

# HITACHI

## SERVICE MANUAL

SC

No. 0025E

**L32S02A, L32A02A,  
L32E200, L32R200,  
L32E100S,  
L32E101B, L32R100**



### Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury harmful radiation and materials, various measures are provided in this Hitachi LCD TV.  
Be sure to read the cautionary items described in the manual to maintain safety before servicing.

### Service warning

1. Do not attempt to modify this product in any way and never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to your being liable for any resulting property damage or user injury.
2. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines. To do otherwise, increase the risk of potential hazards and injury to the user.
3. While servicing, use an isolation transformer for protection from A.C. line shock.

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**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT**

**LCD Television**

# Safety Notice

Please read this page before repair the TV.

The following safety precautions are designed to help you stay safe and prevent accidents during the repair work.

- Please take note of these cautionary flags.

|                                                                                   |                |                                                                            |
|-----------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------|
|  | <b>Warning</b> | This means " <b>Potential to sustain injury or even death.</b> "           |
|  | <b>Caution</b> | This means " <b>Potential to sustain breakage or irreparable damage.</b> " |

- Also note these cautionary icons

|                                                                                   |                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------|
|  | This means " <b>CAUTION</b> "                  |
|  | This means " <b>POTENTIAL ELECTRIC SHOCK</b> " |

|                                                                                   |                            |
|-----------------------------------------------------------------------------------|----------------------------|
|  | This means " <b>MUST</b> " |
|-----------------------------------------------------------------------------------|----------------------------|

|  <b>WARNING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>■ <b>Follow instructions.</b></p> <p> The cabinet, chassis, and labels are parts that require attention. You must follow the caution notes and safety instructions presented throughout this User Manual to prevent damage to them or injury to yourself.</p>                                                                                                                                                                                        | <p>■ <b>Must use same types of wires and components.</b></p> <p> The TV uses special tubes and tapes made from insulated materials. Moreover, some materials are kept from making contact with the PWB for the sake of safety. Internal leads are kept from hot parts or high voltage parts by means of clamps or other measures. As such, you must restore these parts to their original conditions in order to prevent electric shock or fire.</p> |
| <p>■ <b>Prevent electric shock.</b></p> <p> Exercise caution while working on the device as the TV contains high voltage parts and power supply. It is possible to sustain severe injury or death if you accidentally touch the wrong parts. You must disconnect the power supply while servicing, reassembling, or change parts. If you touch a live connection it is possible to sustain severe injury or death.</p>                                  | <p>■ <b>Perform safety check when done.</b></p> <p> Every part (such as removed screws, components, and wiring) must be restored to their prior conditions after servicing. Be sure to check everything that was repaired for damage or mistakes.</p>                                                                                                                                                                                                |
| <p>■ <b>Use recommended components.</b></p> <p> Use only the recommended components or components that are structurally identical to the originals. This is to ensure safety and reliability. Pay special attention to parts in the parts list and circuit diagrams marked with . If you use non-recommended components, then electric shock or fire may result.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

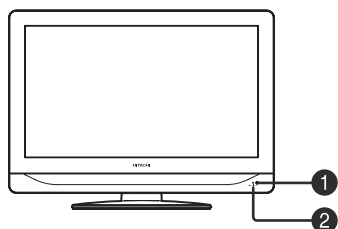
# Specification

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|                   |              |                                                                        |
|-------------------|--------------|------------------------------------------------------------------------|
| <b>Model Name</b> |              | <b>L32A02A, L32S02A, L32E200, L32R200, L32E100S, L32E101B, L32R100</b> |
| Panel             | Size         | Approx. 32 inches                                                      |
|                   | Resolution   | 1366 x 768                                                             |
| Power Requirement |              | AC 110-240V, 50/60Hz                                                   |
| Power Consumption |              | 180W                                                                   |
| Audio Output      |              | 10W + 10W                                                              |
| Terminals         | AV1          | VIDEO IN, L/R AUDIO IN                                                 |
|                   | AV2          | COMPONENT IN, S-VIDEO IN, L/R AUDIO IN                                 |
|                   | AV3          | COMPONENT IN, L/R AUDIO IN                                             |
|                   | AV4          | VIDEO IN, L/R AUDIO IN                                                 |
|                   | HDMI1        | HDMI IN                                                                |
|                   | HDMI2        | HDMI IN                                                                |
|                   | RGB          | RGB IN, L/R AUDIO IN                                                   |
|                   | OUTPUT       | VIDEO OUT, L/R AUDIO OUT                                               |
|                   | HEADPHONE    | L/R AUDIO OUT                                                          |
| Input Signals     | RF           | PAL B/G, D/K, I, H<br>SECAM B/G, D/K, K1<br>NTSC M                     |
|                   | Video        | PAL, SECAM, NTSC3.58, PAL N, PAL M                                     |
|                   | Component    | 480i/p, 576i/p, 720p(50/60), 1080i(50/60)                              |
|                   | HDMI         | 480i/p, 576i/p, 720p(50/60), 1080i(50/60), 1080p(24/50/60)             |
|                   | Analogue RGB | VGA - WXGA                                                             |

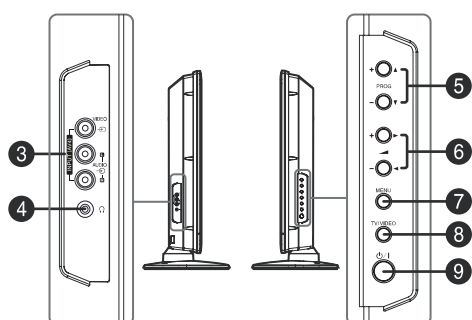
# Function Overview

## Front Panel



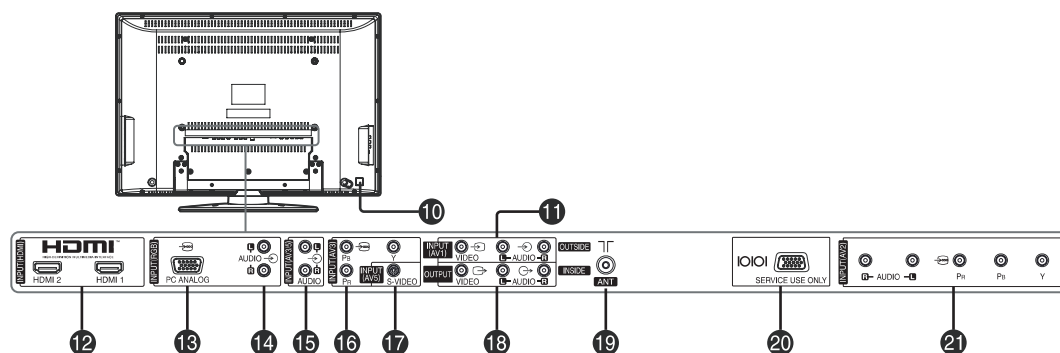
- ❶ Remote control sensor  
Receives signal from the remote control.
- ❷ Power indicator  
Lights up in red when the TV is in standby mode.  
Lights up in green when the TV is turned on.

## Side Panel



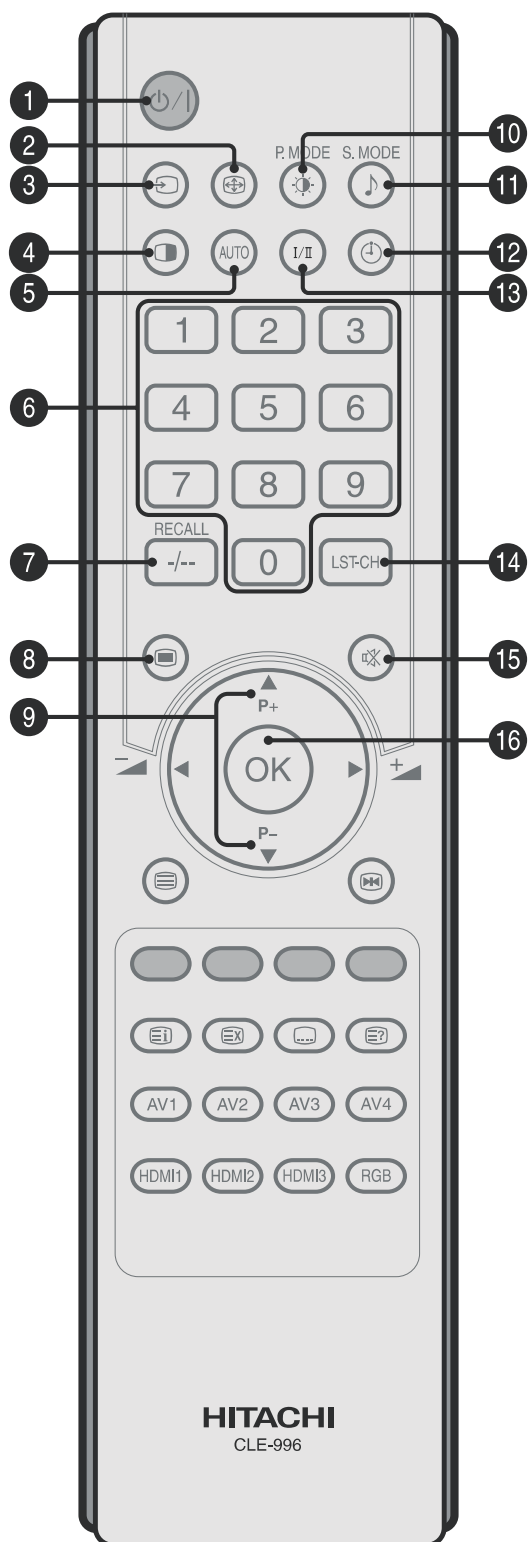
- ❸ Av4 Input terminals  
Connect to equipment with audio/video output.
- ❹ Head Phone jack  
Connect to head phones.
- ❺ Programme Up/Down (P+ /P- )  
Press to select previous/next programme.
- ❻ Volume Up/Down (▲ / ▼)  
Press to adjust the volume.
- ❼ Menu (■)  
Press to enter or exit from the TV menu.
- ❽ Input Select (↔)  
Press to select TV, AV1, AV2, AV3, AV4, AV5, HDMI1, HDMI2 or RGB mode.
- ❾ Sub Power  
Press to turn the TV on or standby.

## Rear Panel



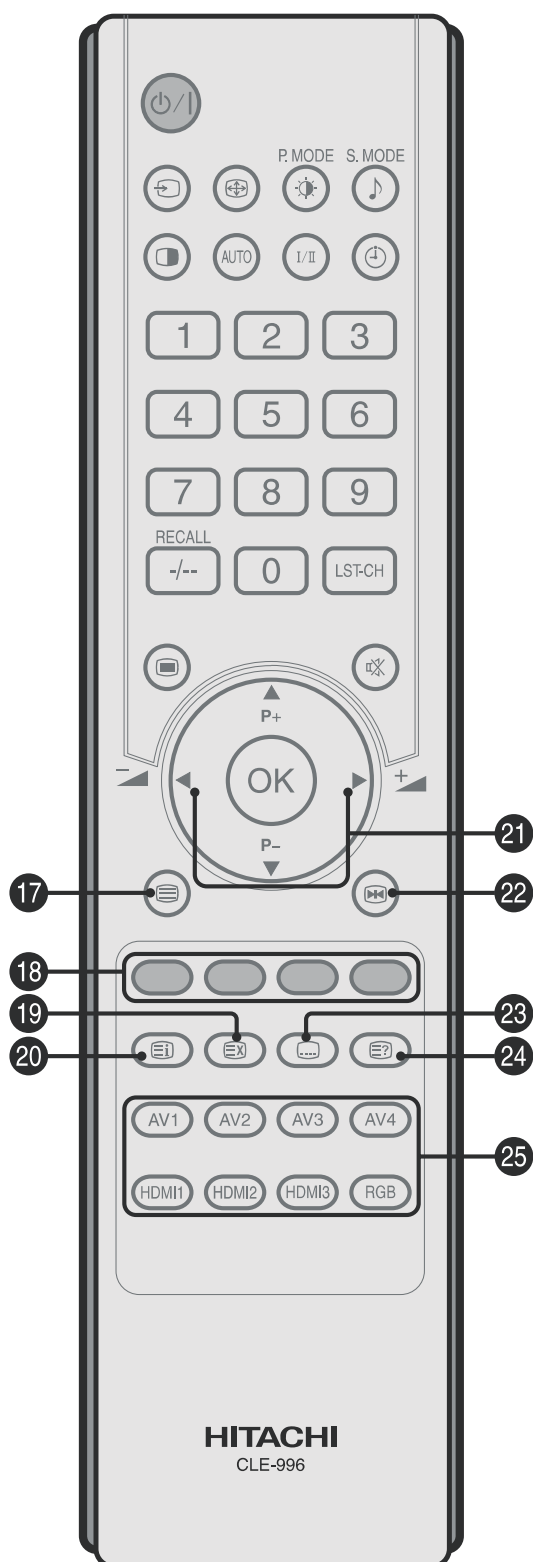
- ❿ Main Power button  
Press to turn the TV main power on or off.
- ⓫ Av1 Input terminals  
Connect to equipment with audio/video output.
- ⓬ HDMI1/HDMI2 Input terminal  
Connect to equipment with HDMI output.
- ⓭ RGB Input terminal  
Connect to PC.
- ⓮ RGB/HDMI Analogue Audio Input terminals  
Connect to equipment using HDMI-DVI connection or PC with audio output.
- ⓯ AV3/AV5 Audio Input terminals  
Connect to equipment with audio output.
- ⓰ Av3 Input terminals  
Connect to equipment with component output.
- ⓱ Av5 Input terminals  
Connect to equipment with s-video output.
- ⓲ Output terminals  
Connect to equipment with audio/video input.
- ⓳ Antenna Input terminal  
Connect to equipment with antenna output or wall Antenna socket.
- ⓴ Rs232 Input terminal  
For service use only.
- ⓴ Av2 Input terminals  
Connect to equipment with component output.

# Function Overview



- 1 Power On/Standby (⏻/⏻)  
Press to turn the TV on or standby.
- 2 Picture Size (🖼️)  
Press to the desired picture format.
- 3 Input Select (📺)  
Press to select TV, AV1, AV2, AV3, AV4, AV5, HDMI1, HDMI2 or RGB mode.
- 4 Not Available
- 5 Auto Adjust (AUTO)  
Press to adjust the picture automatically in RGBmode.
- 6 Number buttons  
TV mode: Press to select the TV channel directly.  
Teletext mode: Press to select the Teletext page.
- 7 Recall (RECALL)  
Press to show input signal status.  
Digit (-/--)  
Press to select one, two or three digit channel number input options.
- 8 Menu (📁)  
Press to enter or exit from the TV menu.
- 9 Programme Up/Down (P+/P-)  
Press to select previous/next channel.  
Up/Down Cursor (▲/▼)  
Press to select or adjust the desired item on the TV menu.
- 10 Picture Mode (🖼️)  
Press to select the desired picture mode.
- 11 Sound Mode (🎵)  
Press to select the desired sound mode.  
Sleep Timer (🕒)  
Press to set the time to switch the TV to standby mode.
- 13 Ch I/II (I/II)  
Press to select audio language or sound output when receiving a bilingual or stereo programme respectively.
- 14 Last Channel (LST-CH)  
Press to return to previously viewed channel.
- 15 Mute (🔇)  
Press to mute or restore the volume.
- 16 OK (OK)  
Press to confirm and execute the selection.

# Function Overview



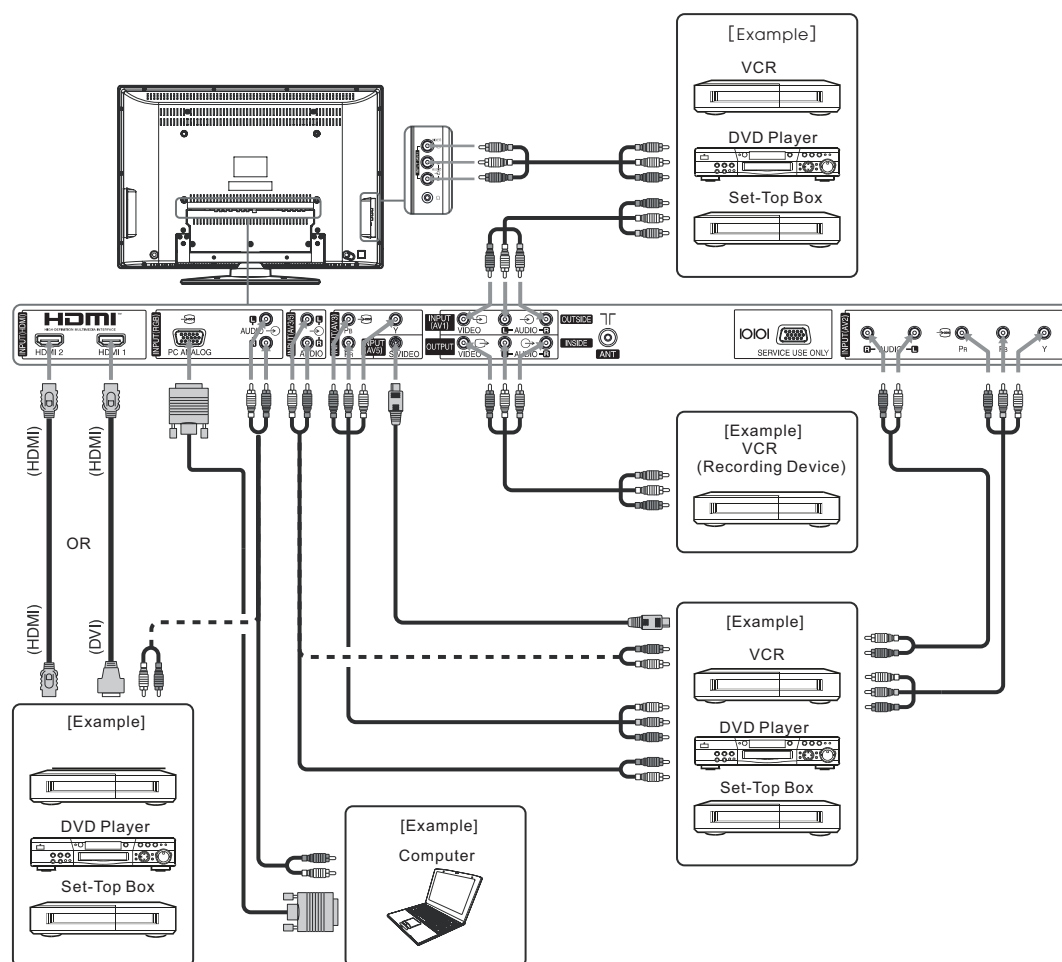
- 17** TV/Text ( )  
Press to enter or exit from Teletext mode.
- 18** Colour buttons  
Press to select a link page displayed at the bottom of the Teletext page.
- 19** Cancel ( )  
Press to return to the TV channel temporarily while searching for a Teletext page.
- 20** Index ( )  
Press to display index page.
- 21** Volume Up/Down (▲/▼)  
Press to adjust the volume.  
Left/Right Cursor (◀/▶)  
Press to select or adjust the desired item on the TV menu.
- 22** Freeze/Hold ( )  
TV mode: Press to freeze or unfreeze the picture.  
Teletext mode: Press to hold the current Teletext page.
- 23** Subtitle ( )  
Press to display the Teletext subtitle directly.
- 24** Reveal ( )  
Press to reveal the hidden information.
- 25** Direct Input Select buttons  
Press to select the input source directly.

