 3K ±5% 0603	PCS	2	R68,R35
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	5	R110,R112,R145,R146,R144
0090225	SMD RESISTOR	1/16W 5.6K ±5% 0603	PCS	2	R44,R50
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	9	R6,R28,R29,R62,R66,R71,R76,R77,R107
0090187	SMD RESISTOR	1/16W 12K ±5% 0603	PCS	1	R9
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	8	R5,R10,R19,R22,R73,R74,R78,R53
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	3	R7,R18,R37
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	6	R8,R17,R21,R60,R65,R54
0090026	SMD RESISTOR	1/16W 22K ±5% 0603	PCS	2	R11,R13
0090255	SMD RESISTOR	1/16W24K±5% 0603	PCS	1	R102
0090027	SMD RESISTOR	1/16W 27K ±5% 0603	PCS	3	R15,R23,R14
0090189	SMD RESISTOR	1/16W 30K ±5% 0603	PCS	1	R58
0090028	SMD RESISTOR	1/16W 33K ±5% 0603	PCS	2	R4,R12
0090190	SMD RESISTOR	1/16W 36K ±5% 0603	PCS	1	R16
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	3	R20,R67,R61
0090029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	2	R2,R109
0090030	SMD RESISTOR	1/16W 56K ±5% 0603	PCS	2	R1,R59
0090032	SMD RESISTOR	1/16W 68K ±5% 0603	PCS	2	R3,R111
0090193	SMD RESISTOR	1/16W 82K ±5% 0603	PCS	1	R108
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	1	R70
0090200	SMD RESISTOR	1/16W 200K ±5% 0603	PCS	1	R75
0090205	SMD RESISTOR	1/16W 330K ±5% 0603	PCS	2	R39,R38
0090212	SMD RESISTOR	1/16W 750K ±5% 0603	PCS	1	R40
0310234	SMD CAPACITOR	16V 105 +80%-20% 0603	PCS	1	C27
0090208	SMD RESISTOR	1/16W 470K ±5% 0603	PCS	1	R24
0090109	SMD RESISTOR	1/16W 1MΩ ±5% 0603	PCS	3	R51,R97,R101
0090219	SMD RESISTOR	1/16W 10MΩ ±5% 0603	PCS	1	R47
0160158	ROTATED POTENTIOMETER	W203-10K±20%	PCS	8	VR1,SBR1,SBB1,RGB1,CNT1,BRT1,VR2,GM2
0310219	SMD CAPACITOR	16V 106 +80%-20% 1206	PCS	11	C30,C40,C47,C55,C59,C60,C62,CC15,CC54,CC55,C15
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	2	C58,C81
0310042	SMD CAPACITOR	50V 15P ±5% NPO 0603	PCS	2	C22,C24
0310043	SMD CAPACITOR	50V 22P ±5% NPO 0603	PCS	1	C64
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	4	C77,C78,C79,C80
310192	SMD CAPACITOR	50V 56P ±5% NPO 0603	PCS	2	C38,C43
0310046	SMD CAPACITOR	50V 82P ±5% NPO 0603	PCS	1	C42
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	1	C45
0310049	SMD CAPACITOR	50V 221 ±5% NPO 0603	PCS	2	C56,C57
0310052	SMD CAPACITOR	50V 391 ±5% NPO 0603	PCS	1	C61
0310197	SMD CAPACITOR	50V 561 ±10% 0603	PCS	1	C65
0310054	SMD CAPACITOR	50V 681 ±5% NPO 0603	PCS	1	C31
0310215	SMD CAPACITOR	50V 821 ±10% 0603	PCS	1	C13
0310068	SMD CAPACITOR	50V 222 ±10% 0603	PCS	1	C70
0310071	SMD CAPACITOR	50V 682 ±10% 0603	PCS	1	C25
0310072	SMD CAPACITOR	50V 103 ±10% 0603	PCS	15	C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C12,C28,C33,C34,C35
0310056	SMD CAPACITOR	16V 473 ±10% 0603	PCS	1	C41

