

Service
Service
Service



Service Manual

Horizontal Frequency
31-80 KHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

Revision List

| Version | Release Date | Revision History | TPV Model Name |
|---------|--------------|---|----------------|
| A00 | Apr.07.2011 | Initial release | TI92A82BW6E1HN |
| A01 | Dec.12,2011 | Add new power board: 715G4219P02000004S Update: Block Diagram Schematic PCB Layout BOM List | TIAGA82MW6E1HN |
| | | | TIAGA82BW6E1HN |
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Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiations when open AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

-Must mount the module using mounting holes arranged in four corners.

-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.

-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.

-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).

-Make certain that treatment person's body is grounded through wristband.

-Do not leave the module in high temperature and in areas of high humidity for a long time.

-Avoid contact with water as it may a short circuit within the module.

-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. Monitor Specifications

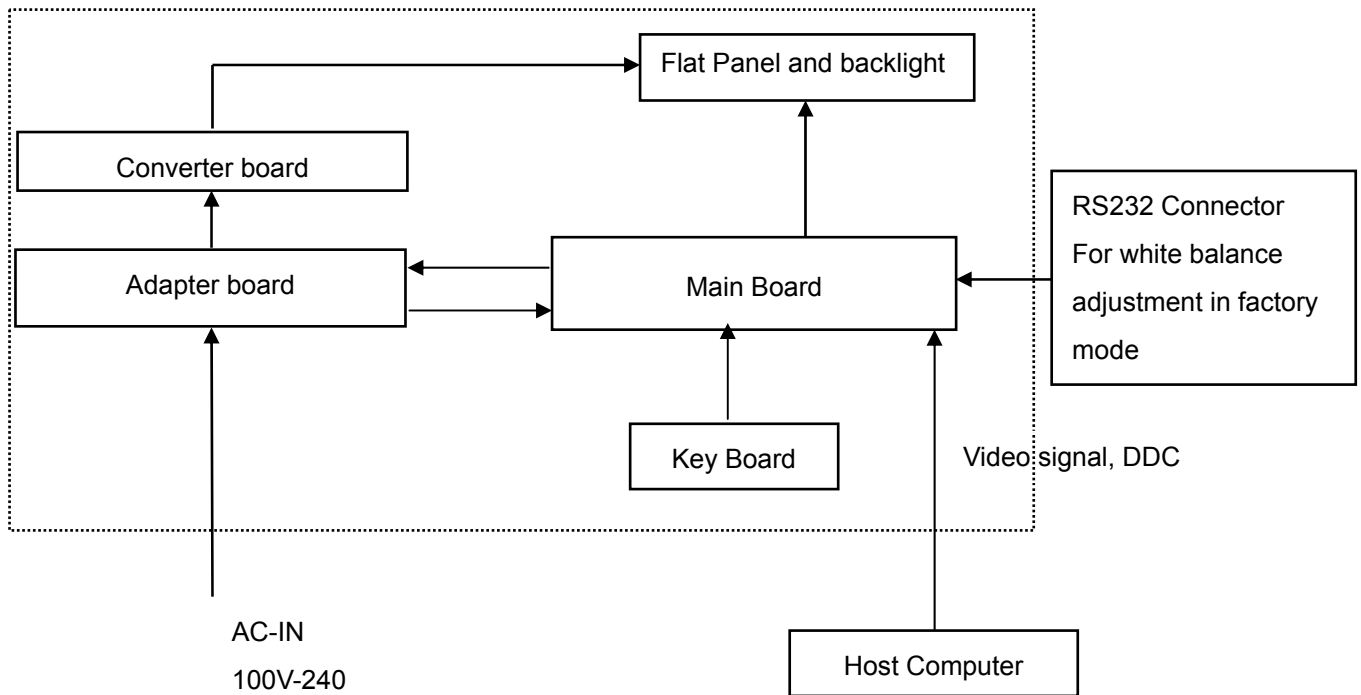
| | | |
|--------------------------|-------------------------------|--|
| LCD Panel | Model number | P2271wL |
| | Driving system | TFT Color LCD |
| | Viewable Image Size | 54.69cm diagonal |
| | Pixel pitch | 0.248mm(H) x 0.248mm(V) |
| | Video | R, G, B Analog Interface & Digital Interface |
| | Separate Sync. | H/V TTL |
| | Display Color | 16.7M Colors |
| | Dot Clock | 148.5MHz |
| Resolution | Horizontal scan range | 31kHz - 80 kHz |
| | Horizontal scan Size(Maximum) | 476.64mm |
| | Vertical scan range | 56Hz - 75 Hz |
| | Vertical scan Size(Maximum) | 268.11mm |
| | Optimal preset resolution | 1920 x 1080 (60 Hz) |
| | Highest preset resolution | 1920 x 1080 (60 Hz) |
| | Plug & Play | VESA DDC2B/CI |
| | Input Connector | D-Sub 15pin & DVI-D |
| | Input Video Signal | Analog: 0.7Vp-p(standard), 75 OHM, Positive & DVI-D Digital Interface (TMDS) |
| | Power Source | 100~240VAC, 50/60Hz |
| | Power Consumption | Active < 28W Standby < 1W |
| Physical Characteristics | Connector Type | 15-pin Mini D-Sub & DVI-D |
| | Signal Cable Type | Detachable |
| | Dimensions & Weight: | |
| | Height (with base) | 365.80mm |
| | Width | 505.6mm |
| | Depth | 179.78mm |
| | Weight (monitor only) | 3.5kg |
| | Weight (with packaging) | 5.0kg |
| Environmental | Temperature: | |
| | Operating | 0° to +40° |
| | Non-Operating | -20°to +60° |
| | Humidity: | |
| | Operating | 20% to 90% (non-condensing) |
| | Non-Operating | 10% to 90% (non-condensing) |
| | Altitude: | |
| | Operating | 0~ 6562ft |
| | Non-Operating | 0~ 40000ft |