## NOTE

- Av5 mode cannot be selected directly.
- HDMI3 input is not available.

# Connections

You can connect VCR, DVD player, set-top box, computer, game console or other video equipment to the TV. To view external source images, press  to select the input source or Direct Input Select buttons to select the input source directly.



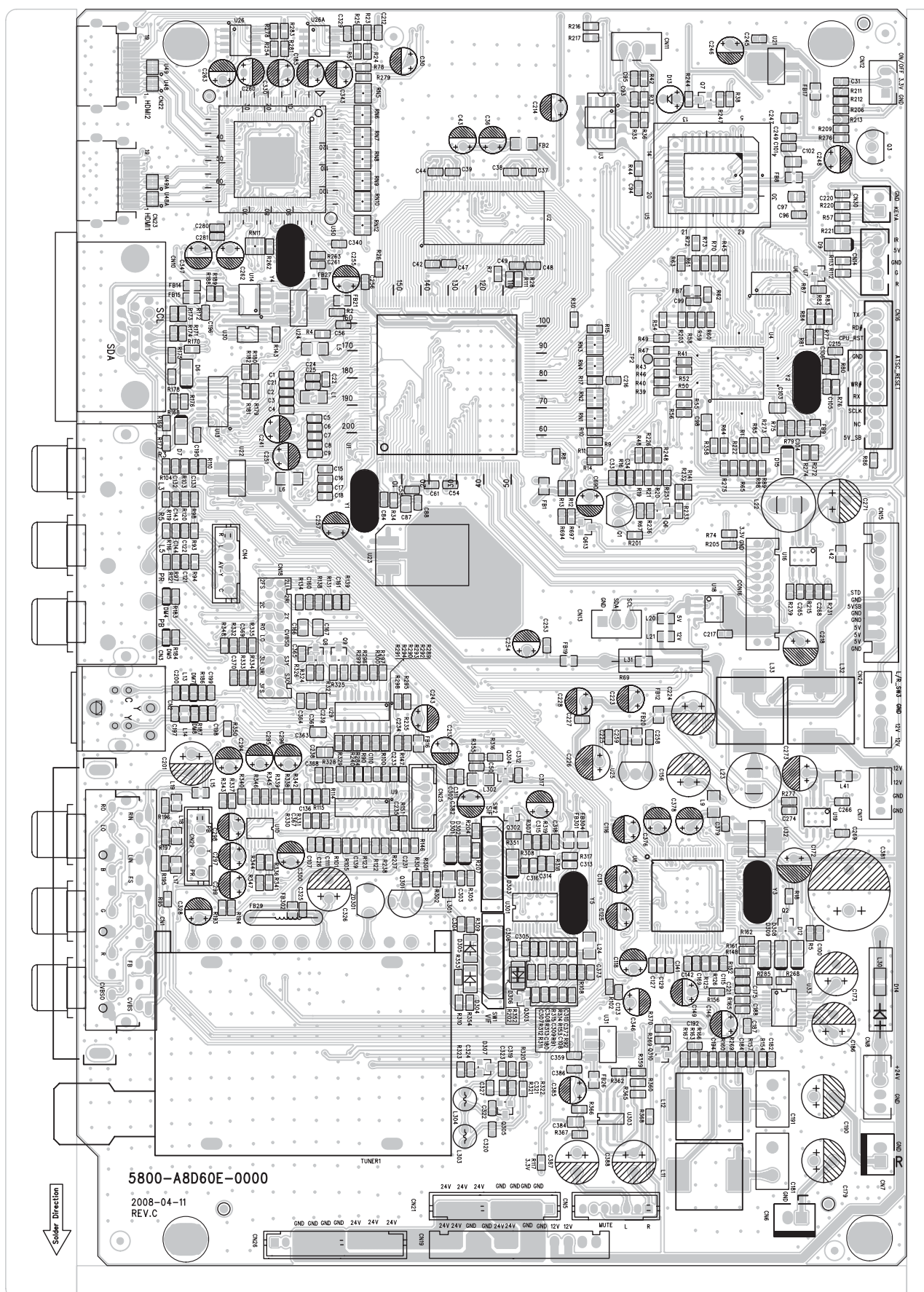
## NOTE

- If the external equipment has DVI output, you can connect it to the HDMI terminal using a HDMI-DVI cable. In case of using the HDMI-DVI cable, connect analogue audio signal to RGB/HDMI Analogue Audio Input terminals.
- For Australia only - install an external aerial conforming to AS 1417.1 for safety purpose.
- Please refer to the user manual of the external equipment for more information on the connection to the TV.
- Please disconnect all the power supplies to the equipment and TV before connection.



## Main PCB Top/Bottom Layer

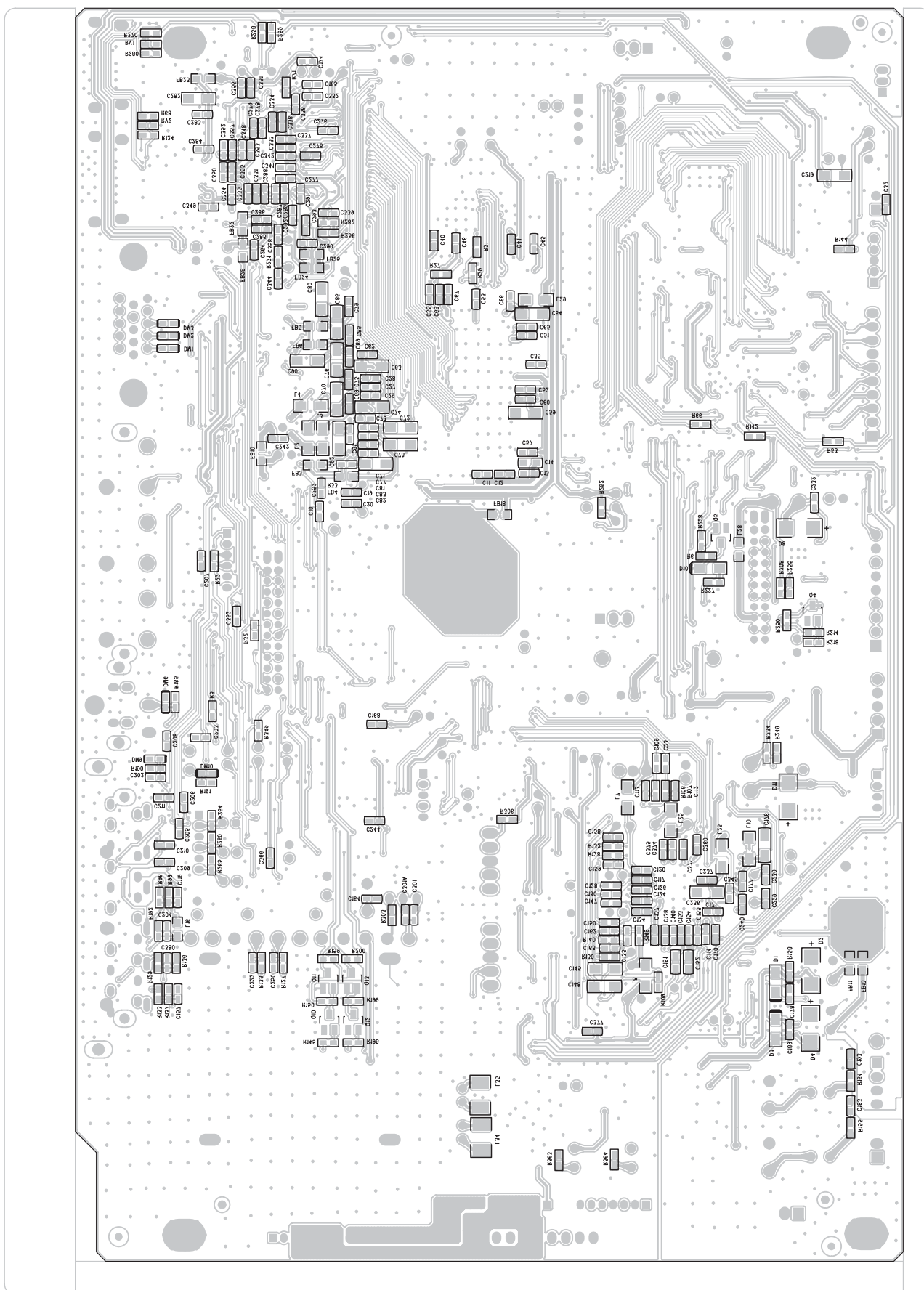
## Main PCB top layer



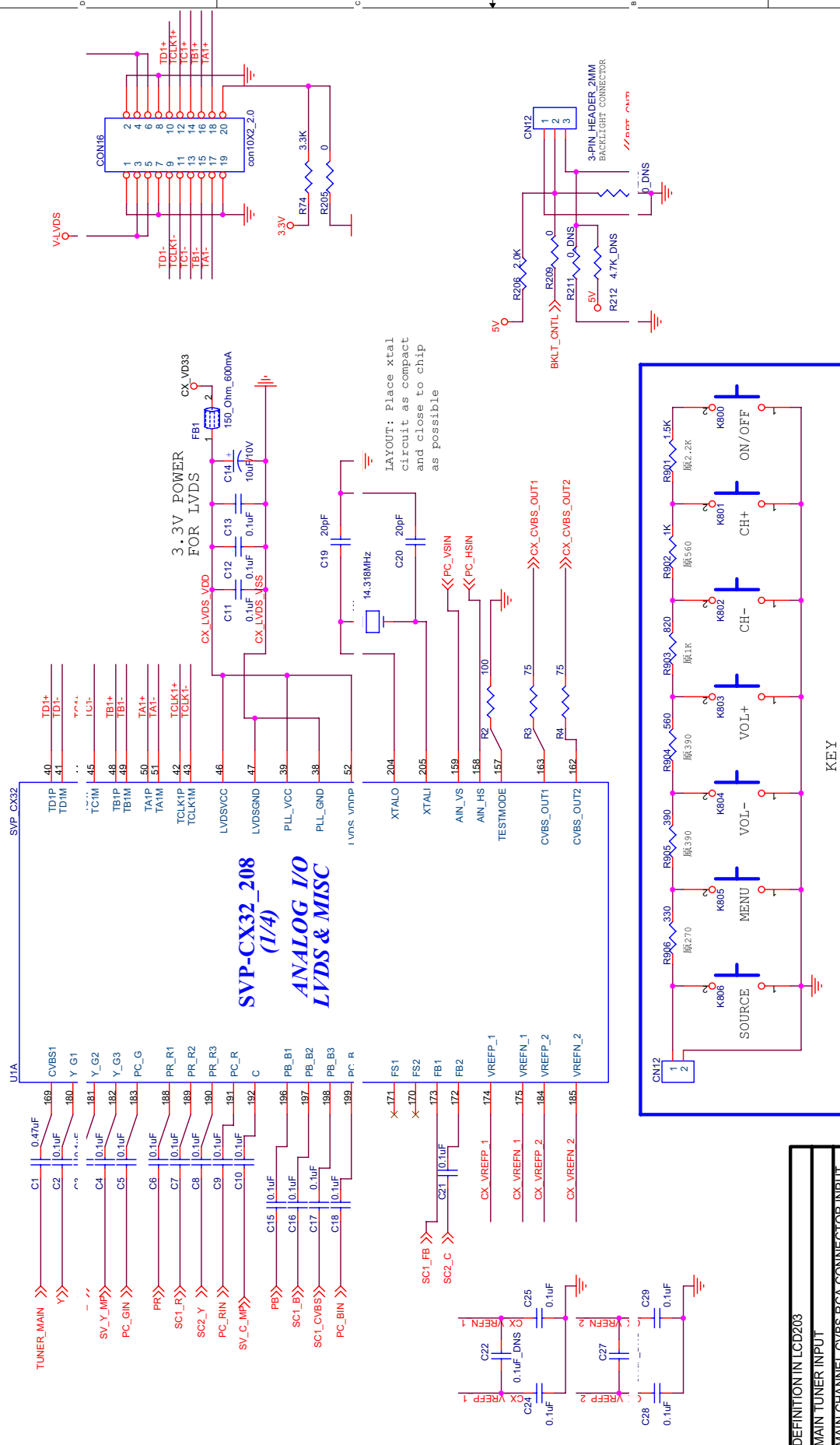


## Main PCB Top/Bottom Layer

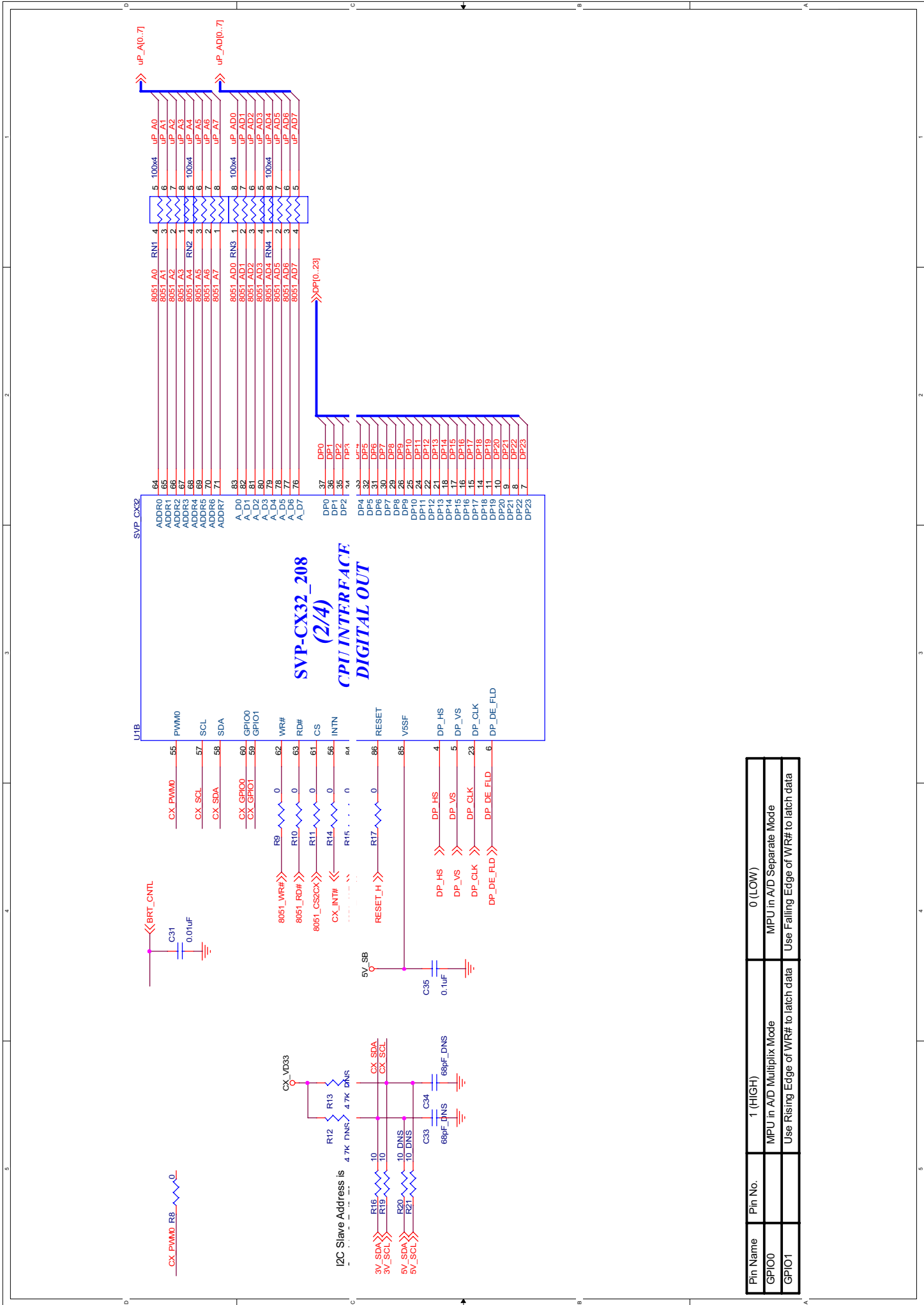
## Main PCB bottom layer



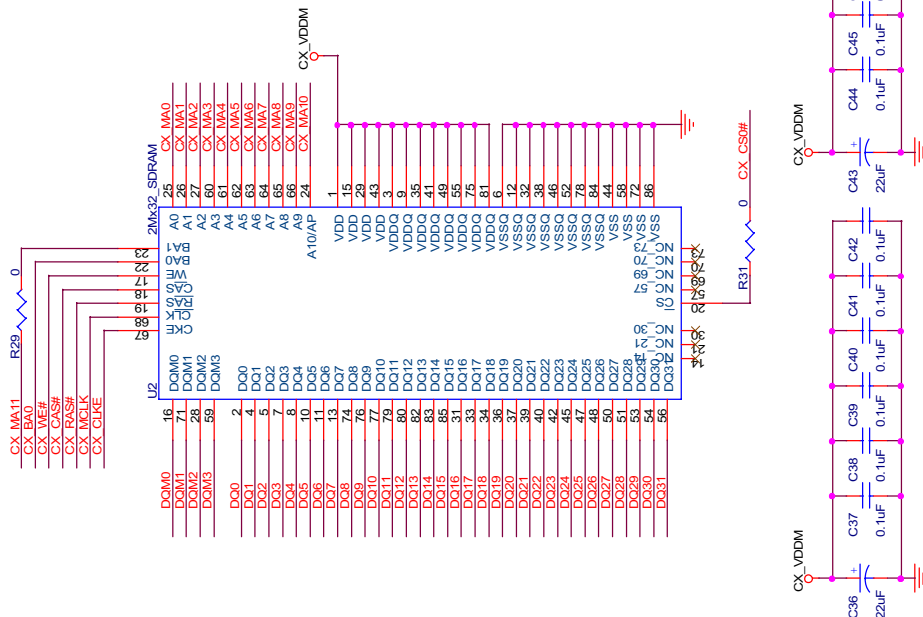
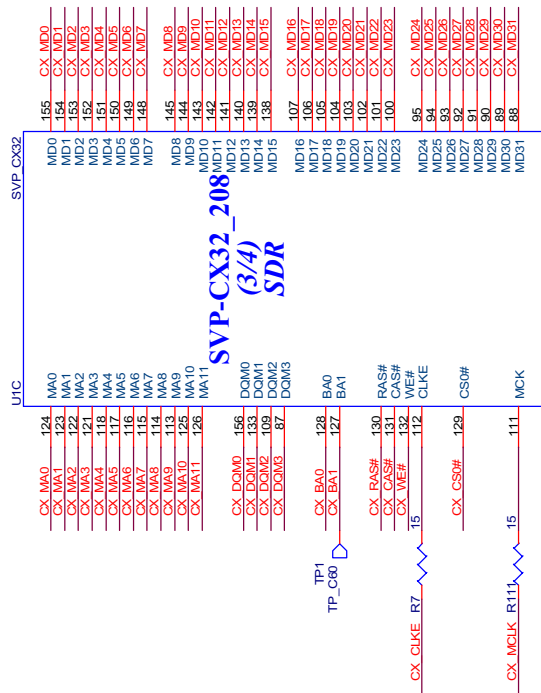
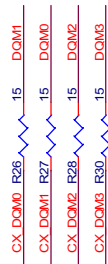




| Pin Name | DEFINITION IN LCD203                  |
|----------|---------------------------------------|
| CVBS1    | MAIN TUNER INPUT                      |
| Y_G3     | MAIN CHANNEL CVBS RCA CONNECTOR INPUT |
| PB_B3    | SCART11 CVBS INPUT                    |
| PR_R3    | SCART12 CVBS INPUT                    |
| FB1      | SCART11 FB INPUT                      |
| FB2      | SCART12 or 3 Chroma INPUT             |
| FS1      | SCART11 FS INPUT                      |
| FS2      | SCART12 FS INPUT                      |