0310207	SMD CAPACITOR	50V104 ±20% 0603	PCS	18	C16,C17,C19,C21,C23,C36,C37,C39,C49,C50,C51,C52,C54,C66,C67,C69,C72,C76
0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	18	C16,C17,C19,C21,C23,C36,C37,C39,C49,C50,C51,C52,C54,C66,C67,C69,C72,C76
0310170	SMD CAPACITOR	25V 474 ±20% 0805	PCS	1	C29
0310163	SMD CAPACITOR	50V 474 +80-20% 0805	PCS	1	C29
0310368	SMD CAPACITOR	25V 105+80%-20% 0805	PCS	4	C11,C14,C18,C20
0310217	SMD CAPACITOR	16V 225 +80%-20% 1206	PCS	1	C68
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	13	R69,R115~R118,R147~R154
0390042	SMD INDUCTOR	1.2UH ±10% 2012	PCS	1	L11
0390199	SMD INDUCTOR	22uH ±10% 3216	PCS	2	L2,L3
0390215	SMD INDUCTOR	33uH±10% 3225	PCS	3	L8,L9,L10
0390198	SMD MAGNETIC-CORE INDUCTOR	150uH ±10% CR32	PCS	1	L7
0390202	SMD MAGNETIC-CORE INDUCTOR	23uH±20% CP-4L2	PCS	1	L1
0700052	SMD DIODE	MA335	PCS	1	D2
0780209	SMD TRIODE	2SB709A	PCS	2	Q2,Q4
0780210	SMD TRIODE	XN4501	PCS	1	Q3
0780204	SMD TRIODE	2SC2412K	PCS	1	Q1
0881533	IC	IR3Y29B QFP	PCS	1	U1
0880743	IC	BU4053BCF SOP	PCS	2	U2,U8
0881539	IC	NJM3414AM SOP	PCS	1	U3
0881540	IC	UPS017 QFP	PCS	1	U4
0881538	IC	NJM2107 SOP	PCS	1	U5
0960212	SMD CRYSTAL OSCILLATOR	3.58MHz 49-S	PCS	1	Y1
960213	SMD CRYSTAL OSCILLATOR	4.43MHz 49-S	PCS	1	Y2
1940152	SOCKET	8P 1.0mm SMD	PCS	2	J2,J5
1940194	CABLE SOCKET	26P 0.5mm SMD WITH CLASP	PCS	1	JP5
0700072	SMD VOLTAGE REGULATOR DIODE	6.8V150mW SOD-323	PCS	1	D3
0700007	SMD DIODE	1N4148	PCS	1	D1
1631638	PCB	C373A-4	PCS	1	

2. SUBSIDIARY POWER BOARD

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	2	C501,C502
0310549	SMD CERAMIC CAPACITOR	25V 106+80%-20% 1210	PCS	1	TC501
1870021	POWER SOCKET	DC-023	PCS	1	JK501
2300020	SMD FUSE	3A 250V	PCS	1	F501
2300023	SMD FUSE	T3AL 125V	PCS	1	F501
2110477	DUAL-LEAD	20# 50mm RED AND BLACK	PCS	1	
1631423	PCB	F373-2	PCS	1	

3. MAIN BOARD

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5%	PCS	1	R403
0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	1	C401
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C402,C403
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	1	TC401
0700002	SMD DIODE	LL4148	PCS	3	VD401,VD402,VD403
0700001	SMD DIODE	LS4148	PCS	3	VD401,VD402,VD403
0700007	SMD DIODE	1N4148	PCS	3	VD401,VD402,VD403
0970003	CERAMIC RESONATOR	455E	PCS	1	X401
0881587	IC	PT2222A SOP	PCS	1	U401
1940150	SOCKET	4P 1.0mm SMD	PCS	1	XS401
0780129	SMD TRIODE	8550D	PCS	1	V401
0090023	SMD RESISTOR	1/16W 10K ±5%	PCS	1	R401
1631422	PCB	4373-2	PCS	1	

4. SWITCH BOARD

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1350053	TESTING SWITCH	SPVE110600	PCS	1	SW201
2110069	DUAL-LEAD	26# 90mm RED AND BLACK	PCS	1	
1563041	PCB	9373-2	PCS	1	