2. LCD Monitor Description

The LCD monitor will contain a main board, an Adapter board, a converter board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

Monitor Block Diagram



3. Operating Instructions

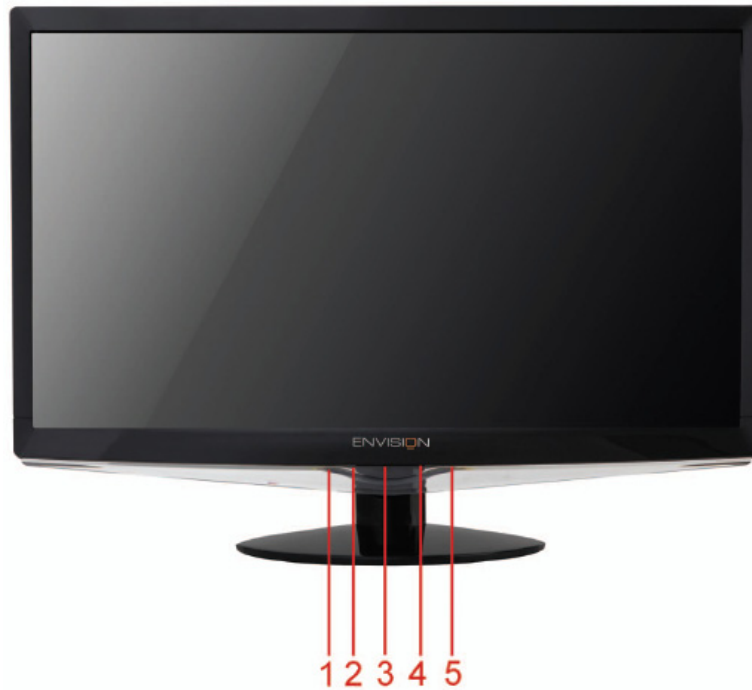
3.1 General Instructions

Press the power button to turn the monitor on or off. The other control knobs are located at front panel of the monitor (See Figure). By changing these settings, the picture can be adjusted to your personal preferences.

* The power cord should be connected.

* Press the power button to turn on the monitor. The power indicator will light up.

3.2 Control Buttons












| | |
|---|---------------------|
| 1 | Auto /Source / Exit |
| 2 | Eco mode (DCR) / - |
| 3 | 4:3 or wide / + |
| 4 | Menu / Enter |
| 5 | Power |





3.3 OSD Menu







- Press the MENU-button to activate the OSD window.
- Press+ or - to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press or again to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- Press+ or - to change the settings of the selected function. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.
- OSD Lock Function: To lock the OSD, press and hold the Menu button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the Menu button while the monitor is off and then press power button to turn the monitor on.
- Eco Mode and DCR hot key: Press the Eco key continuously to select the Eco mode of brightness and DCR on when there is no OSD (Eco mode hot key may not be available in all models).
- 4:3 or wide image ratio hot key: When there is no OSD, press + continuously to change 4:3 or wide image ratio. (If the product screen size is 4:3 or input signal resolution is wide format, the hot key is disable to adjust).
- Source hot key: When the OSD is closed, press Auto/Source button will be Source hot key function (Only for the models with dual or more inputs). Press Source button continuously to select the input source showed in the message bar, press Menu/Enter button to change to the source selected.
- Auto configure hot key: When the OSD is closed, press Auto button for 2 second .will be auto configure hot key function.

Function Control Illustration

| | Luminance | Adjust Range | Description | |
|---|------------|--------------|---|--------------------------------|
|  | Brightness | 0-100 | Backlight Adjustment | |
| | Contrast | 0-100 | Contrast from Digital-register | |
| | Eco mode | Standard |  | Standard Mode |
| | | Text |  | Text Mode |
| | | Internet |  | Internet Mode |
| | | Game |  | Game Mode |
| | | Movie |  | Movie Mode |
| | | Sports |  | Sports Mode |
| | Gamma | Gamma1 | | Adjust to Gamma1 |
| | | Gamma2 | | Adjust to Gamma 2 |
| | | Gamma3 | | Adjust to Gamma 3 |
| | DCR | Off |  | Disable dynamic contrast ratio |
| | | On |  | Enable dynamic contrast ratio |

| | | | | |
|---|----------------------|-----------|--|--------------------------------|
|  | Image Setup | | | |
| | Clock | 0-100 | Adjust picture Clock to reduce Vertical-Line noise | |
| | Phase | 0-100 | Adjust Picture Phase to reduce Horizontal-Line noise | |
| | H. Position | 0-100 | Adjust the horizontal position of the picture | |
| | V. Position | 0-100 | Adjust the vertical position of the picture | |
|  | Color Temp. | | | |
| | Warm | 6500K | Recall Warm Color Temperature from EEPROM | |
| | Normal | 7300K | Recall Normal Color Temperature from EEPROM | |
| | Cool | 9300K | Recall Cool Color Temperature from EEPROM | |
| | sRGB | | Recall sRGB Color Temperature from EEPROM | |
| | User | Red | | Red Gain from Digital-register |
| | | Green | | Green Gain Digital-register. |
| Blue | | | Blue Gain from Digital-register | |
|  | Color Boost | | | |
| | Full Enhance | on or off | Disable or Enable Full Enhance Mode | |
| | Nature Skin | on or off | Disable or Enable Nature Skin Mode | |
| | Green Field | on or off | Disable or Enable Green Field Mode | |
| | Sky-blue | on or off | Disable or Enable Sky-blue Mode | |
| | AutoDetect | on or off | Disable or Enable AutoDetect Mode | |
| | Demo | on or off | Disable or Enable Demo | |
|  | Picture Boost | | | |
| | Frame Size | 14-100 | Adjust Frame Size | |
| | Brightness | 0-100 | Adjust Frame Brightness | |
| | Contrast | 0-100 | Adjust Frame Contrast | |
| | H. position | 0-100 | Adjust Frame horizontal Position | |
| | V. position | 0-100 | Adjust Frame vertical Position | |
| | Bright Frame | on or off | Disable or Enable Bright Frame | |