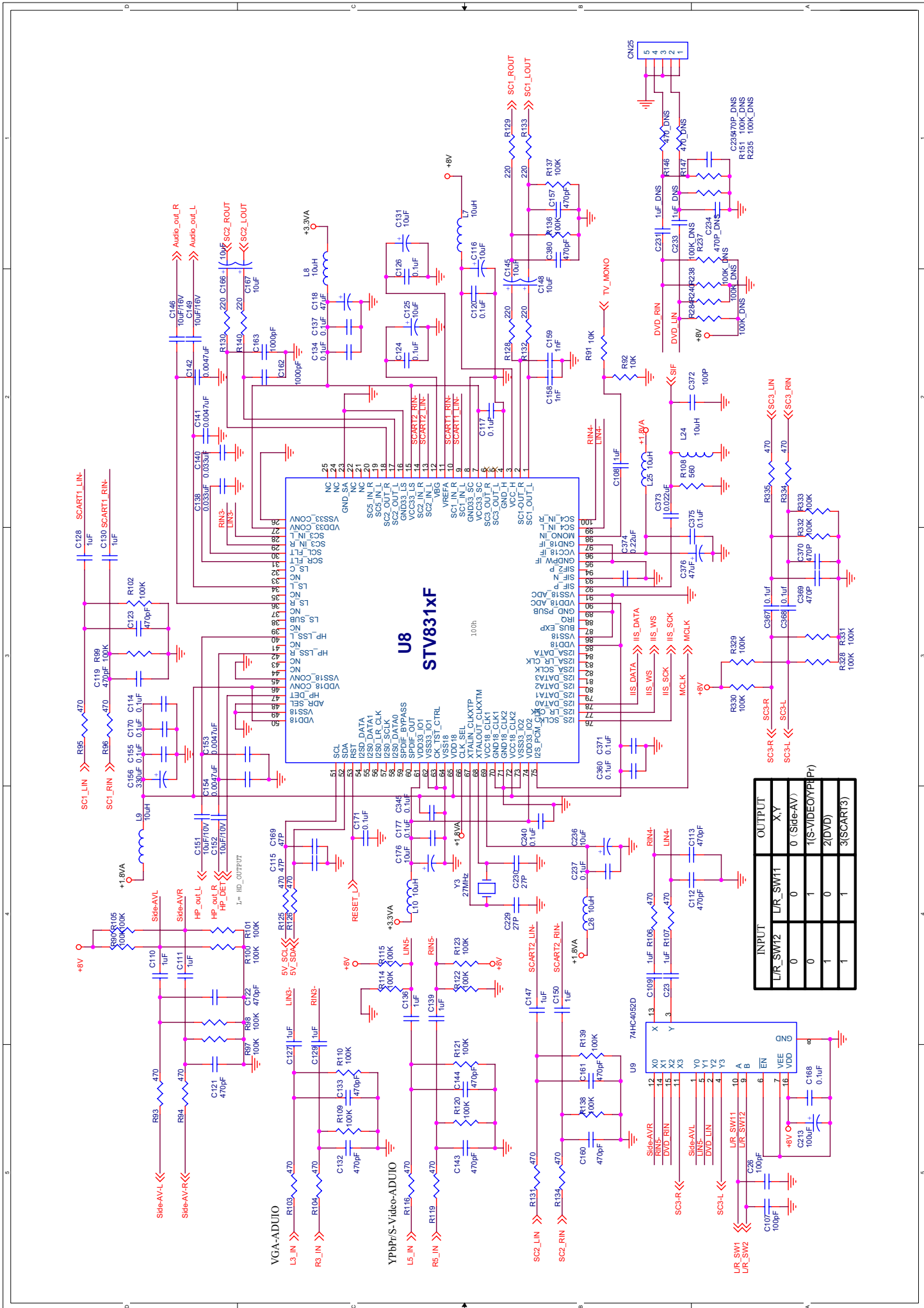
| Pin Name | Pin No. | 1 (HIGH)                             | 0 (LOW)                               |
|----------|---------|--------------------------------------|---------------------------------------|
| GPIO0    |         | MPU in A/D Multiplex Mode            | MPU in A/D Separate Mode              |
| GPIO1    |         | Use Rising Edge of WR# to latch data | Use Falling Edge of WR# to latch data |