5. BATTERY CHARGER

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090536	SMD RESISTOR	1/8W0.27Ω±5% 1206	PCS	5	RB19,RB20,RB21,RB48,RB49
0090003	SMD RESISTOR	1/16W 10Ω ±5%	PCS	1	RB6
0090135	SMD RESISTOR	1/8W 100Ω ±5% 1206	PCS	2	RB42,RB44
0090011	SMD RESISTOR	1/16W 470Ω ±5%	PCS	2	RB16,RB25
0090488	SMD RESISTOR	1/8W 470Ω±5% 1206	PCS	3	RB12,RB13,RB5
0090014	SMD RESISTOR	1/16W 1K ±5%	PCS	6	RB10,RB33,RB34,RB35,RB36,RB9
0090541	PRECISION SMD RESISTOR	1/16W 2.2K ±1% 0603	PCS	1	RB18
1050006	SMD THERMISTOR	PTC LP-MSM200 1812	PCS	1	F1
3027181	SPACER	DL373	PCS	1	POWER CONNECTION CORD AND FRONT PANEL PCB
0090171	SMD RESISTOR	1/8W 1K ±5% 1206	PCS	1	RB4
0090017	SMD RESISTOR	1/16W 2.2K ±5%	PCS	1	RB43
0090018	SMD RESISTOR	1/16W 3.3K ±5%	PCS	2	RB7,RB32
0090019	SMD RESISTOR	1/16W 4.7K ±5%	PCS	4	RB39,RB41,RB8,RB31
0090023	SMD RESISTOR	1/16W 10K ±5%	PCS	10	RB1~RB3,RB14,RB22,RB28~RB30,RB38,RB40
0090304	PRECISION SMD RESISTOR	1/16W 10K±1% 0603	PCS	2	RB46,RB47
0090029	SMD RESISTOR	1/16W 47K ±5%	PCS	1	RB15
0090201	SMD RESISTOR	1/16W 220K ±5%	PCS	1	RB11
0090024	SMD RESISTOR	1/16W 15K ±5%	PCS	1	RB17
0090490	PRECISION SMD RESISTOR	1/16W 22K±1% 0603	PCS	2	RB23,RB26
0090109	SMD RESISTOR	1/16W 1MΩ ±5%	PCS	1	RB27
					RB24/RB27 PARAMETER SPOT TEST 1M~4.7M
0090233	SMD RESISTOR	1/16W 4.7MΩ ±5%	PCS	1	RB37
0310594	SMD CAPACITOR	25V 104 ±10% 0603	PCS	8	CB8,CB11~CB13,CB16~CB18,CB9
0310230	SMD CAPACITOR	50V 474 +80%-20% 0603	PCS	4	CB4,CB5,CB14,CB15
0310379	SMD CAPACITOR	25V 474 +80%-20% 0603	PCS	4	CB4,CB5,CB14,CB15
0310217	SMD CAPACITOR	16V 225 +80%-20% 1206	PCS	3	CB1,CB2,CB10
0260200	CD	CD11C 16V47U±20%5×7 2	PCS	1	CB3
0260181	CD	CD11 16V220U±20%6×12 C5	PCS	2	CB7,CB6
0410139	CHOKE COIL	VERTICAL 30UH 3A 15mm	PCS	1	LB1
0780129	SMD TRIODE	8550D	PCS	1	QB3
0780085	SMD TRIODE	8050D	PCS	6	QB2,QB4,QB5,QB10,QB11,QB12
0680028	SMD SCHOTTKY DIODE	MBRS340	PCS	1	DB2
0580034	VOLTAGE REGULATOR DIODE	10V 1W	PCS	1	ZB1
0700001	SMD DIODE	LS4148	PCS	1	DB5
0700002	SMD DIODE	LL4148	PCS	1	DB5
0700007	SMD DIODE	1N4148	PCS	1	DB5
0790021	FIELD EFFECT TRANSISTOR	IRF7416 SOP	PCS	1	QB1
0790040	FIELD EFFECT TRANSISTOR	UPA1870 SSOP	PCS	1	QB7/Q8
0790039	FIELD EFFECT TRANSISTOR	IRF7316 S08	PCS	1	QB6/QB9
0790042	FIELD EFFECT TRANSISTOR	CEM4953 SO8	PCS	1	QB6/QB9
0882089	IC	TL431 TO-92	PCS	1	IC2
0881940	IC	S3F9454 SOP(373)	PCS	1	IC1
0881535	IC	S8232 SOP	PCS	1	IC3
0880176	IC	LM358M SOP	PCS	1	LM358
0620032	DOUBLE-COLOR RADIATION BOARD	2RG 59SW RED AND GREEN 2×5×7	PCS	1	DB3/DB4
1870021	POWER SOCKET	DC-023	PCS	1	DCB_IN1
1860044	POWER ADAPTOR	4P2.5MM LIN-0402-040-100	PCS	1	T14
1631539	PCB	B373-4	PCS	1	

5. CAR ADAPTOR

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
1562715	PCB	D333-1	PCS	1	
5070678	SELF-SEALED PLASTIC BAG FOR ENVIRONMENTAL PROTECTION (WITH HOLE)	120×260×0.05 PE	PCS	1	
2140139	POWER CONNECTION CORD	2P2.5m WITH Φ4.0 DC SOCKET	PCS	1	P+,P-
5232167	INSULATION PIPE	Φ2 WHITE	PCS	0.024	
3031156	TOP COVER OF CAR ADAPTOR CASE	AK008 BLACK	PCS	1	