| | | | |
|---|------------------|---|---------------------------------------|
|  | OSD Setup | | |
| | H. Position | 0-100 | Adjust the horizontal position of OSD |
| | V. Position | 0-100 | Adjust the vertical position of OSD |
| | Timeout | 5-120 | Adjust the OSD Timeout |
| | Transparence | 0-100 | Adjust the transparence of OSD |
| | Language | | Select the OSD language |
|  | Extra | | |
| | Input Select | Auto | Select to Auto Detect input signal |
| | | D-SUB | Select Analog Signal Source as Input |
| | | DVI | Select Digital Signal Source as Input |
| | Auto Config | yes or no | Auto adjust the picture to default |
| | Image Ratio | wide or 4:3 | Select wide or 4:3 format for display |
| | DDC-CI | yes or no | Turn ON/OFF DDC-CI Support |
| | Off Timer | 0-24 hrs | Select DC off time |
| Information | | Show the information of the main image and sub-image source | |
|  | Reset | | |
| | Reset | yes or no | Reset the menu to default |
|  | Exit | | |
| | Exit | | Exit the main OSD |

Notes:

- 1)If the product has only one signal input, the item of "Input Select" is disable to adjust.
- 2)If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disable to adjust.
- 3)One of DCR, Color Boost, and Picture Boost functions is active, the other two function is turned off accordingly.

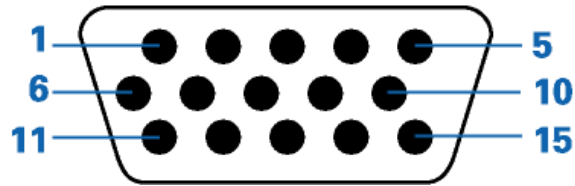
LED Indicators

| Status | LED Color |
|-----------------|-----------|
| Full Power Mode | Blue |
| Active-off Mode | Orange |

4. Input/Output Specification

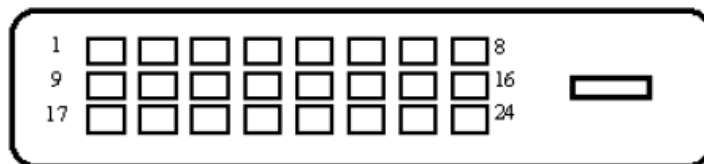
4.1 Input Signal Connector

Analog connector



| Pin Number | 15-Pin Side of the Signal Cable |
|------------|---------------------------------|
| 1 | Video-Red |
| 2 | Video-Green |
| 3 | Video-Blue |
| 4 | Ground |
| 5 | Detect Cable |
| 6 | GND-R |
| 7 | GND-G |
| 8 | GND-B |
| 9 | +5V |
| 10 | Ground |
| 11 | Ground |
| 12 | DDC-Serial data |
| 13 | H-sync |
| 14 | V-sync |
| 15 | DDC-Serial clock |

DVI connector



| Pin No. | Signal Name | Pin No. | Signal Name | Pin | Signal Name |
|---------|----------------------|---------|----------------------|-----|----------------------|
| 1 | TMDS Data 2- | 9 | TMDS Data 1- | 17 | TMDS Data 0- |
| 2 | TMDS Data 2+ | 10 | TMDS Data 1+ | 18 | TMDS Data 0+ |
| 3 | TMDS Data 2/4 Shield | 11 | TMDS Data 1/3 Shield | 19 | TMDS Data 0/5 Shield |
| 4 | TMDS Data 4- | 12 | TMDS Data 3- | 20 | TMDS Data 5- |
| 5 | TMDS Data 4+ | 13 | TMDS Data 3+ | 21 | TMDS Data 5+ |
| 6 | DDC Clock | 14 | +5V Power | 22 | TMDS Clock Shield |
| 7 | DDC Data | 15 | Ground(for+5V) | 23 | TMDS Clock + |
| 8 | N.C. | 16 | Hot Plug Detect | 24 | TMDS Clock - |

4.2 Factory Preset Display Modes

| Standard | Resolution | H. Frequency (kHz) | V. Frequency (kHz) |
|---------------|----------------|--------------------|--------------------|
| VGA | 640x480@60Hz | 31.469 | 59.94 |
| | 640x480@72Hz | 37.861 | 72.809 |
| | 640x480@75Hz | 37.5 | 75 |
| SVGA | 800x600@56Hz | 35.156 | 56.25 |
| | 800x600@60Hz | 37.879 | 60.317 |
| | 800x600@72Hz | 48.077 | 72.188 |
| | 800x600@75Hz | 46.875 | 75 |
| XGA | 1024x768@60Hz | 48.363 | 60.004 |
| | 1024x768@70Hz | 56.476 | 70.069 |
| | 1024x768@72Hz | 57.669 | 71.996 |
| | 1024x768@75Hz | 60.023 | 75.029 |
| SXGA | 1280x1024@60Hz | 63.981 | 60.02 |
| | 1280x1024@70Hz | 74.882 | 69.853 |
| | 1280x1024@72Hz | 63.981 | 60.02 |
| | 1280x1024@75Hz | 79.976 | 75.025 |
| WXGA WSXGA | 1440x900@60Hz | 55.935 | 55.887 |
| | 1680x1050@60Hz | 65.29 | 59.95 |
| *** | 1152x864@75HZ | 67.5 | 75 |
| | 1280x960@60HZ | 60 | 60 |
| WUXGA | 1920x1080@60HZ | 67.5 | 59.934 |
| IBM-MODE DOS | 720x400@70Hz | 31.469 | 70.087 |
| MAC MODE VGA | 640x480@67Hz | 35 | 66.667 |
| MAC MODE SVGA | 832x624@75Hz | 49.725 | 74.551 |