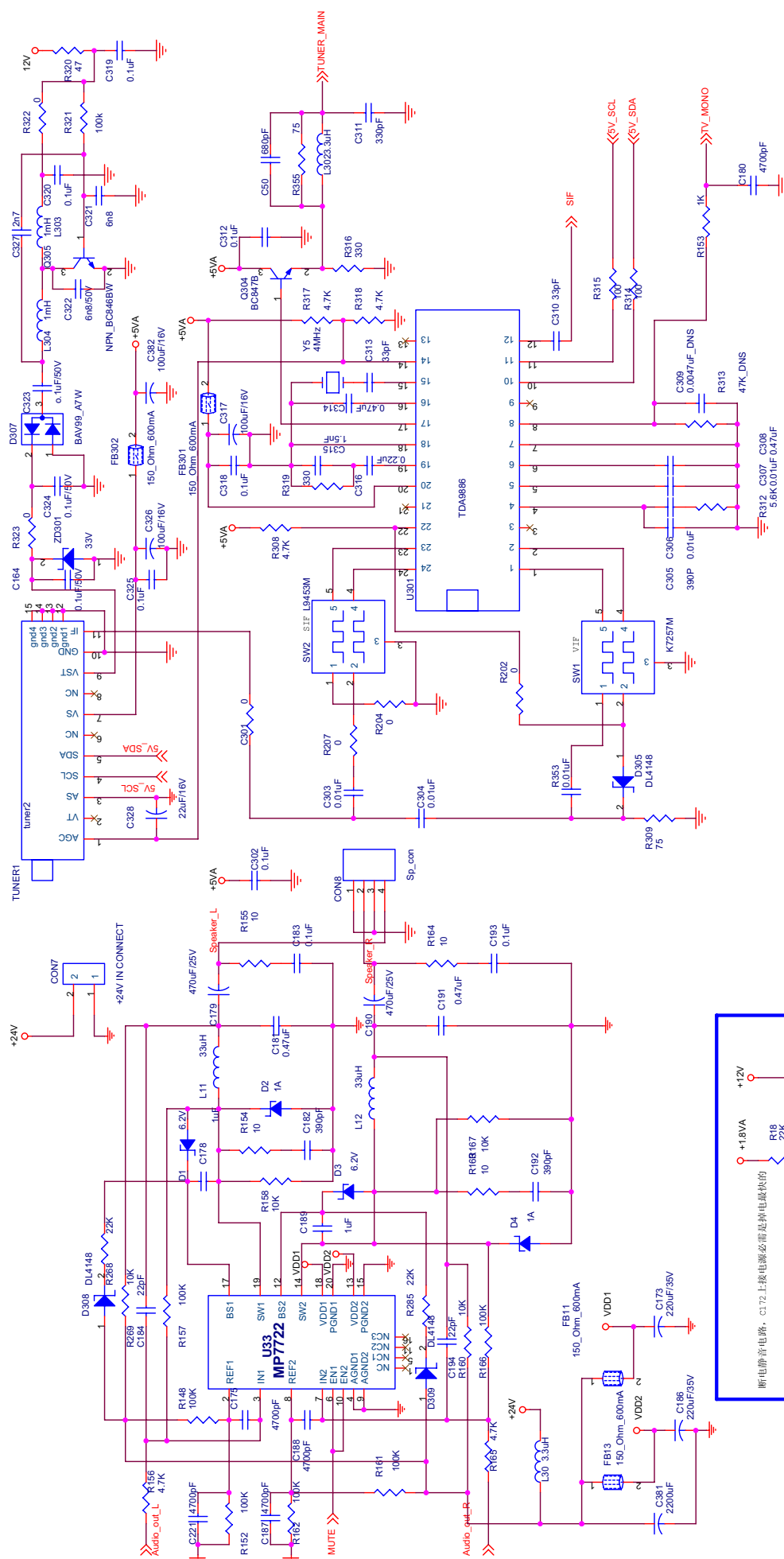




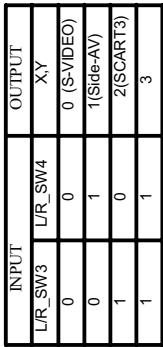




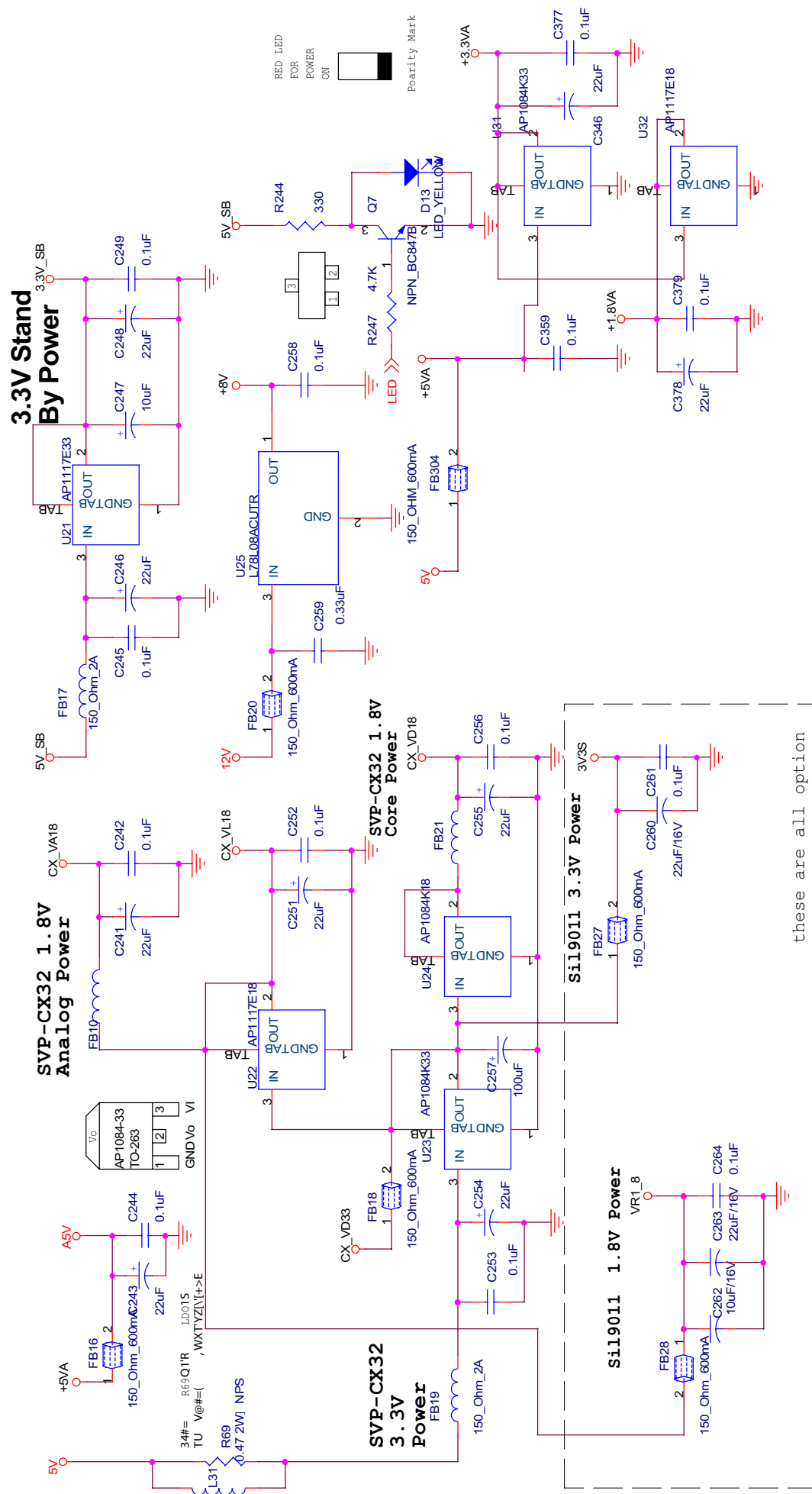




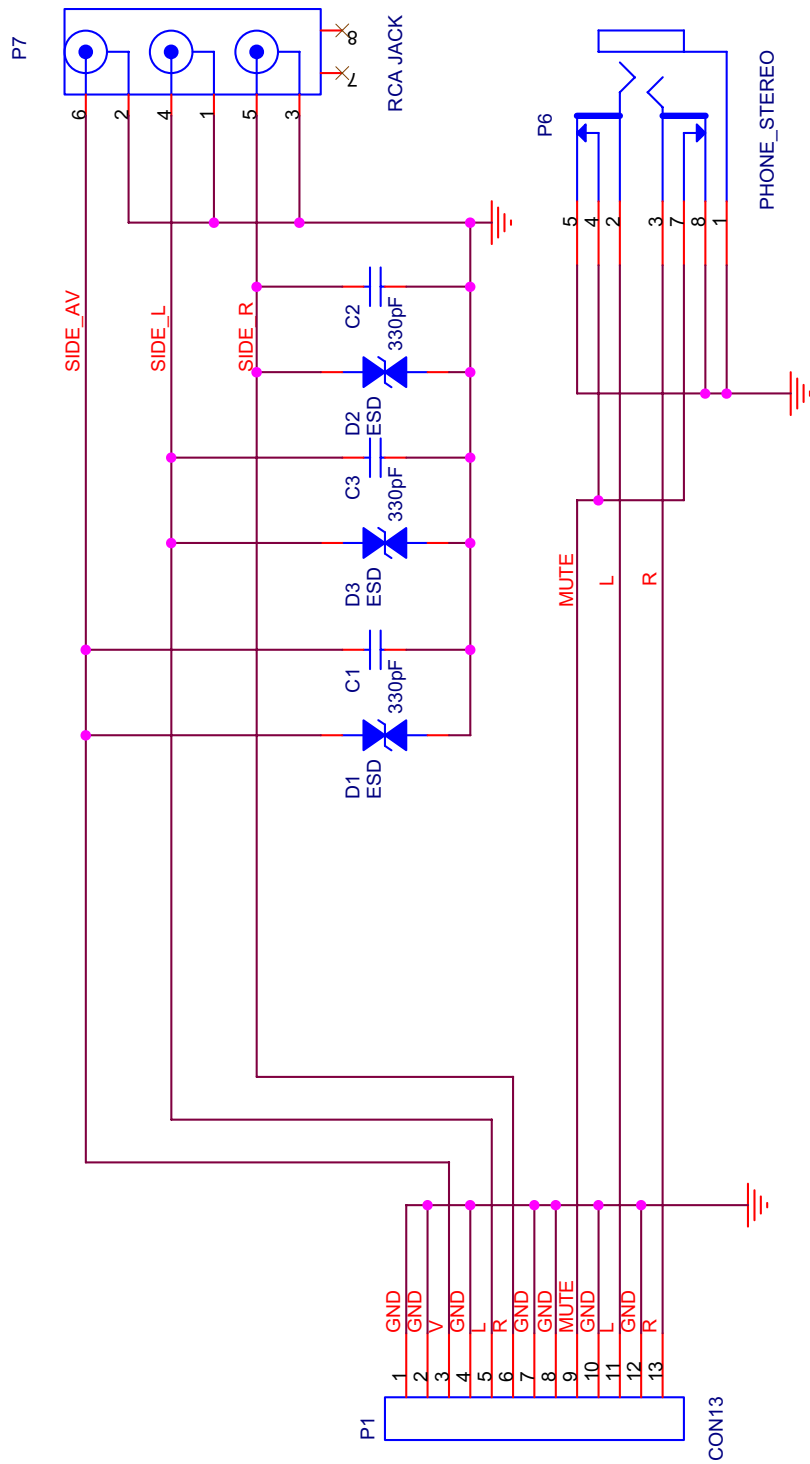
断电静音电路，C172上接电源必需是种电最快的

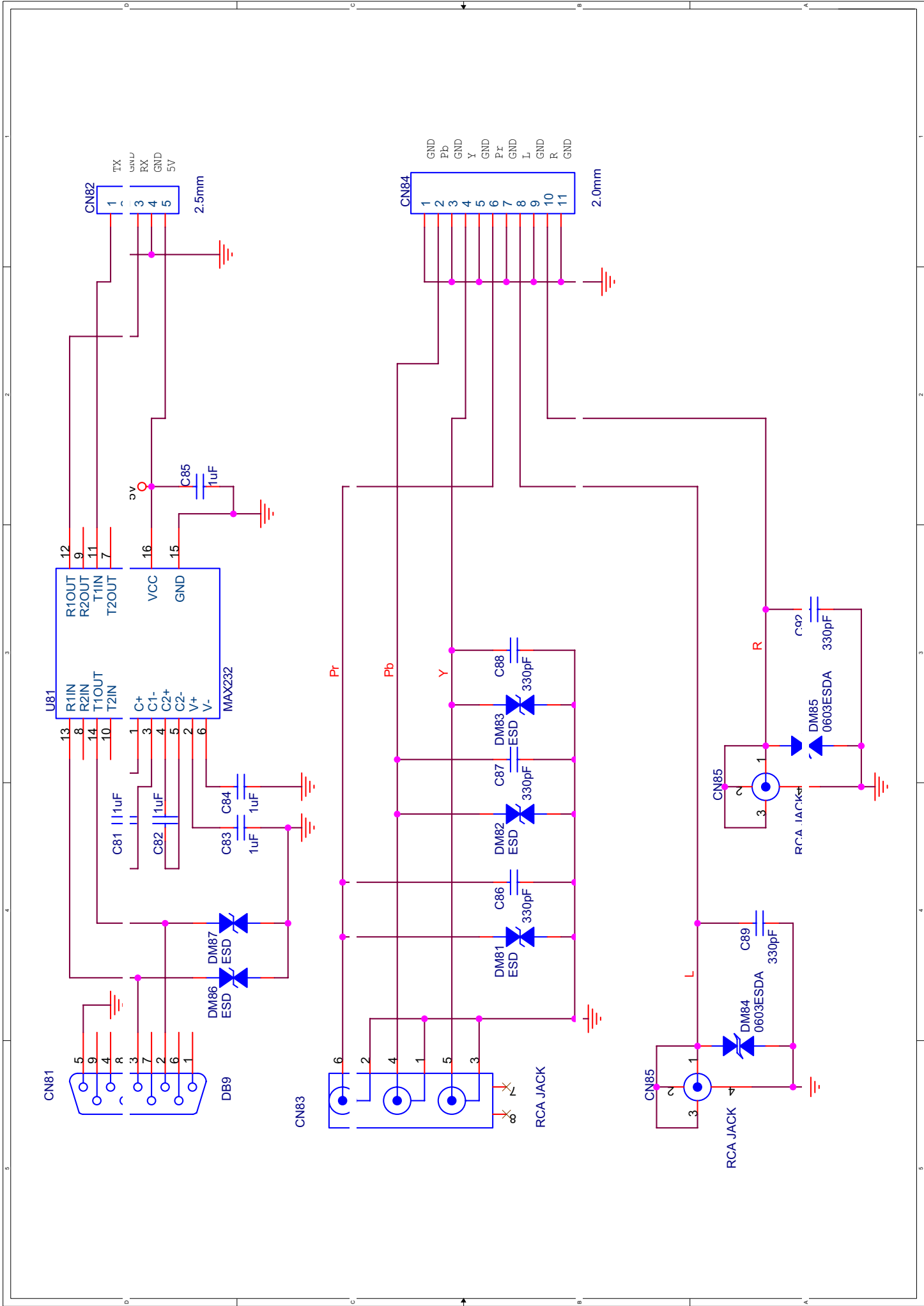






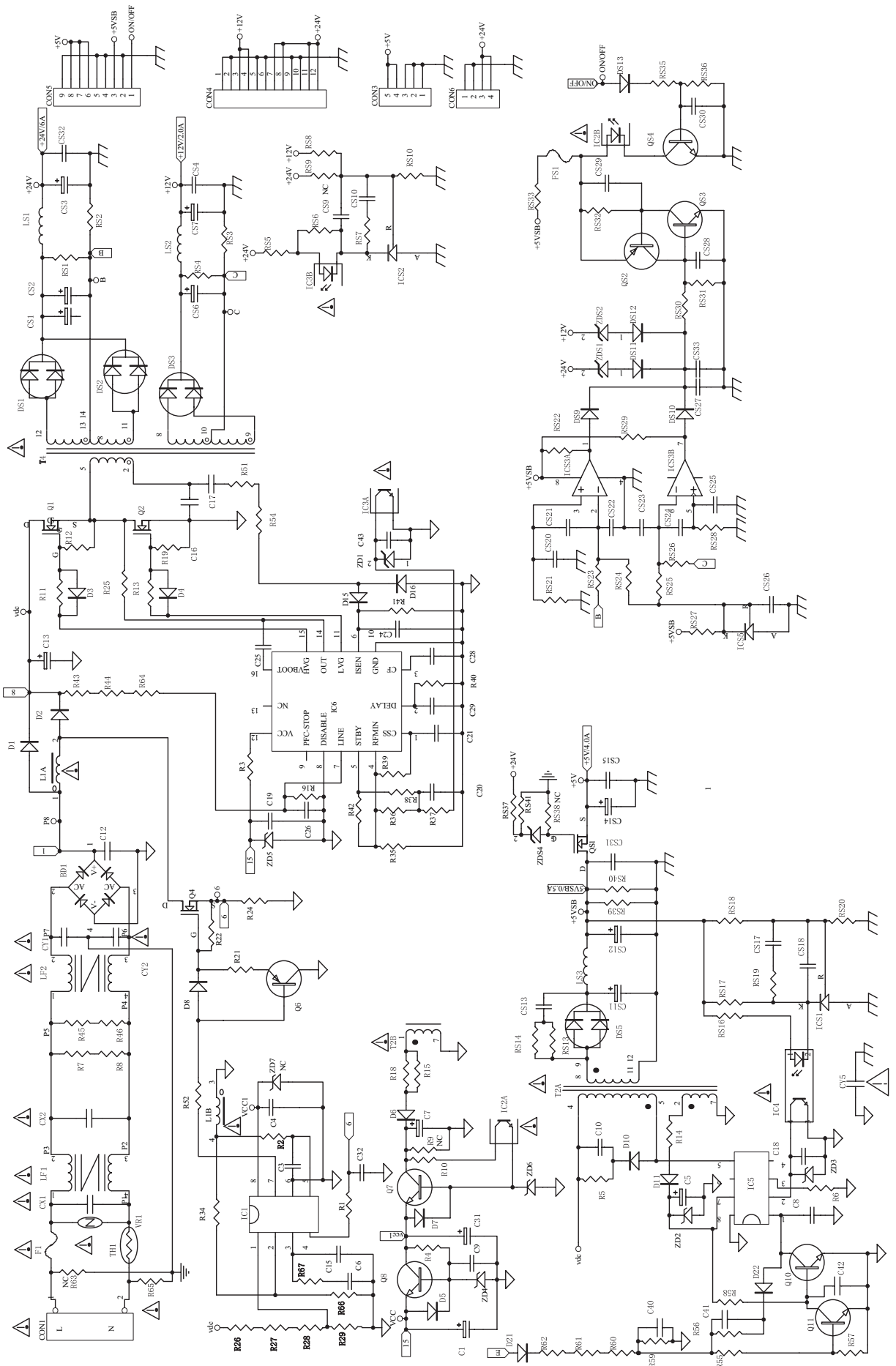






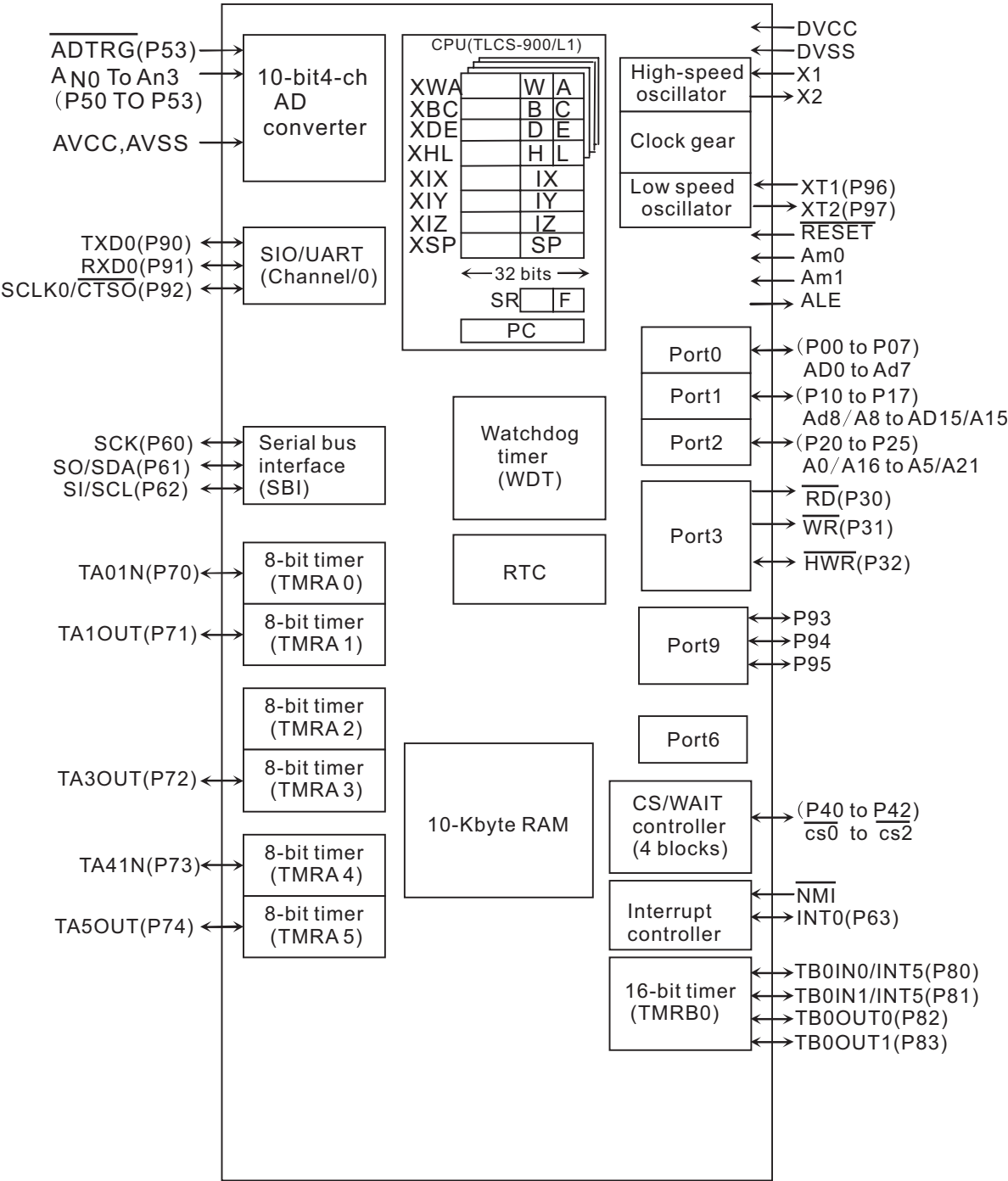


# POWER SUPPLY UNIT



# IC Block Diagram

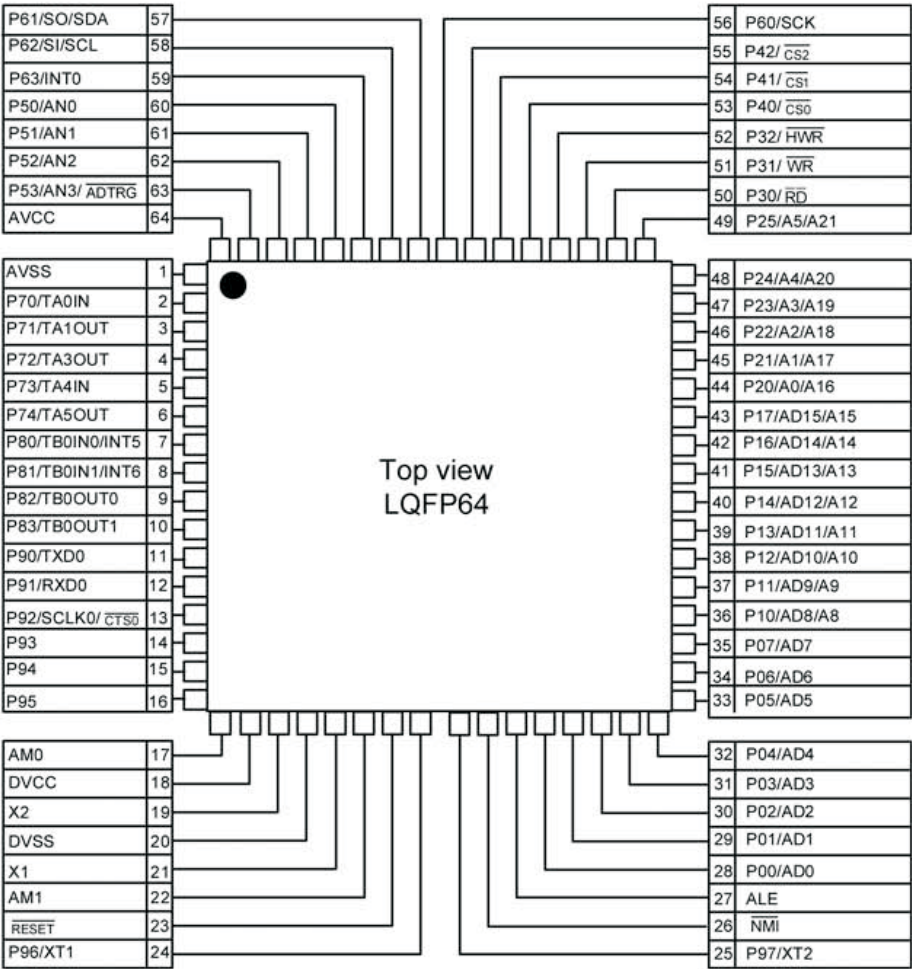
U4



T5BS4-9999 Block Diagram

# IC Block Diagram

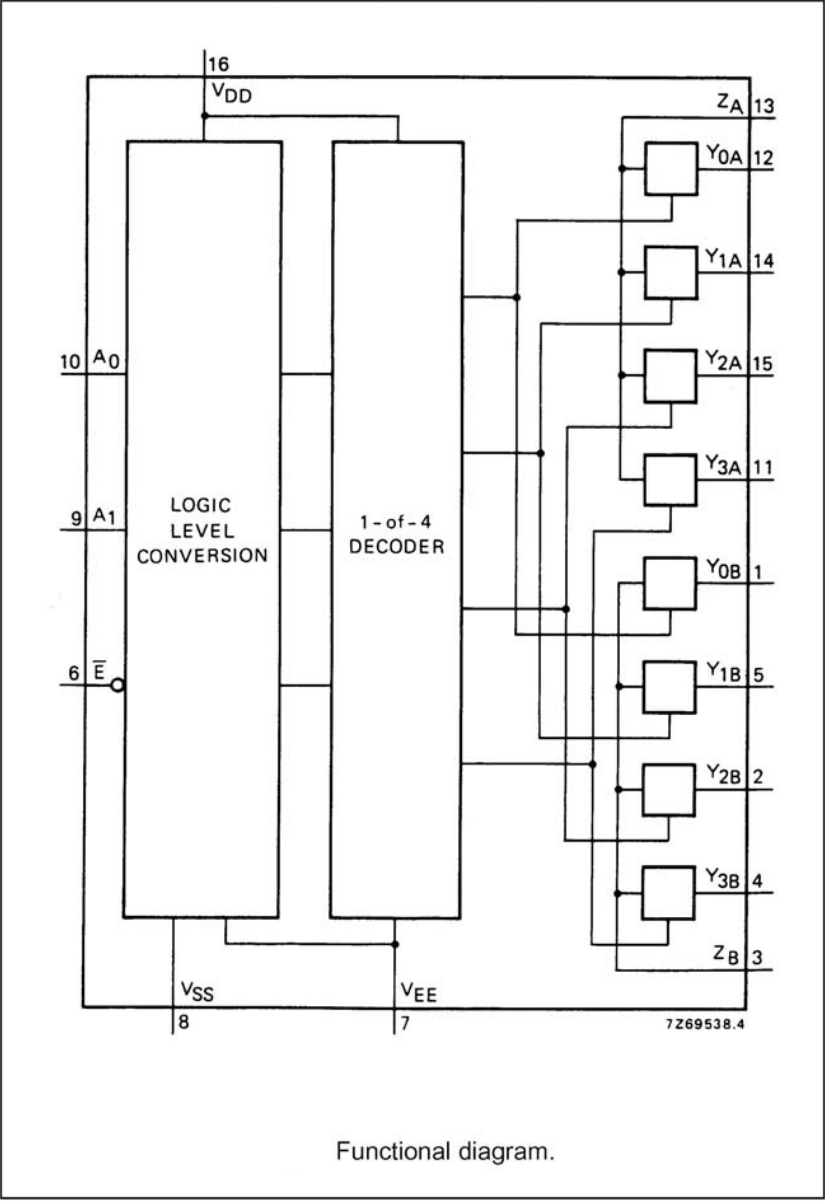
the pin assignment of the T5BS4-9999.