3040843	BOTTOM COVER OF CAR ADAPTOR CASE	AK008 BLACK	PCS	1	
3870754	WASHER	AK008	PCS	1	
3870755	TOUCH HEAD	AK008	PCS	1	
3630186	SHRAPNEL	AK008	PCS	2	
3810034	SPRING	AK008	PCS	1	
3870756	FUSE HOLDER	AK008	PCS	1	
3060299	TOUCH HEAD COVER	AK008 BLACK	PCS	1	
2110002	LEAD	24# 30mm RED	PCS	2	
2110004	LEAD	24# 40mm BLACK	PCS	1	
2300018	FUSE	T3.15AL 250V（VDE/UL）	PCS	1	
5232168	DUST-PROOF NET	AK008 BLACK	PCS	4	

6. POWER ADAPTOR

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0570005	DIODE	1N4007	PCS	4	D3,D5,D6,D7
0090036	SMD RESISTOR	1/10W 0Ω ±5%	PCS	1	R8
2100003	CONNECTION CORDS	Φ0.6 SHAPED 7.5mm	PCS	1	RT1
90050	SMD RESISTOR	1/10W 1K ±5%	PCS	1	R17
0570006	DIODE	1N4148	PCS	1	D4
0090055	SMD RESISTOR	1/10W 3.3K ±5%	PCS	1	R14
0090038	SMD RESISTOR	1/10W 6.8Ω ±5%	PCS	1	R10
0090177	SMD RESISTOR	1/10W 16K ±5%	PCS	1	R6
0010238	METAL OXIDE FILM RESISTOR	1W 22Ω±5%	PCS	1	R2
0090125	SMD RESISTOR	1/8W 22Ω ±5%	PCS	2	R15,R19
0090099	SMD RESISTOR	1/10W 150Ω ±5%	PCS	1	R9
0260029	CD	CD11 16V470U±20%8×123.5	PCS	1	C15
0260163	CD	CD11 50V47U±20%6×12 2.5	PCS	1	C11
0090148	SMD RESISTOR	1/10W 510Ω ±5%	PCS	1	R11
0200277	PORCELAIN CAPACITOR	1000V222±20% SHAPED 7.5mm	PCS	1	C9
0200336	PORCELAIN CAPACITOR	1000V 472± 20% 5mm	PCS	1	C4
0200224	PORCELAIN CAPACITOR	1000V 103 +80%-20% 7.5mm	PCS	1	C16
0310038	SMD CAPACITOR	50V 104 +80%-20% 0805	PCS	4	C8,C10,C12,C17
0090496	SMD RESISTOR	1/8W 1MΩ±5% 1206	PCS	2	R4,R7
0090497	SMD RESISTOR	1/8W 4.3MΩ±5% 1206	PCS	2	R3,R5
0090274	PRECISION SMD RESISTOR	1/10W 10K±1% 0805	PCS	1	R13
0260247	CD	GZ 16V1000U±20%10×20 5	PCS	2	C13,C14
0460352	SWITCHING POWER TRANSFORMER	BCK2801A-730	PCS	1	T1
0680048	SCHOTTKY DIODE	SR1060 TO-220	PCS	1	D2
0090494	PRECISION SMD RESISTOR	1/10W 27K±1% 0805	PCS	1	R12
0570014	DIODE	HER107	PCS	1	D1
1080011	PHOTOELECTRIC COUPLER	HS817	PCS	1	IC2
0620025	RADIATION DIODE	3R 4SD RED	PCS	1	LED
0880553	IC	LM431ACZ TO-92	PCS	1	IC3
2300021	FUSE	T1.6AL 250V WITH PIN	PCS	1	F1
0090495	PRECISION SMD RESISTOR	1/10W 510Ω±1% 0805	PCS	1	R18
0881870	IC	TOP246Y TO-262-7C	PCS	1	IC1
0010241	METAL OXIDE FILM RESISTOR	2W68K±5%	PCS	1	R1
1870029	POWER SOCKET	SA-2S（UL）	PCS	1	BNC501
1000025	POWER GRID FILTER	UU16 30mH +∞-0% 10×13	PCS	1	L1
0210066	TERYLENE CAPACITOR	275V 104 ±20% 15mm	PCS	1	C3
0200229	CERAMIC CAPACITOR	400VAC 471 ±10% 10mm	PCS	3	C1,C2,C7
0390272	MAGNETIC STICK INDUCTOR	5.6uH±10% 3A ϕ5×20 5mm	PCS	1	L2
0390273	COMMON-MODE INDUCTOR	75uH±25%3A ϕ9×ϕ5×3 4mm	PCS	1	L3
0260535	CD	GS 400V68U±20%16×30 7.5	PCS	1	C5
1563081	PCB	5333A-2	PCS	1	
3580109	HEAT RADIATION BOARD (L)	86×22×2 AK009	PCS	1	LEFT
3580110	HEAT RADIATION BOARD (R)	86×22×2 AK009	PCS	1	RIGHT
4230014	SCREW	FM 3×8 WHITE NICKEL	PCS	2	ONE HEAT RADIATION PIECE FOR L/R EACH
4400001	NUT	M3	PCS	2	ONE HEAT RADIATION PIECE FOR L/R EACH
5232339	INSULATION ADHESIVE TAPE	PZ-281 L 60m W 45mm DARK YELLOW	ROLL	0.0025	0.0025 FOR USE
5232126	INSULATION ADHESIVE TAPE	PZ-281 L60m W55mm DARK YELLOW	ROLL	0.0025	0.0025 FOR USE
2140138	POWER CONNECTION CORD	2P1.5m WITH Φ4.0 DC SOCKET STRING MAGNETIC RING	PCS	1	P-，P+
4630650	SILICA GEL PIECE	18×13×0.3 HOLE ϕ3	PCS	2	