4.3 Panel Specification

4.3.1 General Features

The M215H1-L01 model is a 21.5 inch wide TFT-LCD module with LED Backlight Unit and a 30-pin 2ch-LVDS interface. This module supports 1920 x 1080 Full HD (16:9 wide screen) mode and displays up to 16.7 millions colors.

4.3.2 Display Characteristics

| Item | Specification | Unit |
|--------------------------|----------------------------------|-------|
| Diagonal size | 546.86 (21.53") | mm |
| Active Area | 476.64 x 268.11 | mm |
| Bezel Opening Area | 479.8 (H) x 271.3 (V) | mm |
| Driver Element | a-Si TFT active matrix | - |
| Pixel Number | 1920 x R.G.B. x 1080 | pixel |
| Pixel Pitch | 0.248(H) x 0.248(V) | mm |
| Pixel Arrangement | RGB vertical stripe | - |
| Display Colors | 16.7 millions | color |
| Transmissive Mode | Normally White | - |
| Color Gamut | 68% | |
| Surface Treatment | Hard coating (3H), AG (Haze 25%) | - |
| Module Power Consumption | 18.5 | Watt |

4.3.3 Electrical Characteristics

(1) TFT LCD

Ta = 25 ± 2 °C

| Parameter | Symbol | Value | | | Unit | |
|---|-------------------|-----------------|------|------|------|---|
| | | Min. | Typ. | Max. | | |
| Power Supply Voltage | V _{CC} | 4.5 | 5.0 | 5.5 | V | |
| Ripple Voltage | V _{RP} | - | -- | 300 | mV | |
| Power on Rush Current | I _{RUSH} | - | -- | 3 | A | |
| Power Supply Current | White | I _{CC} | - | 0.51 | 0.61 | A |
| | Black | | - | 1.05 | 1.26 | A |
| | Vertical Stripe | | - | 1.06 | 1.26 | A |
| Power consumption(without Backlight Unit) | P _{lcd} | - | 5.3 | 6.3 | W | |
| LVDS differential input voltage | V _{id} | 100 | - | 600 | mV | |
| LVDS common input voltage | V _{ic} | 1 | 1.2 | 1.4 | V | |

(2) Backlight

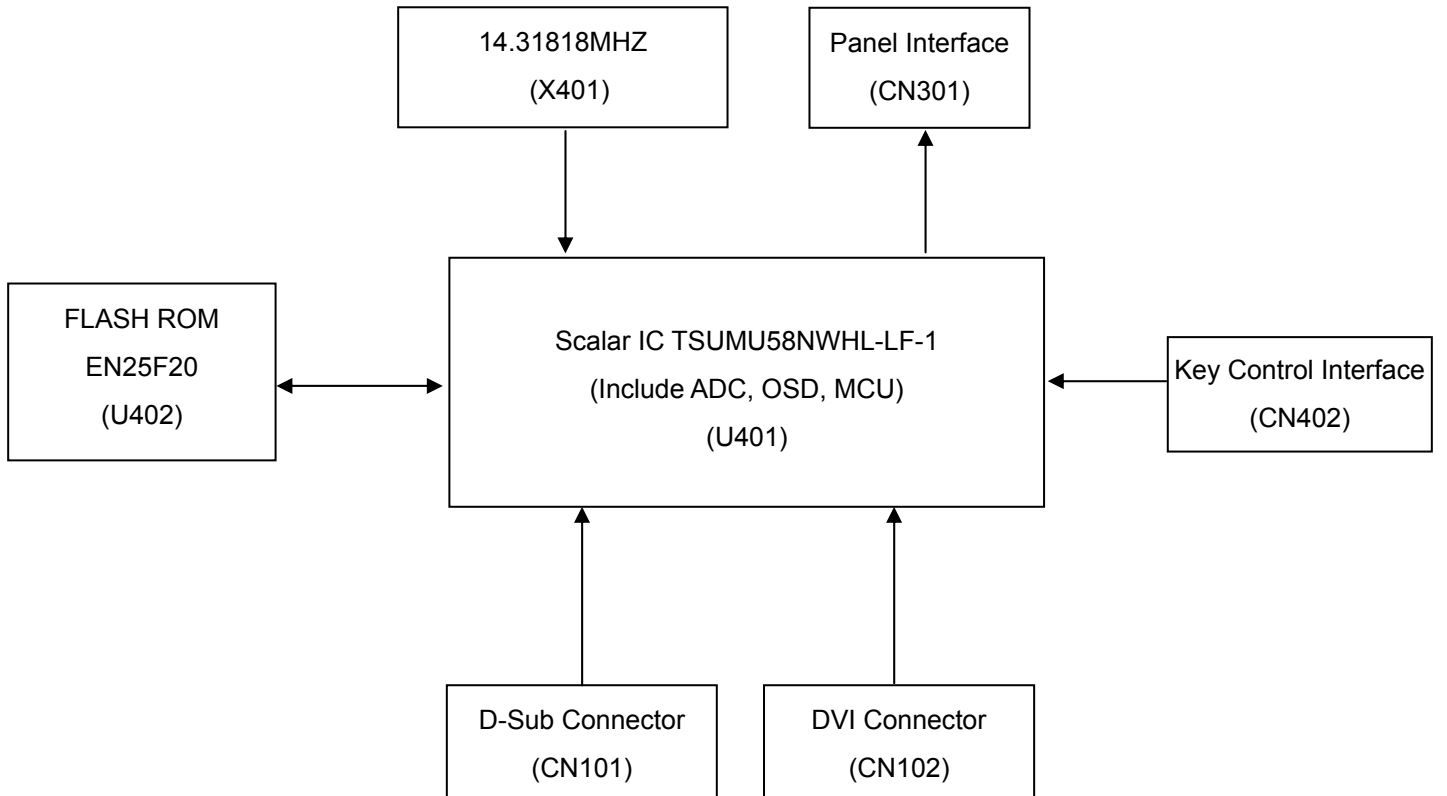
| Parameter | Symbol | Value | | | Unit |
|-------------------------|------------------|-------|------|------|-----------------|
| | | Min | Typ. | Max. | |
| Light Bar Input Voltage | V _{LED} | - | 33 | - | V _{DC} |
| Light Bar Input Current | I _{LED} | 180 | 200 | 220 | mADC |
| Power Consumption | P _{LED} | - | 13.2 | - | W |
| LED Life Time | L _{BL} | 20000 | -- | -- | Hrs |