Pin Assignment Diagram (64-pin LQFP)

# IC Block Diagram

U9,U29( 4-CHANNEL ANALOGUE MULTIPLEXER)HEF4052BT

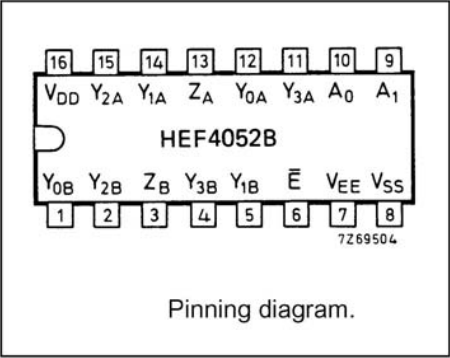


### PINNING

- Y<sub>0A</sub> to Y<sub>3A</sub> independent inputs/outputs
- Y<sub>0B</sub> to Y<sub>3B</sub> independent inputs/outputs
- A<sub>0</sub>, A<sub>1</sub> address inputs
- $\bar{E}$  enable input (active LOW)
- Z<sub>A</sub>, Z<sub>B</sub> common inputs/outputs

### FAMILY DATA, I<sub>DD</sub> LIMITS category MSI

See Family Specifications



HEF4052BP(N): 16-lead DIL; plastic (SOT38-1)

HEF4052BD(F): 16-lead DIL; ceramic (cerdip) (SOT74)

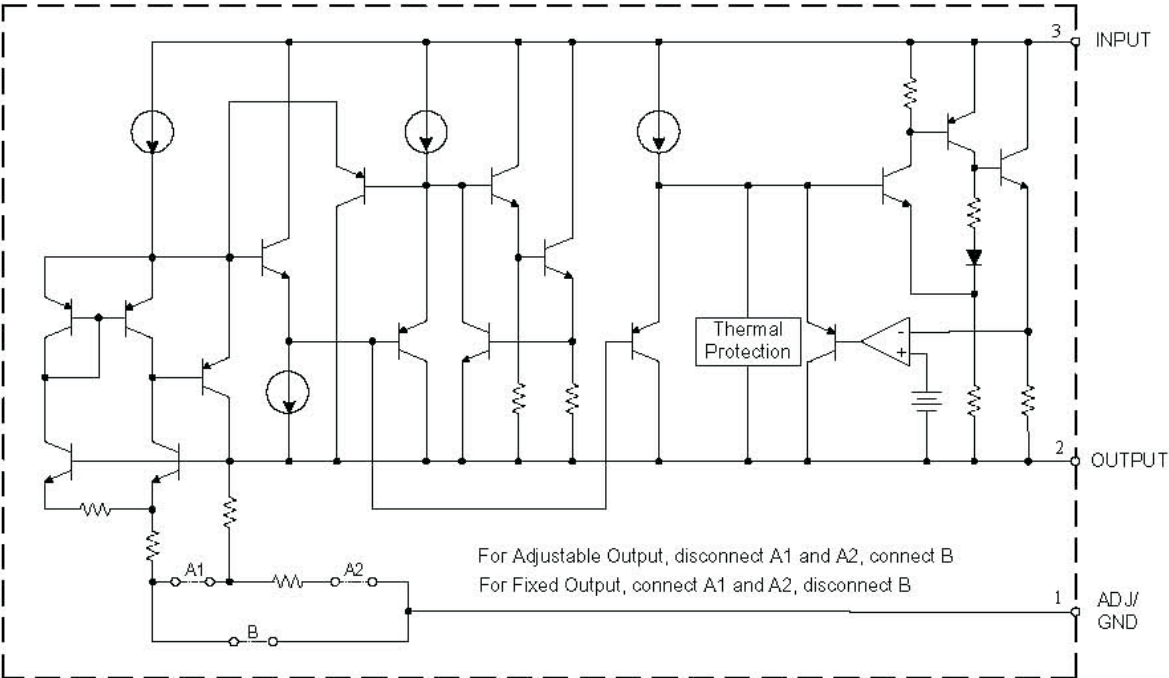
HEF4052BT(D): 16-lead SO; plastic (SOT109-1)

( ): Package Designator North America

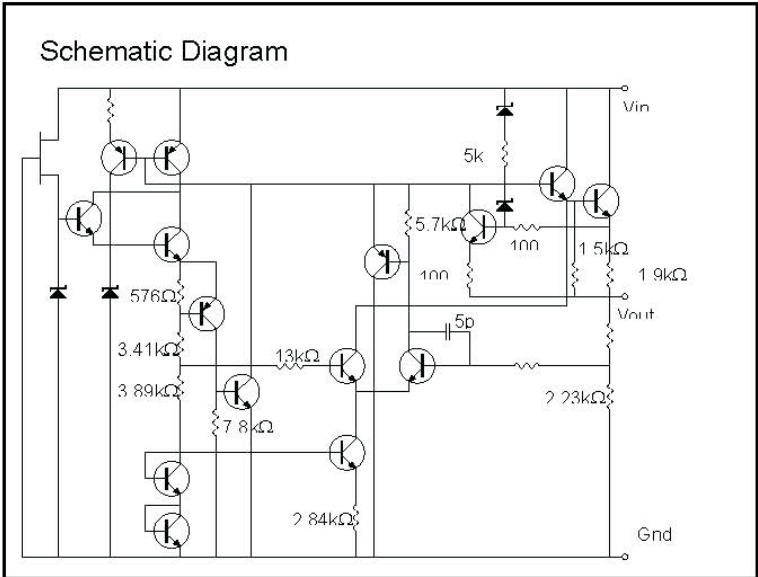
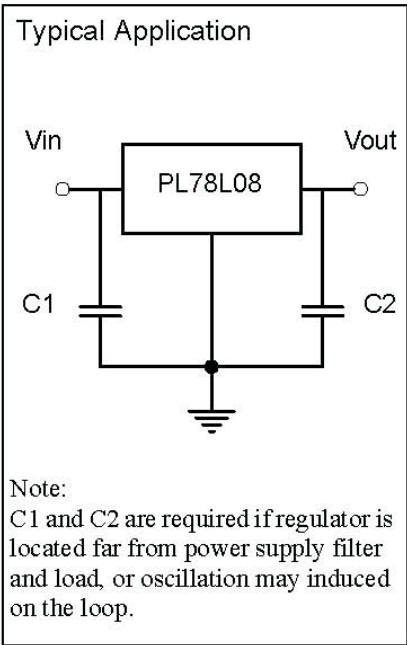
# IC Block Diagram

U23(5A LOW DROPOUT LINEAR REGULATOR)1.8V TO-263-3

## Functional Block Diagram



U28



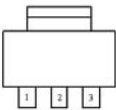
# IC Block Diagram

U22,U24,U31,U32(1A LOW DROPOUT VOLTAGE REGULATOR)AMS1117-1.8

### PIN CONNECTIONS

| FIXED VERSION | ADJUSTABLE VERSION |
|---------------|--------------------|
| 1- Ground     | 1- Adjust          |
| 2- $V_{OUT}$  | 2- $V_{OUT}$       |
| 3- $V_{IN}$   | 3- $V_{IN}$        |

SOT-223 Top View

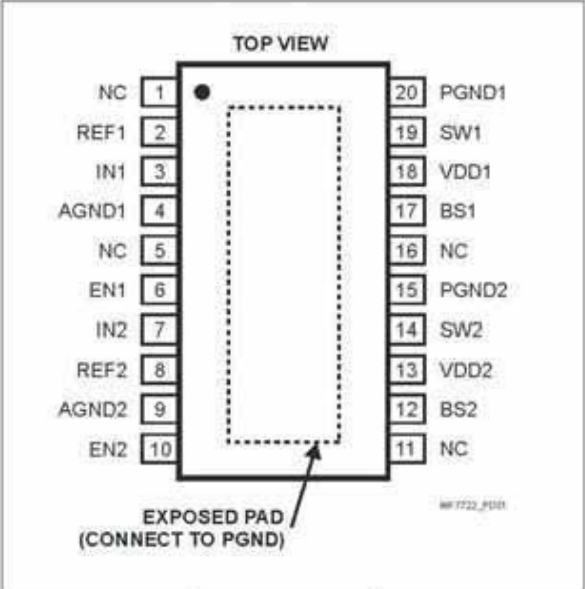


TO-252 FRONT VIEW



U33(STEREO SINGLE ENDED AUDIO AMPLIFIER)MP7722DF

### PACKAGE REFERENCE



| Part Number* | Package  | Temperature    |
|--------------|----------|----------------|
| MP7722DF     | TSSOP20F | -40°C to +85°C |

\* For Tape & Reel, add suffix -Z (eg. MP7722DS-Z)  
For Lead Free, add suffix -LF (eg. MP7722DS-LF-Z)

### ABSOLUTE MAXIMUM RATINGS <sup>(1)</sup>

|                            |                                    |
|----------------------------|------------------------------------|
| Supply Voltage $V_{DD}$    | 26V                                |
| BS Voltage                 | $V_{SW} - 0.3V$ to $V_{SW} + 6.5V$ |
| Enable Voltage $V_{EN}$    | -0.3V to +6V                       |
| $V_{SW}, V_{PIN}, V_{NIN}$ | -1V to $V_{DD} + 1V$               |
| AGND to PGND               | -0.3V to +0.3V                     |
| Junction Temperature       | 150°C                              |
| Lead Temperature           | 260°C                              |
| Storage Temperature        | -65°C to +150°C                    |

### Recommended Operating Conditions <sup>(2)</sup>

|                             |                |
|-----------------------------|----------------|
| Supply Voltage $V_{DD}$     | 9.5V to 24V    |
| Operating Temperature $T_A$ | -40°C to +85°C |

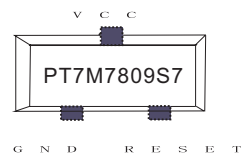
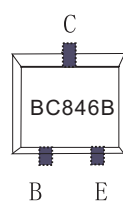
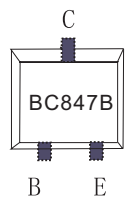
| Thermal Resistance <sup>(3)</sup> | $\theta_{JA}$ | $\theta_{JC}$ |
|-----------------------------------|---------------|---------------|
| TSSOP20F                          | 40            | 6             |

#### Notes:

- Exceeding these ratings may damage the device.
- The device is not guaranteed to function outside of its operating conditions.
- Measured on approximately 1" square of 1 oz copper.

# Transistor Mark

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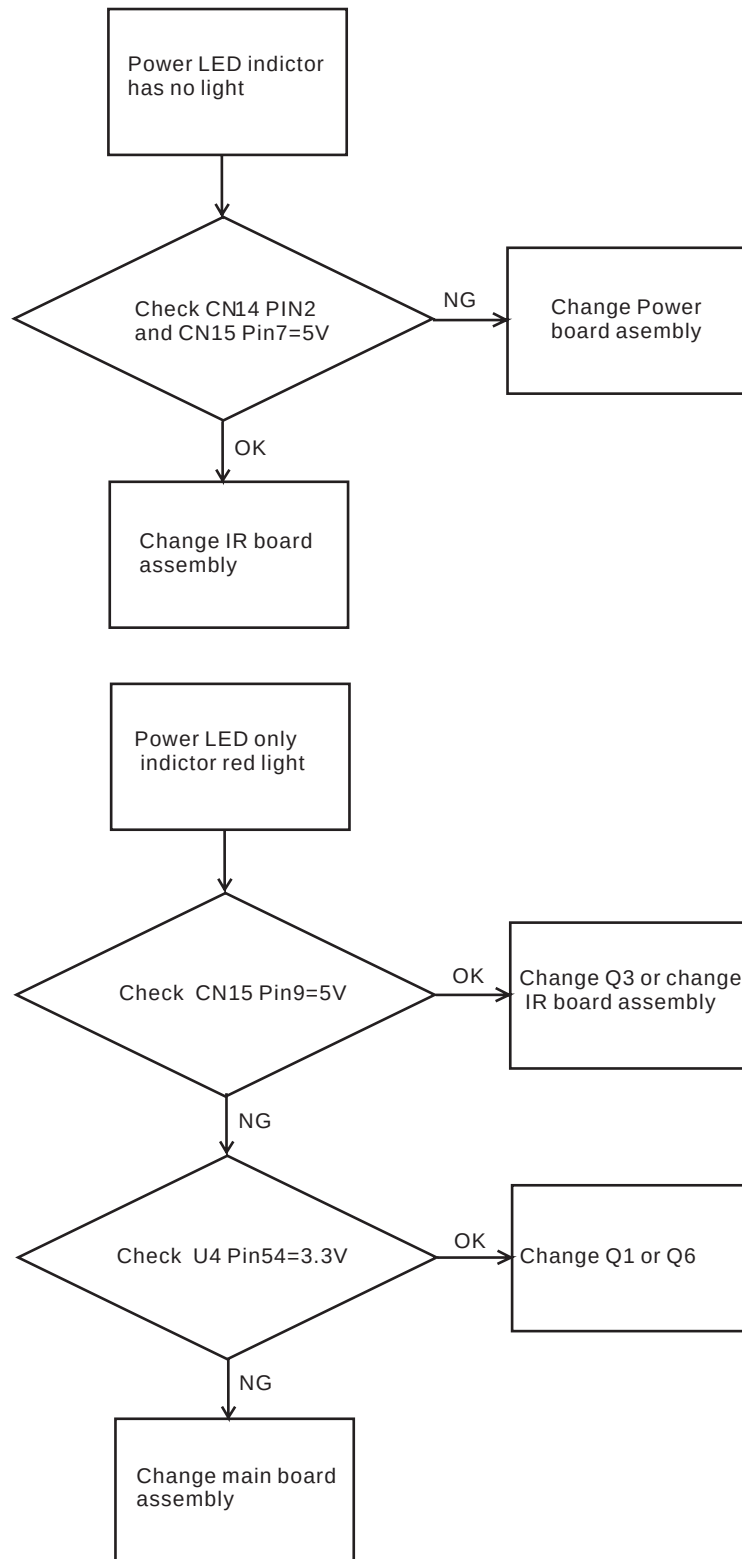


# Troubleshooting

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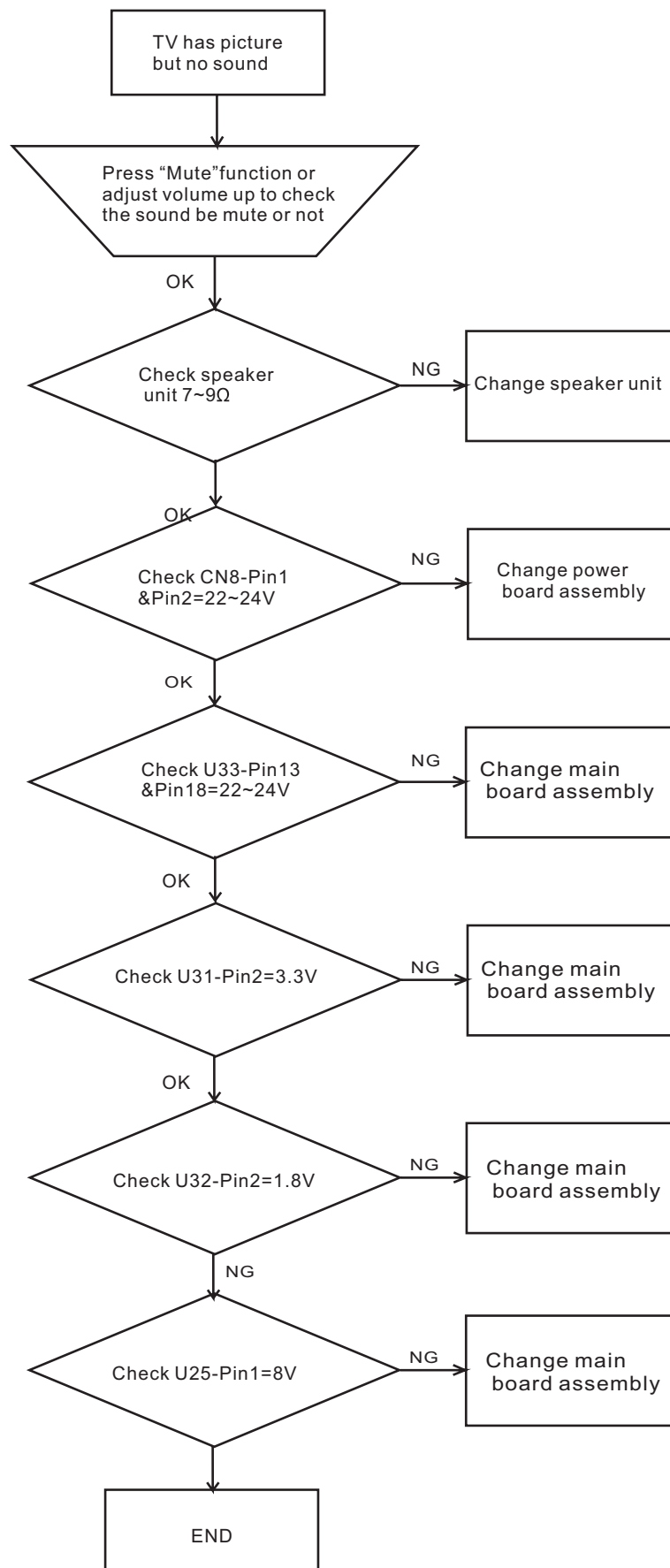
## Troubleshooting

The flow chart shown below will help you to troubleshoot your Television set with it doesn't display normally. Each procedure offers a simple way to check for system errors. Before starting, ensure that there is a signal in and that the television is turned on.



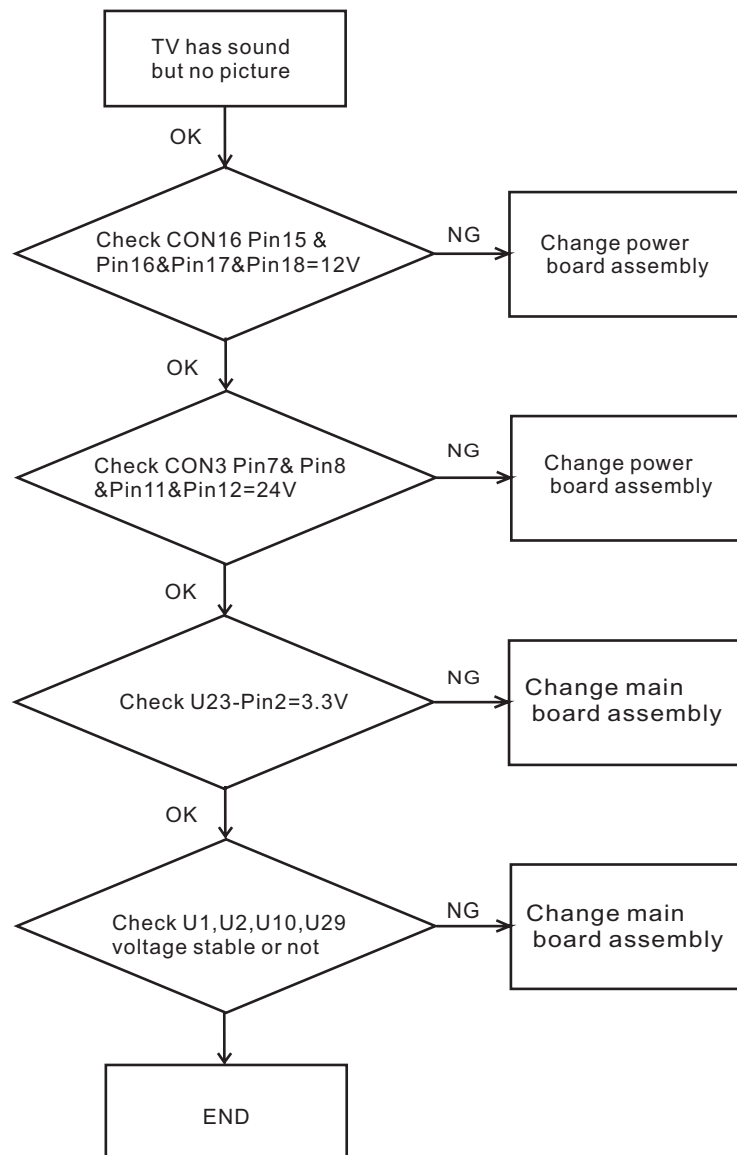


# Troubleshooting



# Troubleshooting

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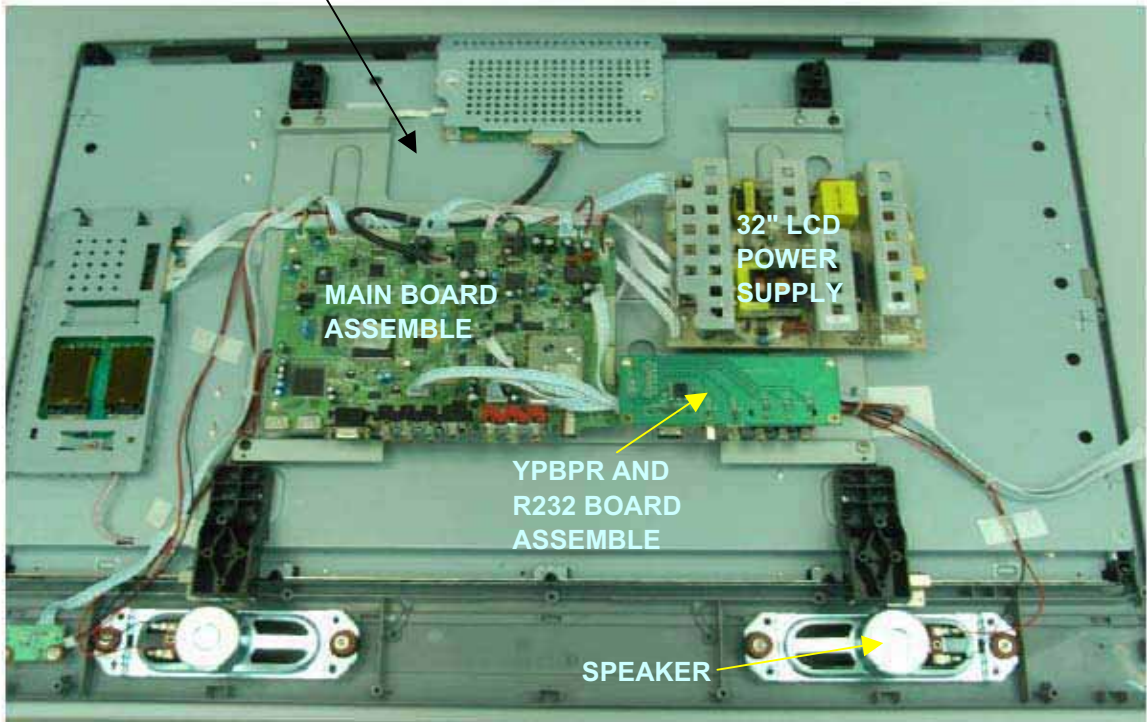
# Replacement Part List

The following service parts list are available for purchase. Serviceman may quote the components shown in this page for servicing purposes.