5232343	INSULATION SPACFER	AK009	PCS	1	

6. BATTERY CASE

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
3028760	TOP COVER OF BATTERY CASE	L250(ES) SILVERY [1379C] 3#	PCS	1	
3027815	BOTTOM COVER OF BATTERY CASE	L250(ES) SILVERY [1379C]	PCS	1	
3025617	GLIDING PIECE	DL333	PCS	1	
3025618	BUTTON	DL333	PCS	1	
3027816	BUTTON	L250(ES) SILVERY [1379C]	PCS	1	
3810023	GLIDING PIECE SPRING	DL333	PCS	2	
3810024	BUTTON SPRING	DL333	PCS	1	
5232843	SOFT SPONGE SPACER	150×85×1 SINGLE-FACED, SOFT	PCS	1	1PC FOR TOP COVER OF BATTERY CASE
5232022	FOOT SPACER	ф10×1RUBBER（3M RUBBER）	PCS	4	
4000354	TAPPING SCREW	PB 1.7×6 NICKEL	PCS	1	1PC FOR BATTERY PCB AND BOTTOM COVER
4000522	TAPPING SCREW	CB 2×6H WHITE NICKEL	PCS	4	2PCS FOR BATTERY DLIDING PIECE AND BATTERY BUTTON, 2PCS FOR BATTERY PCB AND BOTTOM COVER

7. REMOTE CONTROLLER

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C802,C803
0630009	EMISSION PIPE	TSAL4400	PCS	1	LED801
0630010	EMISSION PIPE	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	
3030522	REMOTE CONTROLLER PANEL	RC017GREY WHITE	PCS	1	
3040436	BOTTOM COVER OF REMOTE CONTROLLER	RC017 GREY WHITE	PCS	1	
3050356	BATTERY CASE DOOR OF REMOTE CONTROLLER	RC017 GREY WHITE	PCS	1	
3630135	ANODE SHRAPNEL OF REMOTE CONTROLLER	RC017	PCS	1	
3630136	CATHODE SHRAPNEL OF REMOTE CONTROLLER	RC017	PCS	1	
4000291	TAPPING SCREW	BB2×5 NICKEL	PCS	4	
4630557	ELECTRIC CONDUCTING GLUE OF REMOTE CONTROLLER	DVP-307	PCS	1	
5070004	PLASTIC BAG	75×200	PCS	1	
5152319	BOTTOM COVER LABEL	RC017R	PCS	1	
5154264	PANEL STICKET OF REMOTE CONTROLLER	DL373D(RU)	PCS	1	