4.3.4 Optical Characteristics

| Item | | Symbol | Condition | Min. | Typ. | Max. | Unit | |
|---------------------------|------------|----------------|--|---------------|-------|---------------|-------------------|-----|
| Color Chromaticity | Red | R _x | $\theta_x=0^\circ, \theta_y=0^\circ$ CS-1000T | Typ - 0.03 | 0.636 | Typ + 0.03 | | |
| | | R _y | | | 0.348 | | | |
| | Green | G _x | | | 0.327 | | | |
| | | G _y | | | 0.601 | | | |
| | Blue | B _x | | | 0.154 | | | |
| | | B _y | | | 0.059 | | | |
| | White | W _x | | | 0.313 | | | |
| | | W _y | | | 0.329 | | | |
| Center Luminance of White | | L _C | | 200 | 250 | --- | cd/m ² | |
| Contrast Ratio | | CR | | 700 | 1000 | --- | - | |
| Response Time | | T _R | $\theta_x=0^\circ, \theta_y=0^\circ$ | --- | 1.2 | 2.5 | ms | |
| | | T _F | | | 3.8 | 5.5 | ms | |
| White Variation | | ΔW | $\theta_x=0^\circ, \theta_y=0^\circ$ | --- | 1.33 | 1.43 | - | |
| Viewing Angle | Horizontal | θ_{x+} | CR \geq 10 | 75 | 85 | --- | Deg. | |
| | | θ_{x-} | | | 75 | 85 | | --- |
| | Vertical | θ_{y+} | | | 70 | 80 | | --- |
| | | θ_{y-} | | | 70 | 80 | | --- |