PRODUCT SAFETY NOTE : Components marked with a  have special characteristics important to safety. The use of a substitute replacement part which does not have the same safety characteristics may create shock, fire or other hazards. Don't degrade the safety of the receiver through improper servicing

| SYMBOL<br>No.                                                                     | PART<br>No.      | DESTRPTIONS                            |
|-----------------------------------------------------------------------------------|------------------|----------------------------------------|
|  | YZ2100020492     | MAIN BOARD ASSEMBLE                    |
|                                                                                   | YZ2100020495     | YPBPR AND R232 BOARD ASSEMBLE          |
|                                                                                   | YZ2100020496     | SIDE AV AND EARPHONE BOARD ASSEMBLE    |
|  | YZ2100020497     | MAIN POWER SWITCH CONTROL              |
|                                                                                   | YZ2100020498     | KEY CONTROL BOARD ASSEMBLE             |
|                                                                                   | YZ2100020500     | REMOTE CONTROL HANDSET CLE-996         |
|  | YZ531Z09416300   | 32" LCD POWER SUPPLY JSK4163-022       |
|                                                                                   | YZ560010812402   | SPEAKER 8 OHM 10W                      |
|  | YZ7607T320030000 | 32" LG.PHILIPS LCD LC32WXN-SAC1 1366X7 |

LCD LC32WXN-SAC1



SIDE AV AND EARPHONE BOARD ASSEMBLE



MAIN POWER SWITCH CONTROL

# Parts List

| Part No.             | Description                              | Qty       | Circuit No.                                                                    |
|----------------------|------------------------------------------|-----------|--------------------------------------------------------------------------------|
| 2200005878           | 8D60E-32L8A(L32A02A)                     |           |                                                                                |
| 000000002100020492   | 8D60E-32L8A(MI) MAIN BOARD ASSEMBLE      |           |                                                                                |
| 1 000000002100020493 | 8D60E-32L8A(TI) MAIN BOARD ASSEMBLE      | 1.000 PC  |                                                                                |
| 2 4300-BC107E-00     | ELECTROLYTIC CAPACITOR 100uF 16V +/-20%  | 9.000 PC  | C317 C257 C228 C223 C690<br>C214 C382 C385 C213                                |
| 3 4300-BC108E-00     | ELECTROLYTIC CAPACITOR 1000UF 16V +/-20% | 1.000 PC  | C326                                                                           |
| 4 4300-BD106E-00     | ELECTROLYTIC CAPACITOR 10UF 25V +/-20%   | 11.000 PC | C330 C131 C347 C125 C30<br>C343 C185 C146 C262 C149<br>C116                    |
| 5 4300-BD107E-00     | EC.100UF 25V +/-20%                      | 3.000 PC  | C172 C218 C226                                                                 |
| 6 4300-BD226E-00     | ELECTROLYTIC CAPACITOR 22UF 25V +/-20%   | 14.000 PC | C378 C36 C43 C260 C248<br>C251 C263 C346 C254 C255<br>C328 C246 C241 C243 C243 |
| 7 4300-BD337E-00     | EC.330UF 25V +/-20%                      | 2.000 PC  | C156 C224                                                                      |
| 8 4300-BD476E-00     | ELECTROLYTIC CAPACITOR 47uF 25V +/-20%   | 9.000 PC  | C376 C118 C300 C299 C298<br>C294 C295 C296 C297                                |
| 9 4300-BD477E-00     | ELECTROLYTIC CAPACITOR 470uF 25V +/-20%  | 5.000 PC  | C201 C179 C190 C387 C388                                                       |
| 10 4300-BE227E-00    | EC.220UF 35V +/-20%                      | 2.000 PC  | C173 C186                                                                      |
| 11 4300-BE228E-00    | ELECTROLYTIC CAPACITOR 2200UF 35V +/-20% | 1.000 PC  | C381                                                                           |
| 12 4300-EF474D-T0    | MPFC.0.47UF 63-100V +/-10%               | 2.000 PC  | C191 C181                                                                      |
| 13 4500-2EG50D-T0    | HSRD.EGP50D 200V/5A                      | 1.000 PC  | D14                                                                            |
| 14 4600-A10150-T0    | TRANSISTOR 2SA1015Y\2PA1015 (TAPE TYPE)  | 1.000 PC  | Q1                                                                             |
| 15 4600-C18150-T0    | TRANSISTOR 2SC1815Y/2PC1815 (TAPE TYPE)  | 1.000 PC  | Q3                                                                             |
| 16 4707-M24C64-08    | I.C. M24C64-WBN6 SGS (2.5V-5.5V 64K BIT  | 1.000 PC  | U3                                                                             |
| 17 4795-L78L08-03    | I.C.LM78L08 HTC(VOLTAGE REGULATORS)      | 1.000 PC  | U25                                                                            |
| 18 4800-013300-T0    | PEAKING COIL 33uH +/-10% (TAPE TYPE)     | 1.000 PC  | FB302                                                                          |
| 19 4900-114318-03    | CRYSTAL 14.31818MHz HC-49/US CL:18PF     | 1.000 PC  | Y1                                                                             |
| 20 4900-127052-01    | CRYSTAL 27.000000MHz HC-49/U CL:20PF +/- | 2.000 PC  | Y3 Y2                                                                          |
| 21 4900-128352-01    | CRYSTAL 28.322000MHz HC-49S              | 1.000 PC  | Y4                                                                             |
| 22 4900-140042-00    | CRYSTAL 4.000000MHz HC-49/U CL:20PF      | 1.000 PC  | Y5                                                                             |
| 23 4900-372575-0X00  | B/G L/L'M/N SAW FILTER K7257M70 33.90MH  | 1.000 PC  | SW1                                                                            |
| 24 4900-494565-00    | B/G D/K I L/L' SAW FILTER K9456M70 FOR   | 1.000 PC  | SW2                                                                            |
| 25 5221-389W18-00    | D/K I B/G L L'STANDARD FS TUNER 38.9MHZ  | 1.000 PC  | TUNER1                                                                         |
| 26 5400-925000-02    | WAFER 2.5mm H X 2 PIN                    | 3.000 PC  | CN6 CN7 CN30                                                                   |
| 27 5400-925000-03    | WAFER 2.54mm H X 3 PIN                   | 1.000 PC  | CN13                                                                           |
| 28 5400-925000-04    | WAFER 2.5mm H X 4 PIN                    | 1.000 PC  | CN8                                                                            |
| 29 5400-925000-09    | WAFER 2.5mm H X 9 PIN                    | 1.000 PC  | CN15                                                                           |
| 30 5400-925000-10    | WAFER 2.5mm H X 10 PIN                   | 1.000 PC  | CN16                                                                           |
| 31 5400-980001-20    | WAFER 2.0MM PITCH 10PINX2                | 1.000 PC  | CON16                                                                          |
| 32 5400-985000-03    | WAFER 2mm H X 3PIN                       | 1.000 PC  | CN12                                                                           |
| 33 5400-985000-04    | WAFER 2mm H X 4 PIN                      | 1.000 PC  | CN17                                                                           |
| 34 5400-985000-05    | WAFER 2mm H X 5 PIN                      | 2.000 PC  | CN25 CN14                                                                      |
| 35 5400-985000-06    | WAFER 2MM H X 6 PIN                      | 2.000 PC  | CN29 CN4                                                                       |
| 36 5400-985000-07    | WAFER 2MM H X 7 PIN                      | 1.000 PC  | CN5                                                                            |
| 37 5700-150120-00    | LED LIGHT EMISSION 3.1mm RED LONG LEAD   | 1.000 PC  | D13                                                                            |
| 38 6100-16060J-00    | RCA JACKx6 H - TYPE(PCB - MTG PITCH=14mm | 1.000 PC  | CN3                                                                            |
| 39 6100-166492-11    | RCA JACK X 6 H-TYPE PCB-MTG PITCH=14MM   | 1.000 PC  | CN1                                                                            |
| 40 6100-171600-50    | Y/C SOCKET + RCA JACK GREEN H=27mm W/MOU | 1.000 PC  | Cn2                                                                            |
| 41 6100-315000-00    | D-SUB RIGHT ANGLE SOCKET 15 PIN FEMALE   | 1.000 PC  | CN10                                                                           |
| 42 3802-010000-00    | FIBRE GLASS SLEEVING - DIA. 1.0mm        | 1.000 CM  |                                                                                |
| 000000002100020494   | 8D60 32" WXGA LG LC320WXN-SAC1 TFT LCD   |           |                                                                                |
| 1 7607-T32003-0000   | 32.0"LG.PHILIPS LCD LC320WXN-SAC1 1366X7 | 1.000 PC  | LG PANEL                                                                       |
| 2 5400-383302-30     | HOUSING 30 + HOUSING 20 + 300mm          | 1.000 PC  | FOR PANEL LVDS                                                                 |

# Parts List

| Part No.             | Description                              | Qty       | Circuit No.                                 |
|----------------------|------------------------------------------|-----------|---------------------------------------------|
| 000000002100020495   | 8D60E-32L8A(MI) YPBPR AND RS232BOARDASSE |           |                                             |
| 1 6100-163145-62     | RCA JACK X 3 H-TYPE W/MOUNTING BOSS (PCB | 1.000 PC  | CN83                                        |
| 2 6100-309000-05     | D-SUB RIGHT ANGLE SOCKET 9 PIN FEMALE    | 1.000 PC  | CN81                                        |
| 3 6100-16021A-01     | RCA JACK X 2 H-TYPE PITCH=14MM (WHITE RE | 1.000 PC  | CN85                                        |
| 4 5400-985000-11     | WAFER 2mm H X 11 PIN                     | 1.000 PC  | CN84                                        |
| 5 5400-925000-05     | WAFER 2.5mm H X 5 PIN                    | 1.000 PC  | CN82                                        |
| 6 000000002100020643 | 8D60E-32L8A(TI) YPBPR AND RS232BOARDASSE | 1.000 PC  |                                             |
| 000000002100020496   | 8D60E-32L8A(MI)SIDE AV AND EARPHONEBOARD |           |                                             |
| 1 6100-023500-00     | EARPHONE JACK 3.5mm STEREO W/SWITCH      | 1.000 PC  | P6                                          |
| 2 5400-984000-13     | 90 DEGREE PIN WAFER PH 13 PIN PITCH=2MM  | 1.000 PC  | P1                                          |
| 3 6100-160302-94     | RCA JACKX3 H-TYPE (PCB-MTG DITCH=14MM) R | 1.000 PC  | P7                                          |
| 4 000000002100020644 | 8D60E-32L8A(TI)SIDE AV AND EARPHONEBOARD | 1.000 PC  |                                             |
| 000000002100020497   | 8D60E-32L8A MAIN POWER SWITCH CONTROL    |           |                                             |
| 1 5400-970001-02     | WAFER 7.92mm PITCH PIN DIA. 1.14mm 2 PIN | 2.000 PC  | CN502 CN501                                 |
| 2 5540-020211-00     | MAIN POWER SWITCH KDC-A11 W/SCREW HOLE   | 1.000 PC  | SW501                                       |
| 3 5800-E32L8A-D010   | POWER KEY P.C.BOARD 55.8X 48mm 1 LAYER   | 1.000 PC  |                                             |
| 000000002100020498   | 8D60E-32L8A(MI) KEY CONTROLBOARDASSEMBLE |           |                                             |
| 1 5400-924000-02     | 90 DEGREE WAFER 2.5MM PITCH 2 PINS       | 1.000 PC  | CN12                                        |
| 2 5500-210380-00     | TACT SWITCH (90 DEGREE PIN) KNOB 1.5mm   | 7.000 PC  | K804 K805 K806 K803<br>K802 K801K800        |
| 3 000000002100020645 | 8D60E-32L8A(TI) KEY CONTROLBOARDASSEMBLE | 1.000 PC  |                                             |
| 000000002100020499   | 8D60E-32L8A RECEIVER CONTROL BOARD ASS   |           |                                             |
| 1 5300-140038-04     | INFRARED RECEIVER MODULE 38KHZ HSOO38B3V | 1.000 PC  | Ir501                                       |
| 2 5400-984000-05     | 90 DEGREE PIN WAFER PH 5 PIN PITCH=2mm   | 1.000 PC  | CON501                                      |
| 3 5700-250125-00     | LED LIGHT EMISSION 5.3mmX3mm RED,ORANGE  | 1.000 PC  | LED501                                      |
| 4 5800-R32L8A-D000   | IR P.C.BOARD 42X 25 mm 1 LAYER FOR 32L8A | 1.000 PC  |                                             |
| 000000002100020500   | 8D60E-32L8A CLE996 HANDSE (HITACHI)      |           |                                             |
| 1 0801-UM4AAA-09     | BATTERY UM-4AAA(ENTOP)                   | 2.000 PC  |                                             |
| 2 0806-HS5086-01     | REMOTE CONTROL 46KEYS FOR(8D60)"HITACHI  | 1.000 ST  |                                             |
| 000000002100020501   | PANAL LG#WXN-SAC1 PARTS ASSEMBLY         |           |                                             |
| 1 1011-32L8A0-01     | PANEL TOP BRACKET (ABS*BLACK)            | 2.000 PC  |                                             |
| 2 1011-32L8A0-02     | PANEL BOTTOM BRACKET (ABS*BLACK)         | 2.000 PC  |                                             |
| 3 1304-15L050-02     | RUBBER CUSHION DIA 18X10X5.0MM THK.      | 2.000 PC  | FOR PANEL HOLD PIECE                        |
| 4 1512-32L8A0-01     | PANEL HOLD PIECE FOR 32L8A/LG            | 7.000 PC  |                                             |
| 5 26BA-040120-B0     | BA 4 X 12 (BLACK)                        | 7.000 PC  | FOR PANEL HOLD PIECE                        |
| 6 26BM-040080-N0     | BM 4X8 8.000 PC FOR PANEL BKT TO PAN     |           |                                             |
| 000000002100020502   | MANUAL SWIVEL STAND PARTS ASSEMBLY       |           |                                             |
| 1 1020-32L8A0-03     | STAND PANEL #METALLIC MPG A901-(HIPS)    | 1.000 PC  | FOR L32A02A                                 |
| 2 1022-32L8A0-01     | STAND ROUND SUPPPORT (ABS*BLACK)         | 1.000 PC  |                                             |
| 3 1022-32L8A0-02     | STAND LEFT SUPPORT (ABS*PANTONE 426C)    | 1.000 PC  |                                             |
| 4 1022-32L8A0-03     | STAND RIGHT SUPPORT (ABS*PANTONE 426C)   | 1.000 PC  |                                             |
| 5 1511-32L8A0-02     | HINGE ROUND PLATE                        | 1.000 PC  |                                             |
| 6 26BA-040120-B0     | BA 4 X 12 (BLACK)                        | 12.000 PC | 7-HINGE ROUND PLATE&<br>5-STAND ARM & STAND |