8. DECODE BOARD

ATERIAL COI	MATERIAL NAME	SPECIFICATIONS	UNIT	QUANTITY	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω ±5% 0603	PCS	21	R231,L302,R128,R129,R130,R140,R226,R227,R230,R302,R303,R304,R305,R362,R364,R547,R262,R249,R365,R357,R358
0090236	SMD RESISTOR	1/16W 1.8K ±5% 0603	PCS	1	R545
0090272	SMD RESISTOR	1/16W1Ω±5% 0603	PCS	7	R116~R122
0090106	SMD RESISTOR	1/16W 4.7Ω ±5% 0603	PCS	3	R111,R112,L206
0090003	SMD RESISTOR	1/16W 10Ω ±5% 0603	PCS	1	R113
0090005	SMD RESISTOR	1/16W 33Ω ±5% 0603	PCS	13	R142,R143,R145,R218,R219,R223,R224,R254,L205,R255~R257,R346
0090230	SMD RESISTOR	1/16W 47Ω ±5% 0603	PCS	2	R126,R127
0090014	SMD RESISTOR	1/16W 1K ±5% 0603	PCS	26	R214,R319,R327,R329~R333,R336~R339,R341~R343,R517,R518,R523,R524,R546,R109,R110,R114,R136,R372,R373

0090490	PRECISION SMD RESISTOR	1/16W 22K±1% 0603	PCS	1	R135
0090006	SMD RESISTOR	1/16W 75Ω ±5% 0603	PCS	3	R350,R351,R352
0090181	SMD RESISTOR	1/16W 100Ω ±5% 0603	PCS	1	R522
0090183	SMD RESISTOR	1/16W 3K ±5% 0603	PCS	1	R514
0090019	SMD RESISTOR	1/16W 4.7K ±5% 0603	PCS	12	R133,R134,R245,R246,R247,R251,R253,R314,R315,R324,R325,R367
0090232	SMD RESISTOR	1/16W 150Ω ±5% 0603	PCS	1	R345
0090009	SMD RESISTOR	1/16W 330Ω ±5% 0603	PCS	5	R318,R328,R526,R527,L303
0090023	SMD RESISTOR	1/16W 10K ±5% 0603	PCS	21	R103~R107,R144,R240~R242,R312,R313,R347,R506~R512,R539,R340
0090502	PRECISION SMD RESISTOR	1/16W11K±1% 0603	PCS	2	R310,R311
0090024	SMD RESISTOR	1/16W 15K ±5% 0603	PCS	5	R137,R201,R202,R308,R309
0090188	SMD RESISTOR	1/16W 18K ±5% 0603	PCS	1	R243
0090025	SMD RESISTOR	1/16W 20K ±5% 0603	PCS	4	R123,R124,R244,R513
0090481	PRECISION SMD RESISTOR	1/16W 30K±1% 0603	PCS	3	R505,R359,R360
0090127	SMD RESISTOR	1/8W 330Ω ±5% 1206	PCS	3	R370,R371,TC511
0090028	SMD RESISTOR	1/16W 33K ±5% 0603	PCS	2	R316,R317
0090191	SMD RESISTOR	1/16W 39K ±5% 0603	PCS	1	R326
0090029	SMD RESISTOR	1/16W 47K ±5% 0603	PCS	3	R138,R139,R322
0090192	SMD RESISTOR	1/16W 51K ±5% 0603	PCS	2	R501,R542
0090034	SMD RESISTOR	1/16W 100K ±5% 0603	PCS	9	R101,R102,R203,R204,R320,R321,R348,R349,R502
0090012	SMD RESISTOR	1/16W 560Ω ±5% 0603	PCS	1	R236
0090212	SMD RESISTOR	1/16W 750K ±5% 0603	PCS	1	R216
0100019	SMD RESISTOR NETWORKS	1/16W33Ω ±5% 8P	PCS	5	RN201,RN202,RN204,RN205,RN301
0260004	CD	CD11 25V220U±20%8×12 C5	PCS	1	TC501
0310383	SMD TANTALUM CAPACITOR	25V33U±20%7343(D)	PCS	1	TC506
0310375	SMD TANTALUM CAPACITOR	16V100UF±20% 7343(D)	PCS	8	TC102,TC301,TC321,TC322,TC502,TC503,TC512,TC518
0310548	SMD TANTALUM CAPACITOR	6.3V100UF±20% 3528(B2)	PCS	1	TC505
0310374	SMD TANTALUM CAPACITOR	16V47UF±20% 6032(C)	PCS	1	TC315
0310390	SMD TANTALUM CAPACITOR	16V10U±20% 3216	PCS	4	TC204,TC205,TC302,TC311
0310654	SMD CERAMIC CAPACITOR	25V106+80%-20%Y5V1206	PCS	4	TC519,TC520,TC515,TC516
0310376	SMD TANTALUM CAPACITOR	NRS10V47U±20%3528(B2)	PCS	22	TC103~TC106,TC108,TC109,TC201~TC203,TC207~TC209,TC312,TC314,TC316,TC318,TC319,TC326~TC328,TC513,TC329
0310179	SMD TANTALUM CAPACITOR	6.3V 22UF ±20% 3528	PCS	2	TC101,TC210
0310351	SMD TANTALUM CAPACITOR	10V220U±20%7343(D)	PCS	2	TC206,TC517
0310083	SMD CAPACITOR	50V 20P ±5% 0603	PCS	4	C258,C342~C344
0310190	SMD CAPACITOR	50V 27P ±5% NPO 0603	PCS	9	C330~C332,C533,C101,L324,R206,C263,C264
0310205	SMD CAPACITOR	50V 473 ±10% 0603	PCS	2	C259,C260
0310059	SMD CAPACITOR	50V 15P ±5% 0603	PCS	4	C265~C268
0310045	SMD CAPACITOR	50V 47P ±5% NPO 0603	PCS	4	C120,C333~C335
0310047	SMD CAPACITOR	50V 101 ±5% NPO 0603	PCS	4	C336~C338,C535
0310193	SMD CAPACITOR	50V 68P ±5% NPO 0603	PCS	2	C319,C320
0310048	SMD CAPACITOR	50V 151 ±5% NPO 0603	PCS	2	C123,C124
0310051	SMD CAPACITOR	50V 331 ±5% NPO 0603	PCS	2	C274,C275
0310066	SMD CAPACITOR	50V 102 ±10% 0603	PCS	7	C257,C262,C315,C316,C321,C322,C541
0310067	SMD CAPACITOR	50V 152 ±10% 0603	PCS	3	C276,C317,C318
0310069	SMD CAPACITOR	50V 272 ±10% 0603	PCS	1	C327
0310198	SMD CAPACITOR	50V 472 ±10% 0603	PCS	1	C534
0310072	SMD CAPACITOR	50V 103 ±10% 0603	PCS	2	C122,C273
0310201	SMD CAPACITOR	50V 153 ±10% 0603	PCS	1	C272
0310204	SMD CAPACITOR	50V 333 ±10% 0603	PCS	1	C256
0310055	SMD CAPACITOR	16V 333 ±10% 0603	PCS	1	C256