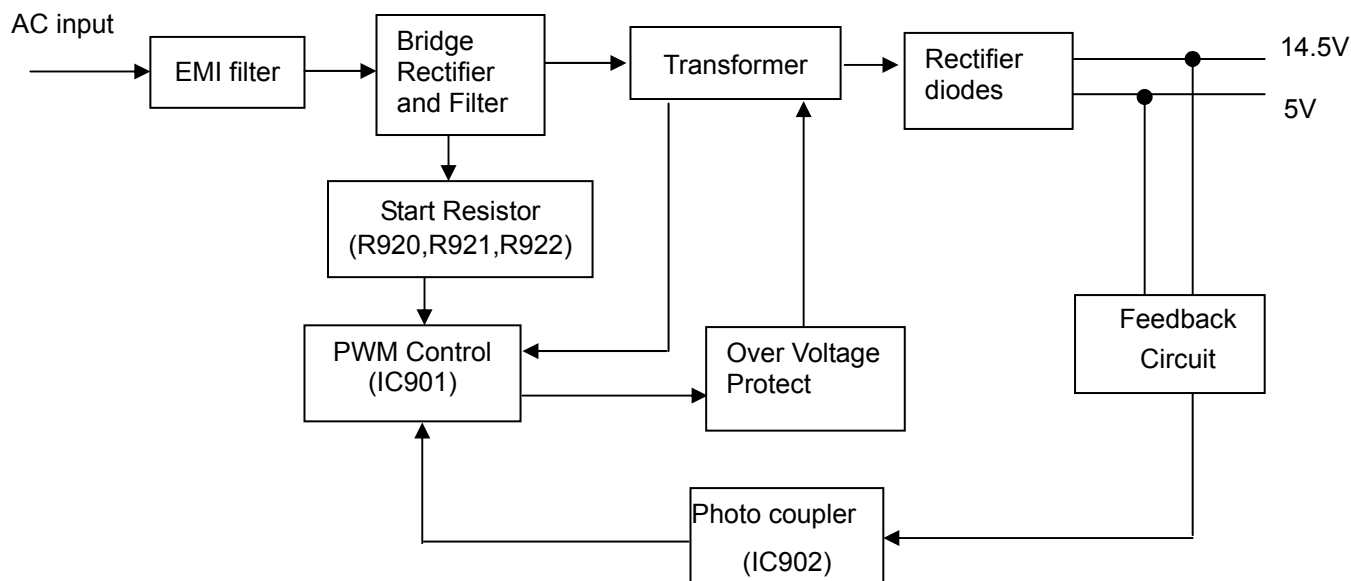
5. Block Diagram

5.1 Main Board



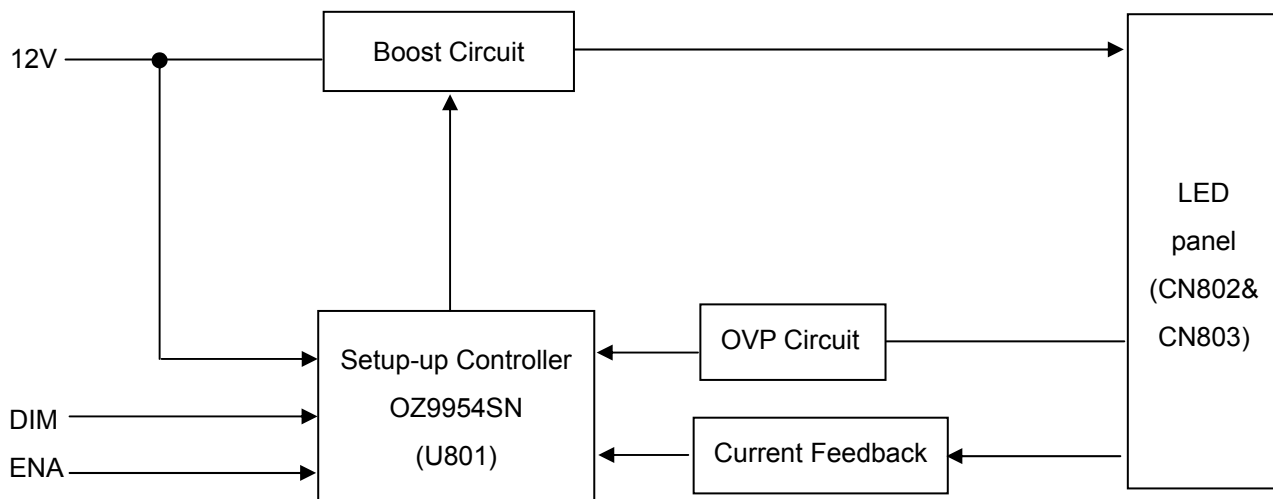
5.2 Power Board

Adapter board

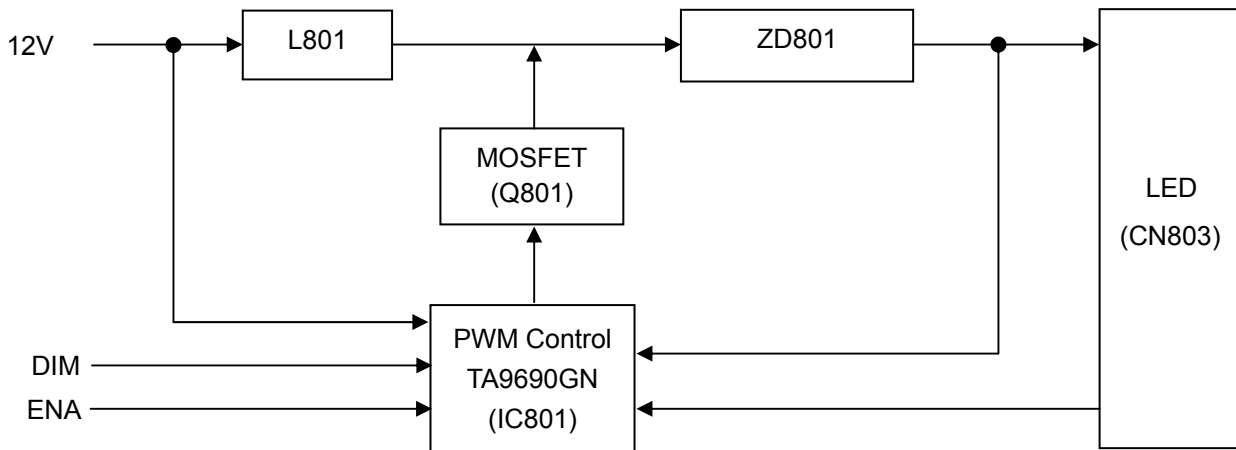