# Parts List

| Part No.                                             | Description                          | Qty       | Circuit No.                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------|--------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 2812-PDP400-01                                     | RU ER OOT                            | 12.000 PC | OR STAND OOT                                                                                                                                                                                                                                                                                                                                                                                               |
| 8 EC1022-32L8A0-01                                   | ROTATE ROUND SPT. TOP ECNO.103230300 | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9 EC1022-32L8A0-02                                   | ROTATE ROUND SPT. OT.ECNO.103230001  | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10 1513-32L8A0-01                                    | STAND ALUMINIUM ARM OR 32L8A         | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11 1513-32L8A0-02                                    | STAND ASE OR 32L8A 42L8A             | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 12 26 A-040100-N0                                    | A 4 10                               | 18.000 PC | OR STAND ASE                                                                                                                                                                                                                                                                                                                                                                                               |
| 13 26 A-040160- 0                                    | A 4 16 LAC                           | 8.000 PC  | OR STAND ARM&<br>STAND SUPPORT                                                                                                                                                                                                                                                                                                                                                                             |
| 000000002100020503 8D60E-32L8A ART OR PARTS ASSEM LY |                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1 0100-32L8A0-02                                     | CARTON O "HITACHI" L32A02A           | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2 0601-32L8A0-0C                                     | AC LA EL "HITACHI" L32A02A-051       | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3 0902-100337-01                                     | NAME PLATE-"HITACHI" ASIA HITACHI    | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4 0116-32L8A0-00                                     | CARTON O OR ACCESSORIES O LCD32L8A   | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 000000002100020493 8D60E-32L8A TI MAIN OARD ASSEM LE |                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1 000000002100020505                                 | 8D60E TI 32" AL .PHILIPST TLCD       | 1.000 PC  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2 4100-CA0000-T0                                     | SMD RESIS 0 OHM 1 16 5% 1.6 0.8      | 29.000 PC | R31 R209 R86 R72 R226<br>R17 R322 R82 R207<br>R204 R202 R10 R274<br>R272 R14 R273 C301 R9<br>R221 R8 R323 R70 R248<br>R73 R11 R83 R29 R15 R279                                                                                                                                                                                                                                                             |
| 3 4100-CA1000-T0                                     | SMD RESIS 10 OHM 1 16 5% 1.6 0.8     | 8.000 PC  | R19 R163 R46 R154 R16<br>R48 R164 R155                                                                                                                                                                                                                                                                                                                                                                     |
| 4 4100-CA1010-T0                                     | SMD RESIS 100 OHM 1 16 5% 1.6 0.8    | 32.000 PC | R232 R315 R41 R64 R1<br>R55 R250 C311 R135<br>R44 R172 R171 R170<br>R127 R142 R24 R2 R56<br>R126 R281 R66 R50 R125<br>R38 R314 R358 R368 R85<br>R254 R53 R51 R42                                                                                                                                                                                                                                           |
| 5 4100-CA1020-T0                                     | SMD RESIS 1 OHM 1 16 5% 1.6 0.8      | 14.000 PC | R124 R112 R280 R79 R80<br>R67 R194 R364 R81 R370<br>R57 R363 R65 R153                                                                                                                                                                                                                                                                                                                                      |
| 6 4100-CA1030-T0                                     | SMD RESIS 10 OHM 1 16 5% 1.6 0.8     | 35.000 PC | R270 R227 R234 R167<br>R236 R217 R211 R228<br>R198 R159 R150 R145<br>R697 R160 R68 R277 R216<br>R156 R231 R91 R239 R189<br>R165 R92 R158 R694 R63<br>R208 R78 R199 R144 R113<br>R200 R269 R188                                                                                                                                                                                                             |
| 7 4100-CA1040-T0                                     | SMD RESIS 100 OHM 1 16 5% 1.6 0.8    | 72.000 PC | R114 R148 R294 R369<br>R137 R100 R290 R298<br>R300 R98 R115 R295 R99<br>R346 R345 R344 R343<br>R340 R339 R338 R347<br>R61 R284 R240 R238<br>R289 R296 R161 R120<br>R110 R138 R62 R5 R333<br>R331 R330 R329 R328<br>R101 R59 R291 R102<br>R90 R191 R292 R318 R58<br>R293 R121 R162 R60<br>R151 R337 R136 R105<br>R54 R342 R321 R139<br>R152 R235 R87 R332<br>R336 R297 R109 R341<br>R237 R299 R122 R97 R123 |



# Parts List

| Part No. | Description    | Qty                                   | Circuit No.                                                                                                                                                           |
|----------|----------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8        | 4100-CA1050-T0 | SMD RESIS 1M OHM 1 16 5% 1.6 0.8      | 1.000 PC R271                                                                                                                                                         |
| 9        | 4100-CA1230-T0 | SMD RESIS 12 OHM 1 16 5% 1.6 0.8      | 1.000 PC R317                                                                                                                                                         |
| 10       | 4100-CA1240-T0 | SMD RESIS 120 OHM 1 16 5% 1.6 0.8     | 2.000 PC R166 R157                                                                                                                                                    |
| 11       | 4100-CA1500-T0 | SMD RESIS 15 OHM 1 16 5% 1.6 0.8      | 4.000 PC R26 R27 R30 R28                                                                                                                                              |
| 12       | 4100-CA1510-T0 | SMD RESIS 150 OHM 1 16 5% 1.6 0.8     | 1.000 PC R319                                                                                                                                                         |
| 13       | 4100-CA2020-T0 | SMD RESIS 2 OHM 1 16 5% 1.6 0.8       | 3.000 PC R206 R169 R168                                                                                                                                               |
| 14       | 4100-CA2200-T0 | SMD RESIS 22 OHM 1 16 5% 1.6 0.8      | 11.000 PC R52 R47 R43 R33 R182 R45<br>R180 R49 R177 R34 R176                                                                                                          |
| 15       | 4100-CA2210-T0 | SMD RESIS 220 OHM 1 16 5% 1.6 0.8     | 6.000 PC R140 R130 R133 R129<br>R132 R128                                                                                                                             |
| 16       | 4100-CA2230-T0 | SMD RESIS 22 OHM 1 16 5% 1.6 0.8      | 2.000 PC R285 R268                                                                                                                                                    |
| 17       | 4100-CA3300-T0 | SMD RESIS 33 OHM 1 16 5% 1.6 0.8      | 4.000 PC R111 R7 R178 R262                                                                                                                                            |
| 18       | 4100-CA3310-T0 | SMD RESIS 330 OHM 1 16 5% 1.6 0.8     | 5.000 PC R71 R325 R324 R316 R244                                                                                                                                      |
| 19       | 4100-CA3320-T0 | SMD RESIS 3.3 OHM 1 16 5% 1.6 0.8     | 5.000 PC R359 R255 R351 R249 R360                                                                                                                                     |
| 20       | 4100-CA4700-T0 | SMD RESIS 47 OHM 1 16 5% 1.6 0.8      | 1.000 PC R320                                                                                                                                                         |
| 21       | 4100-CA4710-T0 | SMD RESIS 470 OHM 1 16 5% 1.6 0.8     | 16.000 PC R131 R93 R107 R94 R134<br>R116 R104 R95 R106 R119 R96<br>R146 R147 R334 R335 R103                                                                           |
| 22       | 4100-CA4720-T0 | MD RESIS 4.7 OHM 1 16 5% 1.6 0.8      | 24.000 PC R25 R276 R203 R283 R89<br>R308 R252 R251 R212 R88<br>R36 R278 R143 R256 R37<br>R220 R366 R35 R263 R367<br>R247 R222 R275 R23                                |
| 23       | 4100-CA5610-T0 | SMD RESIS 560 OHM 1 16 5% 1.6 0.8     | 1.000 PC R108                                                                                                                                                         |
| 24       | 4100-CA5620-T0 | SMD RESIS 5.6 OHM 1 16 5% 1.6 0.8     | 1.000 PC R312                                                                                                                                                         |
| 25       | 4100-CA6800-T0 | SMD RESIS 68 OHM 1 16 5% 1.6 0.8      | 2.000 PC R259 R258                                                                                                                                                    |
| 26       | 4100-CA6820-T0 | SMD RESIS 6.8 OHM 1 16 5% 1.6 0.8     | 1.000 PC R18                                                                                                                                                          |
| 27       | 4100-CA7500-T0 | SMD RESIS 75 OHM 1 16 5% 1.6 0.8      | 21.000 PC R264 R265 R3 R173 R260<br>R186 R192 R196 R183<br>R197 R174 R184 R309<br>R175 R4 R22 R190 R185<br>R187 R195 R355                                             |
| 28       | 4100-CA8220-T0 | SMD RESIS 8.2 OHM 1 16 5% 1.6 0.8     | 3.000 PC R193 R362 R365                                                                                                                                               |
| 29       | 4100-JA3300-T4 | SMD RESIS NET OR 33 OHM 1 10 5%       | 12.000 PC RN1 RN5 RN9 RN4 RN7<br>RN8 RN11 Rn10 Rn2 Rn12                                                                                                               |
| 30       | 4300-C 106H-T1 | SMD CAPACITOR 0805 10u 10 +80%-20% 2. | 31.000 PC C59 C92 C70 C145 C80<br>C64 C236 C282 C14 C74<br>C238 C151 C86 C148 C82<br>C98 C103 C363 C152 C87<br>C176 C247 C102 C72 C97<br>C219 C63 C384 C90 C76<br>C78 |
| 31       | 4300-CC105H-T2 | SCCC.1u 16 +80-20% 1.6 0.8mm          | 26.000 PC C130 C178 C49 C108 C150<br>C47 C42 C39 C38 C37 C48<br>C189 C110 C44 C109 C129<br>C23 C290 C127 C128 C147<br>C136                                            |
| 32       | 4300-CC224D-T2 | SMD CERAMIC CHIP CAPACITOR 0.22u 16 + | 2.000 PC C316 C374                                                                                                                                                    |
| 33       | 4300-CC334E-T2 | SMD CERAMIC CHIP CAPACITOR 0.33u 16 + | 1.000 PC C259                                                                                                                                                         |
| 34       | 4300-C 101C-T2 | SCCC.100P 50 + -5% 1.6 0.8mm          | 5.000 PC C26 C95 C94 C107 C373                                                                                                                                        |
| 35       | 4300-C 102D-T2 | SCCC.0.001u 50 + -10% 1.6 0.8mm       | 27.000 PC C162 C357 C340 C341<br>C335 C354 C285 C339<br>C286 C293 C279 C284<br>C338 C277 C352 C353<br>C278 C163C159<br>C158 C93 C355 C336<br>C356 C337 C280 C342      |

# Parts List

| Part No.          | Description                             | Qty        | Circuit No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 36 4300-C 103D-T2 | SCCC.0.01u 50 + -10% 1.6 0.8mm          | 17.000 PC  | C307 C68 C292 C304 C58<br>C165 C274 C232<br>C67 C306 C56 C289 C57<br>R353 C55 C303 C174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 37 4300-C 104D-T2 | SCCC.0.1u 50 + -10% 1.6 0.8mm           | 123.000 PC | C350 C364 C24 C10 C359<br>C100 C193 C244 C134<br>C258 C331 C360 C367<br>C239 C302 C288 C256<br>C332 C227 C366 C21 C32<br>C371 C368 C6 C266 C319<br>C41 C53 C75 C101 C155<br>C195 C114 C79 C60 C25 9<br>C365 C351 C283 C225<br>C168 C104 C252 C71 C96<br>C54 C245 C212 C324 C281<br>C220 C77 C320 C17 C51<br>C137 C124 C348 C386 C3<br>C13 C35 C7 C375 C61 C73<br>C65 C170 C237 C40 C18<br>C83 C5 C16 C11 C28 C45<br>C333 C249 C217 C139 C99<br>C275 C276 C312 C264 C52<br>C362 C291 C62 C46 C69<br>C91 C265 C242 C345 C89<br>C349 C323 C177 C240 C117<br>C15 C4 C379 C318 C66<br>C261 C8 C9 C253 C88 C171<br>C334 C377 C2 C12 C29<br>C183 C126 C120 C85 |
| 38 4300-C 152D-T2 | SCCC.0.0015u 50 + -10% 1.6 0.8mm        | 1.000 PC   | C315                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 39 4300-C 180C-T2 | SMD CERAMIC CHIP CAPACITOP 18P 50 + -5  | 4.000 PC   | C105 C344 C106 C358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 40 4300-C 220C-T2 | SCCC.22P 50 + -5% 1.6 0.8mm             | 5.000 PC   | C230 C372 C229 C184 C194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 41 4300-C 272D-T2 | SMD CERAMIC CHIP CAPACITOR 0.0027u 50   | 3.000 PC   | C327 C84 C81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 42 4300-C 300C-T2 | SMD CERAMIC CHIP CAPACITOR              | 2.000 PC   | C20 C19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 43 4300-C 330C-T2 | SCCC.33P 50 + -5% 1.6 0.8mm             | 1.000 PC   | C310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 44 4300-C 331D-T2 | SMD CERAMIC CHIP CAPACITOR 330P 50 + -  | 15.000 PC  | C204 C206 C211 C203 C205<br>C209 C199 C313 C207 C208<br>C202 C198 C210 C197 C200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 45 4300-C 332D-T2 | SCCC.0.0033u 50 + -10% 1.6 0.8mm        | 2.000 PC   | C268 C269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 46 4300-C 333D-T2 | SCCC.0.033u 50 + -10% 1.6 0.8mm         | 2.000 PC   | C140 C138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 47 4300-C 472D-T2 | SCCC.0.0047u 50 + -10% 1.6 0.8mm        | 9.000 PC   | C154 C180 C142 C187 C153<br>C188 C221 C141 C175                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 48 4300-C 474D-T2 | SMD CERAMIC CHIP CAPACITOR 1P 50 + -10  | 3.000 PC   | C1 C314 C308                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 49 4300-C 682D-T2 | SMD CERAMIC CHIP CAPACITOR 0.0068u 50   | 2.000 PC   | C322 C321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 50 4300-N 022C-T2 | SMD NPO CERAMIC CHIP CAPACITOR          | 1.000 PC   | C32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 51 4300-N 391C-T2 | SNCCC.390P 50 + -5% 1.6 0.8mm           | 3.000 PC   | C192 C182 C305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 52 4300-N 470C-T2 | SNCCC.47P 50 + -5% 1.6 0.8mm            | 2.000 PC   | C115 C169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 53 4300-N 471C-T2 | SNCCC.470P 50 + -5% 1.6 0.8mm           | 18.000 PC  | C144 C132 C157 C161<br>C119 C369 C123 C133<br>C370 C234 C235 C122 C121<br>C160 C113 C143 C380 C112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 54 4300-N 681C-T2 | SMD CERAMIC CHIP CAPACITOR 680P 50      | 2.000 PC   | C50 C215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 55 4500-14148S-T0 | SNRD. LS4148 150mA 100 3.5 1.4mm        | 6.000 PC   | D305 D9 D15 D308 D12 D309                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 56 4500-2S1400-T0 | SM SCHOTT Y ARRIER RECTI IER 40 1A      | 2.000 PC   | D4 D2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 57 4500-400051-T1 | ZENER DIODE 5 1 1 2 SMD PAC A E TAPE TY | 2.000 PC   | D7 D6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



# Parts List

| Part No.                                                   | Description                              | Qty       | Circuit No.                                                                                                                                  |
|------------------------------------------------------------|------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 58 4500-400062-T4                                          | ZENER DIODE 6 2 500 m SMD                | 2.000 PC  | D1 D3                                                                                                                                        |
| 59 4500-50 990-T0                                          | SMD S ITCHIN DIODE A 99 TAPE TYPE        | 1.000 PC  | D307                                                                                                                                         |
| 60 4600- 84701-T0                                          | TRANSISTOR C847C NPN ENERAL PURPOSE TR   | 13.000 PC | 10 6 305 11 310 12                                                                                                                           |
| 61 4701-T54990-64                                          | SMD I.C.T5 S4-9999 TOSHI A               | 1.000 PC  | U43 9 8 7 5 304 2                                                                                                                            |
| 62 4706-D98860-24                                          | SMD I.C.TDA9886TS 4 PHILIPS              | 1.000 PC  | U301                                                                                                                                         |
| 63 4706-H40523-16                                          | I.C.HE 4052 T PHILIPS 4-CH MULTIPLE ER   | 2.000 PC  | U9 U29                                                                                                                                       |
| 64 4706-L74573-20                                          | I.C.74L C573A PHILIPS OCTAL D-TYPE TRANS | 1.000 PC  | U6                                                                                                                                           |
| 65 4722-C74142-14                                          | I.C.SN74L C14 T.I. HE SCHMITT-TRI ER I   | 1.000 PC  | U13                                                                                                                                          |
| 66 4725-P23081-08                                          | I.C.PT2308-S PTC HEADPHONE DRI ER IC S   | 1.000 PC  | U303                                                                                                                                         |
| 67 4726-LM8090-03                                          | I.C.LM809M3-2.93 N.S.                    | 1.000 PC  | U7                                                                                                                                           |
| 68 472 -P33000-16                                          | I.C.PI5 330 EPERICOM IDEO UAD 2-CHA      | 1.000 PC  | U10                                                                                                                                          |
| 69 472 -P33060-08                                          | I.C.PI5C3306LE PERICOM 2- IT US S ICH A  | 1.000 PC  | U30                                                                                                                                          |
| 70 474J-E63830-86                                          | I.C.EM638325TS-6 ETRONTECH TSOP II       | 1.000 PC  | U2                                                                                                                                           |
| 71 475M-C11170-03                                          | I.C.C 1117-3.3 SILICON CORE RE ULATOR    | 2.000 PC  | U21 U31                                                                                                                                      |
| 72 476A-M77220-20                                          | IC MP7722D MPS STEREO SIN LE ENDED AUDI  | 1.000 PC  | U33                                                                                                                                          |
| 73 4779-S39040-32                                          | I.C.SST39 040 SST                        | 1.000 PC  | U5                                                                                                                                           |
| 74 4791-S P320- 8                                          | SMD I.C.S PTMC 32TRIDENT                 | 1.000 PC  | U1                                                                                                                                           |
| 75 47A -A10843-03                                          | I.C.AZ1084 CD 3.3 5A LO DROPOUT LINEA    | 1.000 PC  | U23                                                                                                                                          |
| 76 47A -A11172-03                                          | SMD I.C. AZ1117 H-1.8TRE1 CD SOT-223     | 3.000 PC  | U22 U24 U32                                                                                                                                  |
| 77 4800-310100-T1                                          | SMD CHIP COIL 10uH + -10% 3.2 1.6mm      | 7.000 PC  | L8 L10 L7 L24 L26 L25 L9                                                                                                                     |
| 78 4800-310220-T0                                          | SMD CHIP COIL 2.2uH + -5% 3.2 1.6mm TAPE | 8.000 PC  | L3 L4 L1 2 L6 L2 L5 L29                                                                                                                      |
| 79 4800-S20333-T1                                          | SPC.33UH + -10% 12MM 12MM                | 4.000 PC  | L33 L12 L32 L11                                                                                                                              |
| 80 4800-S71020-T0                                          | SMD CHIP COIL 1000UH+ -5% 4.5 3.2 3.2MM  | 2.000 PC  | L34 L35                                                                                                                                      |
| 81 5700-ESD603-09                                          | SMD ESD PROTECTION M S0603E09            | 10.000 PC | DM2 DM4 DM7 DM8 DM5<br>DM6 DM1 DM9 Dm10 DM3                                                                                                  |
| 82 5800-A8D60E-0000                                        | MAIN P.C. OARD172*228MM 2LAYERS OR8D60E  | 1.000 PC  | PC                                                                                                                                           |
| 83 6400-011600-T0                                          | SMD ERRITE EAD 1.6 0.8mm 60 OHM          | 29.000 PC | 5 20 304 L14 24<br>7 L16 6 16 L15 25<br>L13 22 301 15 B3<br>B23 11 B1<br>28 14 L19 9 L18<br>13 27 L17 B4 B8<br>18 17 12 10 L31<br>21 B19 B26 |
| 84 6400-012600-T0                                          | SMD ERRITE EAD 2 1.25mm 60 OHM           | 8.000 PC  |                                                                                                                                              |
| 85 4707-S83170-A0                                          | SMD I.C. ST 8317 ST T SOUND PROCESSIN    | 1.000 PC  | U8                                                                                                                                           |
| 86 000000002100016733                                      | 8D60 TI T O HDMI UNCTION ON MAIN OARD    | 1.000 PC  |                                                                                                                                              |
| 000000002100020643 8D60E-32L8A TI YP PR AND RS232 OARDASSE |                                          |           |                                                                                                                                              |
| 1 4300-CC105H-T2                                           | SCCC.1u 16 +80-20% 1.6 0.8mm             | 5.000 PC  | C81 C82 C83 C84 C85                                                                                                                          |
| 2 4300-C 331D-T2                                           | SMD CERAMIC CHIP CAPACITOR 330P 50 + -   | 5.000 PC  | C86 C87 C88 C89 C90                                                                                                                          |
| 3 5700-ESD603-09                                           | SMD ESD PROTECTION M S0603E09            | 5.000 PC  | DM81 DM82 DM83 Dm84<br>DM85                                                                                                                  |
| 4 4722-M32320-0160                                         | SMD IC MA 3232ECD RTE AS SOIC-D          | 1.000 PC  | U81                                                                                                                                          |
| 5 5800- 42L8A-D010                                         | SA P.C. OARD 140 50mm 1 LAYER OR 8D60    | 1.000 PC  | PC                                                                                                                                           |
| 000000002100020644 8D60E-32L8A TI SIDE A AND EARPHONE OARD |                                          |           |                                                                                                                                              |
| 1 4300-C 331D-T2                                           | SMD CERAMIC CHIP CAPACITOR 330P 50 + -   | 3.000 PC  | C1 C2 C3                                                                                                                                     |
| 2 5700-ESD603-09                                           | SMD ESD PROTECTION M S0603E09            | 3.000 PC  | D1 D2 D3                                                                                                                                     |
| 3 5800- 32L8A-D000                                         | A P.C. OARD 100 25mm 1 LAYER OR 32L8A    | 1.000 PC  | PC                                                                                                                                           |
| 000000002100020645 8D60E-32L8A TI EY CONTROL OARDASSEM LE  |                                          |           |                                                                                                                                              |
| 1 4100-CA1020-T0                                           | SMD RESIS 1 OHM 1 16 5% 1.6 0.8          | 1.000 PC  | R902                                                                                                                                         |
| 2 4100-CA1520-T0                                           | SMD RESIS 1.5 OHM 1 16 5% 1.6 0.8        | 1.000 PC  | R901                                                                                                                                         |