0310084	SMD CAPACITOR	50V 104 +80%-20% 0603	PCS	94	C103~C117,C126,C201~C204,C206,C208,C209,C211~C248,C269,C301~C311,C501~C505,C507~C512,C514~C517,C519,C537~C539,C102,C540
0310058	SMD CAPACITOR	25V 104 +80%-20% 0603	PCS	94	C103~C117,C126,C201~C204,C206,C208,C209,C211~C248,C269,C301~C311,C501~C505,C507~C512,C514~C517,C519,C537~C539,C102,C540
0310112	SMD CAPACITOR	16V 224 ±10% 0603	PCS	2	C523,C524
0310379	SMD CAPACITOR	25V 474 +80%-20% 0603	PCS	8	C261,C339~C341,C525~C528
0310234	SMD CAPACITOR	16V 105 +80%-20% 0603	PCS	11	C249,C252~C255,C346~C349,C521,C522
0310169	SMD CAPACITOR	50V 105 +80%-20% 0805	PCS	4	C529~C532
0310219	SMD CAPACITOR	16V 106 +80%-20% 1206	PCS	14	TC303~TC310,TC317,TC320,TC507~TC509,TC107
0310654	SMD CERAMIC CAPACITOR	25V106+80%-20%Y5V1206	PCS	14	TC303~TC310,TC317,TC320,TC507~TC509,TC107
0390096	SMD INDUCTOR	1.8UH ±10% 1608	PCS	3	L328~L330
0390044	SMD INDUCTOR	10UH ±10% 2012	PCS	4	L109,L117,L118,L308
0390241	SMD MAGNETIC-CORE INDUCTOR	10uH±20%CDRH5D18	PCS	2	L318,L511
0390302	SMD MAGNETIC BEADS	MGHB1608S102	PCS	46	L102~L106,L108,L110~L116,L119,L201~L204,L207~L214,L216,L301,L304~L307,L309~L317,L326,L327,L507,L514,R261
0390259	SMD MAGNETIC BEADS	FCM2012-120T2A	PCS	12	L101,L120,L325,L501,L504,L505,L508,L509,L515,L516,L517,L107
0390338	SMD MAGNETIC-CORE INDUCTOR	22UH±30% CDRH8D38	PCS	1	L503
0390328	SMD MAGNETIC-CORE INDUCTOR	2.2UH±10% CDH5B18	PCS	1	L512
0390261	SMD MAGNETIC-CORE INDUCTOR	5.4UH±20% CDRH5D18	PCS	1	L502
0700007	SMD DIODE	1N4148	PCS	4	VD101,VD301~VD303
0700001	SMD DIODE	LS4148	PCS	4	VD101,VD301~VD303
0700002	SMD DIODE	LL4148	PCS	4	VD101,VD301~VD303
0700056	SMD DUAL DIODE	MMBD4148SE SOT-23	PCS	3	VD304~VD306
0700063	SMD DUAL DIODE	MMBD4148CA SOT-23	PCS	1	VD201
0680027	SMD SCHOTTKY DIODE	SS34	PCS	1	VD501
0680028	SMD SCHOTTKY DIODE	MBRS340	PCS	2	VD502,VD503
0680024	SMD SCHOTTKY DIODE	1N5819（HOMEMADE）	PCS	2	VD502,VD503
0680042	SMD SCHOTTKY DIODE	BAT54S SOT-23	PCS	4	VD505~VD508
0700123	SMD VOLTAGE REGULATOR DIODE	15V 1/2W	PCS	1	ZD501
0700121	SMD VOLTAGE REGULATOR DIODE	10V 1/2W	PCS	1	ZD502
0780085	SMD TRIODE	8050D	PCS	3	Q502,V306,V501
780129	SMD TRIODE	8550D	PCS	5	Q501,V303~V305,V502
780197	SMD TRIODE	C1815	PCS	6	V301,V302,V308,V309,V311,V312
780193	SMD TRIODE	2SK3018	PCS	2	V102,V103
780115	SMD TRIODE	2SB1132	PCS	2	V104,V105
780040	SMD TRIODE	3904	PCS	1	V101
880185	IC	NJM4558M SOP	PCS	1	U305
880562	IC	4580 SOP	PCS	1	U305
880361	IC	4558 SOP	PCS	1	U305
881526	IC	FDS8958A SO8	PCS	1	U501
881415	IC	HY57V641620HGT-7 TSOP	PCS	1	U202
881189	IC	MT48LC4M16A2-7 SOP	PCS	1	U202
882022	IC	CS4340A SOP	PCS	1	U304
881031	IC	24C02N SOP	PCS	1	U101
881855	IC	XC602P502PR SOT-89	PCS	2	U302,U303
881631	IC	XC6201P502PR SOT-89	PCS	2	U302,U303
881914	IC	RT9701CB SOT25	PCS	2	U502,U508
881892	IC	XC6202P802PR SOT-89	PCS	1	U301
881513	IC	BA6849FM HSOP	PCS	1	U103