Converter board

715G3649P01000004L



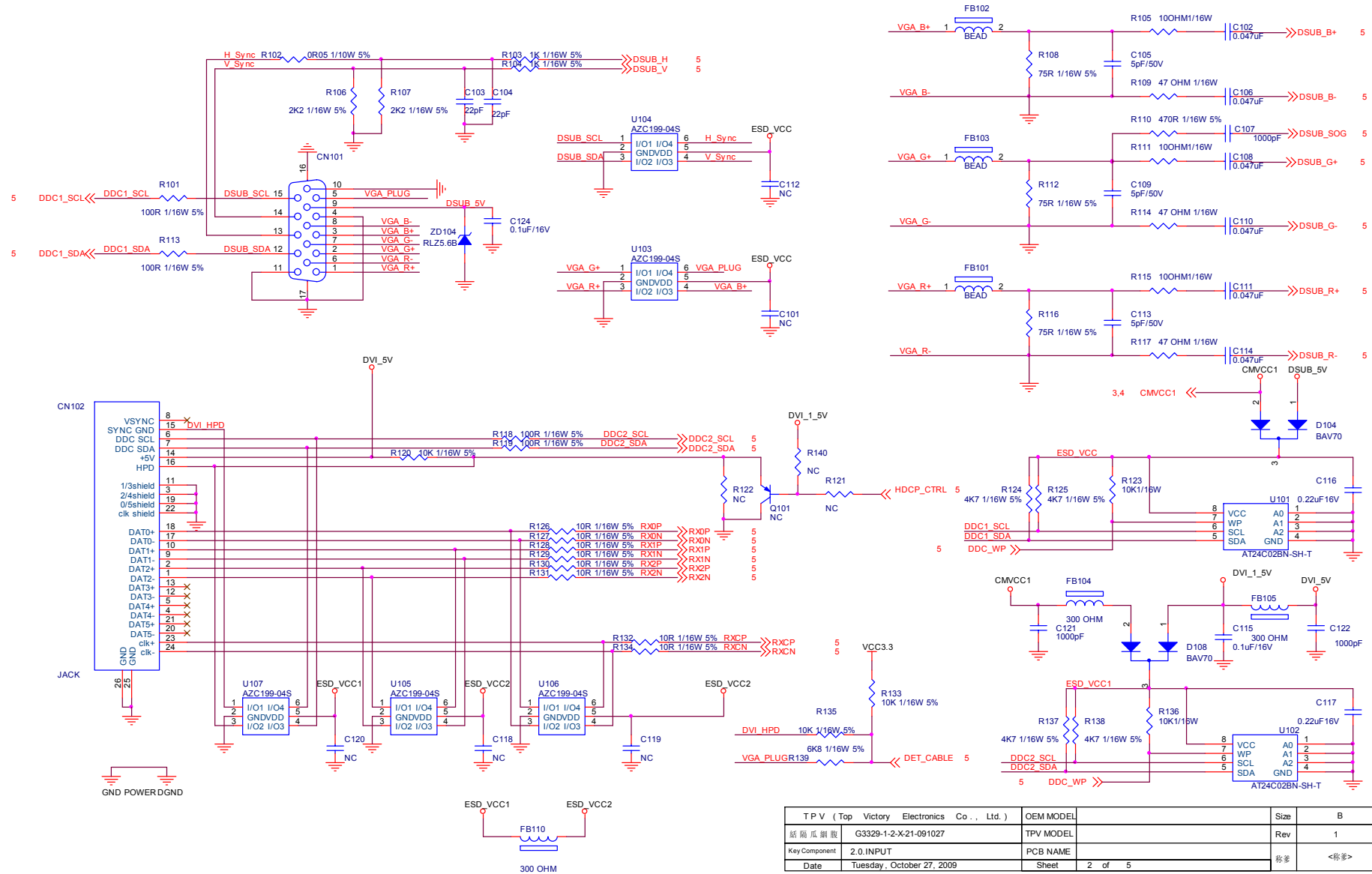
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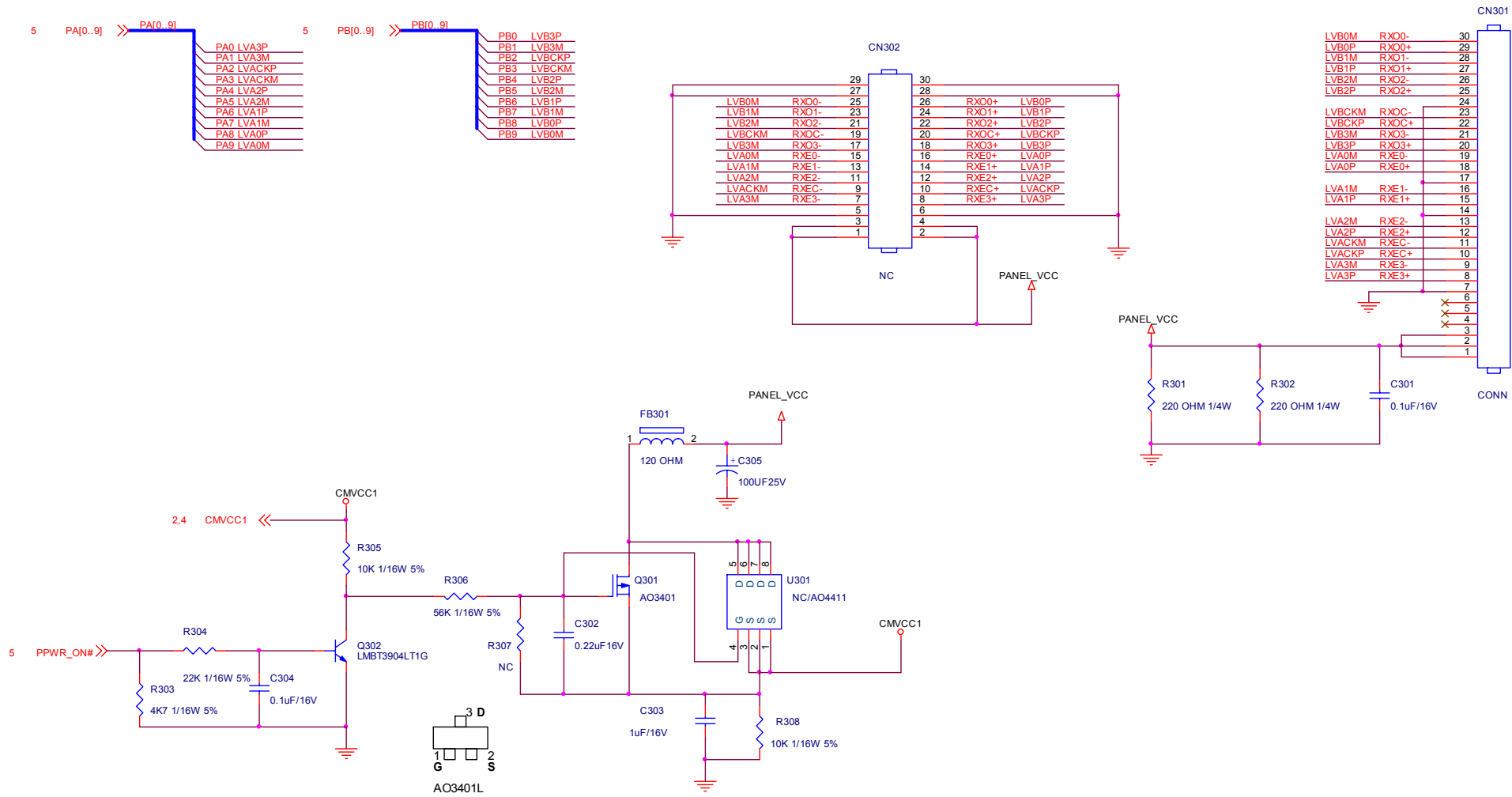
6. Schematic