Parts List

| Part No.                                                | Description                              | Qty      | Circuit No.       |
|---------------------------------------------------------|------------------------------------------|----------|-------------------|
| 3 4100-CA3310-T0                                        | SMD RESIS 330 OHM 1 16 5% 1.6 0.8        | 1.000 PC | R906              |
| 4 4100-CA3910-T0                                        | SMD RESIS 390 OHM 1 16 5% 1.6 0.8        | 1.000 PC | R905              |
| 5 4100-CA5610-T0                                        | SMD RESIS 560 OHM 1 16 5% 1.6 0.8        | 1.000 PC | R904              |
| 6 4100-CA8210-T0                                        | SMD RESIS 820 OHM 1 16 5% 1.6 0.8        | 1.000 PC | R903              |
| 7 5800-D32L8A-D000                                      | EY P.C. OARD 136 25mm 1 LAYER OR 32L8A   | 1.000 PC | PC                |
| 0000000021000205058D60E TI 32" A L .PHILIPST TLCD       |                                          |          |                   |
| 1 4100-CA3320-T0                                        | SMD RESIS 3.3 OHM 1 16 5% 1.6 0.8        | 1.000 PC | R74               |
| 2 4500-14148S-T0                                        | SNRD. LS4148 150mA 100 3.5 1.4mm         | 1.000 PC | D10               |
| 3 6400-012600-T0                                        | SMD ERRITE EAD 2 1.25mm 60 OHM           | 1.000 PC | L21               |
| 4 47AN-P06030-08                                        | SMD IC P06 03L NI O DUAL P-CHANNEL MO    | 1.000 PC | U18               |
| 5 4100-CA1030-T0                                        | SMD RESIS 10 OHM 1 16 5% 1.6 0.8         | 1.000 PC | R201              |
| 0000000021000167338D60 TI T O HDMI UNCTION ON MAIN OARD |                                          |          |                   |
| 1 4727-A24C02-08                                        | I.C. AT24C02AN-10SC ATMEL EEPROM         | 2.000 PC | U26 U26A          |
| 2 472 -R05240-10                                        | SMD I.C. RCLAMP0524P SEMTECH 10-PIN      | 4.000 PC | U49A U48A U49 U48 |
| 3 47AU-A90210-E4                                        | I.C.AN 9021 ANALO I DUAL-CHANNEL HDMI R  | 1.000 PC | U50               |
| 4 6100-151910-T1                                        | SMD HDMI RI HT AN LE HEADER SOC ET 19PIN | 2.000 PC | CN22 Cn23         |

# Parts List of AC Power Supply Unit

|   | Description               | Contents                                                         | Cct Number        |
|---|---------------------------|------------------------------------------------------------------|-------------------|
|   | Thermistor                | NTC SCK101R55MSY 1.5Ω M 5A Φ 10 S E138827 TKS                    | TH1               |
| ⚠ | Surge Supression Varistor | SVR-14N561K Φ14 350VAC/460VDC K E153360 (Success Elec. Co., Ltd) | VR1               |
| ⚠ | Bridge Resistor           | RI81 9.1M 1/2W J E205990 (Inner Monglia Erdos Elec. Co. Ltd)     | R65               |
|   | Resistor                  | 5mΩ 8A J Φ1.6*10mm                                               | RS2,RS3           |
|   | Resistor                  | WW 0.1R 3W J                                                     | R24               |
|   | Resistor                  | MOF 1Ω 2W J                                                      | R6                |
|   | Resistor                  | MOF 47K 2W J                                                     | R5                |
|   | Resistor                  | MF 1K 1/8W F                                                     | RS30              |
|   | Resistor                  | MF 1K 2W F                                                       | RS1,RS4           |
| ⚠ | Fuse                      | TSC T 5AH/250VAC Φ5*20 E56052 (Walter Elec. Co., Ltd.)           | F1                |
| ⚠ | Capacitor                 | Class-X2 684/275VAC K 18*18.5*11*15 E120045 CARLI                | CX1               |
| ⚠ | Capacitor                 | Class-X2 334/275VAC K 18*14.5*8.5*15 E120045 CARLI               | CX2               |
|   | Capacitor                 | MMX 684/450VDC K 17.8*14.8*7.0*15 0.8/1KHZ                       | C12               |
|   | Capacitor                 | MPD 333/300VAC K 18.2*11.6*6.5*15 0.1/1KHZ                       | C16               |
| ⚠ | Capacitor                 | Y5U Class-Y1 102/250VAC 125°C M 9*6*10 E146544 (Walsin)          | CY5               |
| ⚠ | Capacitor                 | Y5P Class-Y1 471/250VAC 125°C K 10*6*10 E146544 (Walsin)         | CY1,CY2           |
|   | Capacitor                 | 150uF/450V 105°C M GP 22*36*10 710mA KM CAPXON                   | C13               |
|   | Capacitor                 | 22UF/50V 105°C M GP 5*11*2.0 79mA KM                             | C1,C7             |
|   | Capacitor                 | 10UF/50V 105°C M GP 5*11*2.0 54mA KM                             | C31               |
|   | Capacitor                 | 47UF/25V 105°C M GP 5*11*2.0 84mA KM                             | C5                |
|   | Capacitor                 | 470UF/35V 105°C M LR 8*20*3.5 1870mA GD                          | CS3               |
|   | Capacitor                 | 2200uF/16V 105°C M EL 10*25*5.0 3000mA LZ                        | CS6,CS11          |
|   | Capacitor                 | 470UF/16V 105°C M GP 8*11.5*3.5 370mA KM                         | CS7,CS12,CS14     |
|   | Capacitor                 | 1000uF/35V 105°C M LR 12.5*20*5.0 1900mA GF                      | CS1,CS2           |
|   | Capacitor                 | CERAMIC Z5U 222/1KV M P:5mm                                      | C10               |
|   | Capacitor                 | CERAMIC Y5P 221/1KV K P:5mm                                      | C17               |
|   | Diode                     | 1N4148 0.15A/75V DO-35 ST                                        | DS13              |
|   | Diode                     | BZX55/C13V 0.5W 12.4-14.1V DO-35 ST                              | ZDS4              |
|   | Diode                     | FR107 1A/1000V DO-41 HY                                          | D6,D10,D11        |
|   | Diode                     | 1N4007 1A/1000V DO-41 HY                                         | D21               |
|   | Diode                     | MUR460 4A/600V DO-201AD ON                                       | D1                |
| ⚠ | Opto-Coupler              | PC817 CTR 130-260 DIP-4 SHARP                                    | IC2,IC3,IC4       |
|   | IC                        | FSCKA431A 1% TO-92 FAIRCHILD                                     | ICS1,ICS2         |
|   | IC                        | CONTROLLER ICE3B1065 PG-DIP-8-6 infineon                         | IC5               |
|   | 三极管                       | NPN H2N3904 0.2A/40V TO-92 HEF100-300                            | QS4,Q7,Q8,Q10,Q11 |
|   | Bridge Rectifier          | US6KB80R 6A/800V                                                 | BD1               |

# Parts List of AC Power Supply Unit

|   | Description       | Contents                                             | Cct Number              |
|---|-------------------|------------------------------------------------------|-------------------------|
|   | Diode             | SF10L60U 10A/600V TO-220F                            | D2                      |
|   | Transistor        | N STP9NK50ZFP 7.2A/500V 0.72 $\Omega$ TO-220FP ST    | Q1,Q2                   |
|   | Transistor        | N FQA18N50V2 20A/500V 0.265 $\Omega$ TO-3P FAIRCHILD | Q4                      |
|   | Diode             | FCH20A10/FCH20U10 20A/100V TO-220                    | DS1,DS2                 |
|   | Diode             | FCH20A06 20A/60V TO-220                              | DS3,DS5                 |
| ⚠ | Mains Transformer | BCK-35-518D (Shenzhen Jewel Elec. & Tech. Co., Ltd)  | T4                      |
| ⚠ | Mains Transformer | BCK-25-0169 (Shenzhen Jewel Elec. & Tech. Co., Ltd)  | T2                      |
| ⚠ | PFC L1            | JLC3584 (Shenzhen Jewel Elec. & Tech. Co., Ltd)      | L1                      |
| ⚠ | Line Filter       | JLB1805 (Shenzhen Jewel Elec. & Tech. Co., Ltd)      | LF2,LF1                 |
|   | 电感器               | JLC0510                                              | LS1                     |
|   | 电感器               | JLC0421                                              | LS2,LS3                 |
| ⚠ | AC Main Connector | 5P Connector with base (2P active) - EMS-Chemie.AG   | CON1                    |
|   | DC Connector      | 5P Connector with base                               | CON3                    |
|   | Connector         | 12P Connector with base                              | CON4                    |
|   | DC Connector      | 9P Connector with base                               | CON5                    |
|   | DC Connector      | 4P Connector with base                               | CON6                    |
|   | Resistor          | 680K 1/8W 200V J 1206                                | R7,R8,R45,R46           |
|   | Resistor          | 10K 1/8W 200V J 1206                                 | R12,R19,R22             |
|   | Resistor          | 330 $\Omega$ 1/8W 200V J 1206                        | R37                     |
|   | Resistor          | 47 $\Omega$ 1/8W 200V J 1206                         | R11,R13                 |
|   | Resistor          | 10 $\Omega$ 1/8W 200V J 1206                         | R14,R52,R3,R15,R18      |
|   | Resistor          | 22K 1/8W 200V J 1206                                 | R2                      |
|   | Resistor          | 22 $\Omega$ 1/8W 200V J 1206                         | R21,RS13,RS14,R1        |
|   | Resistor          | 15K 1/8W 200V J 1206                                 | RS22,RS41,R51,R54       |
|   | Resistor          | 0 $\Omega$ 1/8W 200V J 1206                          | JP3,JP8,JP33,JP41,JP44  |
|   | Resistor          | 1K 1/8W 200V J 1206                                  | RS35,RS37               |
|   | Resistor          | 2K 1/8W 200V J 1206                                  | R10                     |
|   | Resistor          | 13K 1/8W 200V F 1206                                 | R29                     |
|   | Resistor          | 100 $\Omega$ 1/8W 200V J 1206                        | R38                     |
|   | Resistor          | 470 $\Omega$ 1/8W 200V J 1206                        | RS39,RS40               |
|   | Resistor          | 680K 1/8W 200V F 1206                                | R26,R27,R28,R43,R44,R64 |
|   | Resistor          | 1M 1/8W 200V J 1206                                  | R60,R61,R62             |
|   | Resistor          | 510K 1/8W 200V J 1206                                | R34                     |
|   | Resistor          | 4.7 $\Omega$ 1/8W 200V J 1206                        | R25                     |
|   | Resistor          | 16K 1/10W 150V F 0805                                | RS8                     |
|   | Resistor          | 220 $\Omega$ 1/10W 150V J 0805                       | RS21,RS28               |
|   | Resistor          | 100K 1/10W 150V J 0805                               | R40,R55,R57,R66         |
|   | Resistor          | 20K 1/10W 150V J 0805                                | RS24                    |
|   | Resistor          | 1M 1/10W 150V J 0805                                 | R59                     |
|   | Resistor          | 15K 1/10W 150V J 0805                                | RS29,R35                |
|   | Resistor          | 8.2k 1/10W 150V F 0805                               | R16                     |
|   | Resistor          | 330 $\Omega$ 1/10W 150V J 0805                       | R41                     |
|   | Resistor          | 3.09K 1/10W 150V F 0805                              | RS18                    |
|   | Resistor          | 3.3K 1/10W 150V J 0805                               | R36                     |
|   | Resistor          | 680 $\Omega$ 1/10W 150V F 0805                       | RS16,RS26               |

# Parts List of AC Power Supply Unit

|  | Description    | Contents                                        | Cct Number                                                                                           |
|--|----------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  | Resistor       | 390K 1/10W 150V F 0805                          | R56,R58                                                                                              |
|  | Resistor       | 0Ω 1/10W 150V J 0805                            | JP25,JP39,JP40                                                                                       |
|  | Resistor       | 1K 1/10W 150V J 0805                            | RS19,RS33,RS36                                                                                       |
|  | Resistor       | 6.2K 1/10W 150V F 0805                          | RS5                                                                                                  |
|  | Resistor       | 47K 1/10W 150V J 0805                           | RS25                                                                                                 |
|  | Resistor       | 3K 1/10W 150V F 0805                            | RS6,RS20                                                                                             |
|  | Resistor       | 4.7K 1/10W 150V J 0805                          | R4,R39                                                                                               |
|  | Resistor       | 33K 1/10W 150V F 0805                           | RS9                                                                                                  |
|  | Resistor       | 10K 1/10W 150V J 0805                           | RS7,RS31,RS32,R67                                                                                    |
|  | Resistor       | 2K 1/10W 150V F 0805                            | RS10,RS17,RS27                                                                                       |
|  | Capacitor      | NPO 102/50V J 1206                              | CS13                                                                                                 |
|  | Capacitor      | X7R 103/50V K 0805                              | C20,C41                                                                                              |
|  | Capacitor      | X7R 224/50V K 0805                              | C40                                                                                                  |
|  | Capacitor      | X7R 105/25V K 0805                              | C6,C9,C21,CS27                                                                                       |
|  | Capacitor      | X7R 333/50V K 0805                              | C15                                                                                                  |
|  | Capacitor      | X7R 223/50V K 0805                              | C24                                                                                                  |
|  | Capacitor      | NPO 10/50V J 0805                               | C3                                                                                                   |
|  | Capacitor      | NPO 102/50V J 0805                              | C18,C26                                                                                              |
|  | Capacitor      | X7R 104/50V K 0805                              | C4,C8,C19,C25,C29,C42,CS4,CS10,CS15,CS17,CS20,CS21,CS22,CS23,CS24,CS25,CS26,CS28,CS29,CS30,CS31,CS32 |
|  | Diode          | LS4148 0.15A/100V LS-34                         | D3,D4,D5,D7,D8,D15,D16,D22,DS9,DS10,DS11,DS12                                                        |
|  | Transistor     | PNP MMBT3906LT1G -0.2A/40V SOT-23 HFE100-300 ON | QS2,Q6                                                                                               |
|  | Transistor     | NPN MMBT3904LT1G 0.2A/40V SOT-23 HEF100-400 ON  | QS3                                                                                                  |
|  | IC             | AS431HM/TR-LF 1% SOT-23-3 A1semi                | ICS5                                                                                                 |
|  | Diode          | ZMM13V 0.5W 12.4-14.1V LL-34 ST                 | ZD4                                                                                                  |
|  | Diode          | ZMM18V 0.5W 16.8-19.1V LL-34 ST                 | ZD2,ZD3                                                                                              |
|  | Diode          | ZMM27V 0.5W 25.1-28.9V LL-34 ST                 | ZDS1                                                                                                 |
|  | Diode          | ZMM15V 0.5W 13.8-15.6V LL-34 ST                 | ZDS2,ZD6                                                                                             |
|  | MOS Transistor | N 2SK3919 64A/25V 0.0056Ω TO-252 NEC            | QS1                                                                                                  |
|  | IC             | COMPARATORS LM393DR2G SOIC-8 ON                 | ICS3                                                                                                 |
|  | IC             | CONTROLLER L6599D SO-16N ST                     | IC6                                                                                                  |
|  | IC             | PFC FAN7530MX 8-SOP Fairchild                   | IC1                                                                                                  |
|  | Capacitor      | NPO 331/50V J 0805                              | C28                                                                                                  |
|  | Capacitor      | X5R 106/6.3V K 0805                             | CS33                                                                                                 |
|  | Capacitor      | NPO 221/50V J 0805                              | C32                                                                                                  |
|  | Diode          | ZMM13HSC 0.5W 13.03-13.62V LL-34 ST             | ZD5                                                                                                  |
|  | Resistor       | 560Ω 1/8W 200V J 1206                           | RS23                                                                                                 |
|  | Capacitor      | X7R 473/50V K 0805                              | CS9                                                                                                  |
|  | Capacitor      | X7R 474/25V K 0805                              | CS18                                                                                                 |
|  | Capacitor      | 150uF/450V 105°C M GP 22*36*10 710mA KM CAPXON  | C13                                                                                                  |

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**L32S02A, L32A02A, L32E200, L32R200,  
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