881682	IC	BA6849FP HSOP	PCS	1	U103
882257	IC	MT1389FE/C(C VERSION) QFP	PCS	1	U201
881405	IC	BA5954FM HSOP	PCS	1	U104
881937	IC	TPA0152 TSSOP24	PCS	1	U306
881913	IC	MAX1775EEE QSOP16	PCS	1	U504
882268	IC	AAT1102M MSOP	PCS	1	U506
882105	IC	LM393 SO8	PCS	1	U105
881182	IC	LM1117MP-ADJ SOT-223	PCS	1	U507
2360016	IR SENSOR	HS0038B3V	PCS	1	U102
960020	CRYSTAL OSCILLATOR	27.00MHz 49-S	PCS	1	X201
1631843	PCB	2373D-3	PCS	1	
1940150	SOCKET	4P 1.0mm SMD	PCS	1	XS102
1940152	SOCKET	8P 1.0mm SMD	PCS	2	XS301,XS302
1940208	CABLE SOCKET	30P 0.5mm SMD WITH CLASP	PCS	1	XS101
1940229	CABLE SOCKET	15P 0.5mm SMD WITH CLASP	PCS	1	XS104
620067	DOUBLE-COLOR RADIATION DIODE	2RG59PC RED AND GREEN 2×4.5×4	PCS	1	LED501
620086	DOUBLE-COLOR RADIATION DIODE	2.5RG59HW-A×5 RED AND GREEN	PCS	1	LED501
1350062	TESTING SWITCH	DS-24	PCS	1	SW501
1090049	TRANSFORMER	GP1FD310TP	PCS	1	JK301
1910101	AV SOCKET	PJ-327 BLACK	PCS	2	JK302,JK306
1910104	AV SOCKET	PJ-327 YELLOW	PCS	1	JK307
1910105	AV SOCKET	PJ-327 WHITE	PCS	1	JK305
1980051	HEADPHONE SOCKET	ST-202A-050-100 YELLOW	PCS	1	JK304