6.1 Main Board

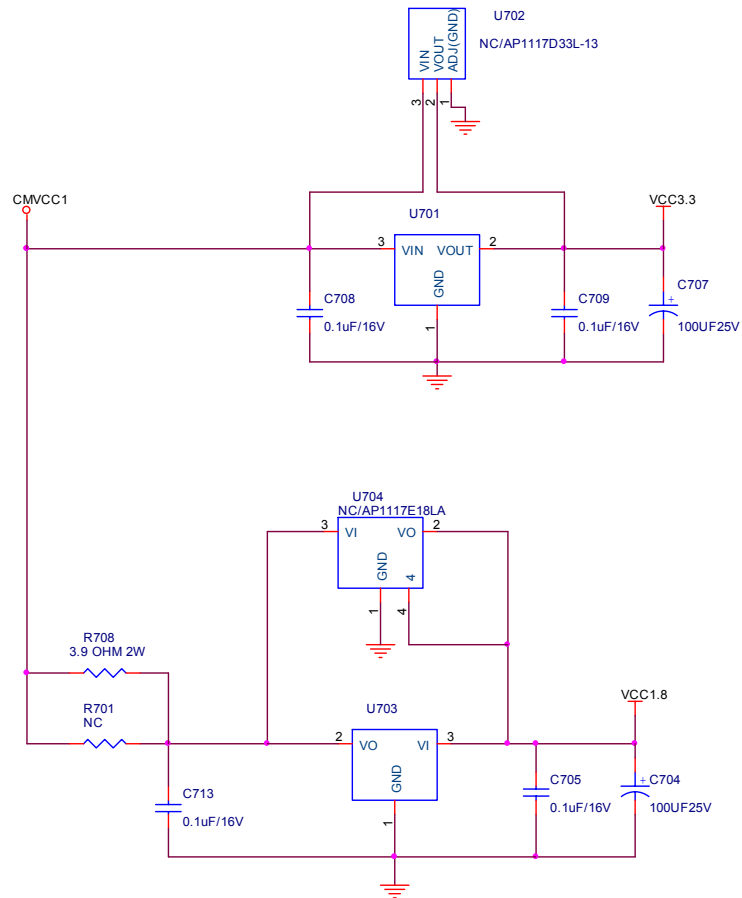
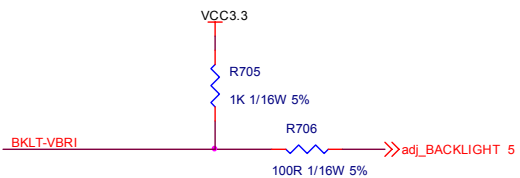
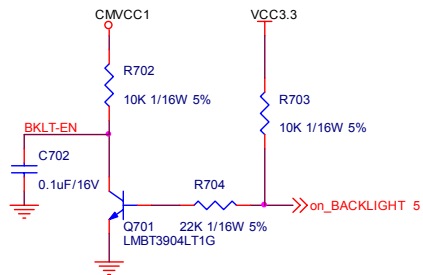
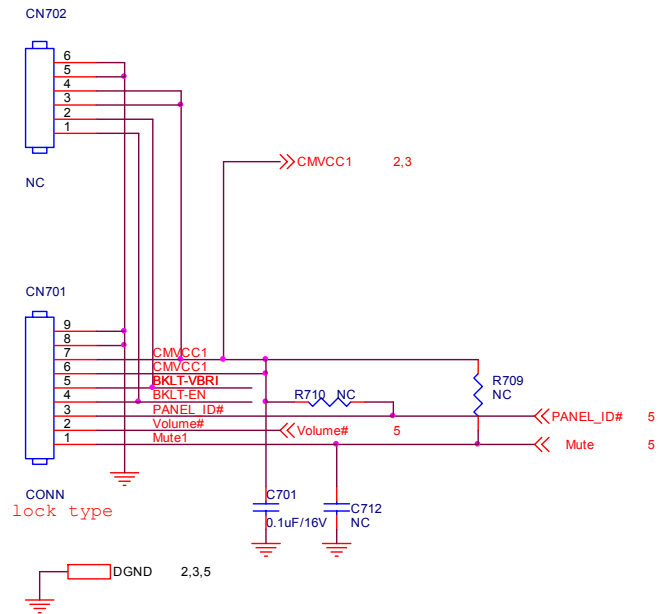
715G3329 1 2



| TP.V (Top Victory Electronics Co., Ltd.) | OEM MODEL | Size | B |
|--|---------------------------|----------|--------|
| 蘇爾瓜爾廠 | G3329-1-2-X21-091027 | Rev | 1 |
| Key Component | 2.0.INPUT | PCB NAME | |
| Date | Tuesday, October 27, 2009 | Sheet | 2 of 5 |



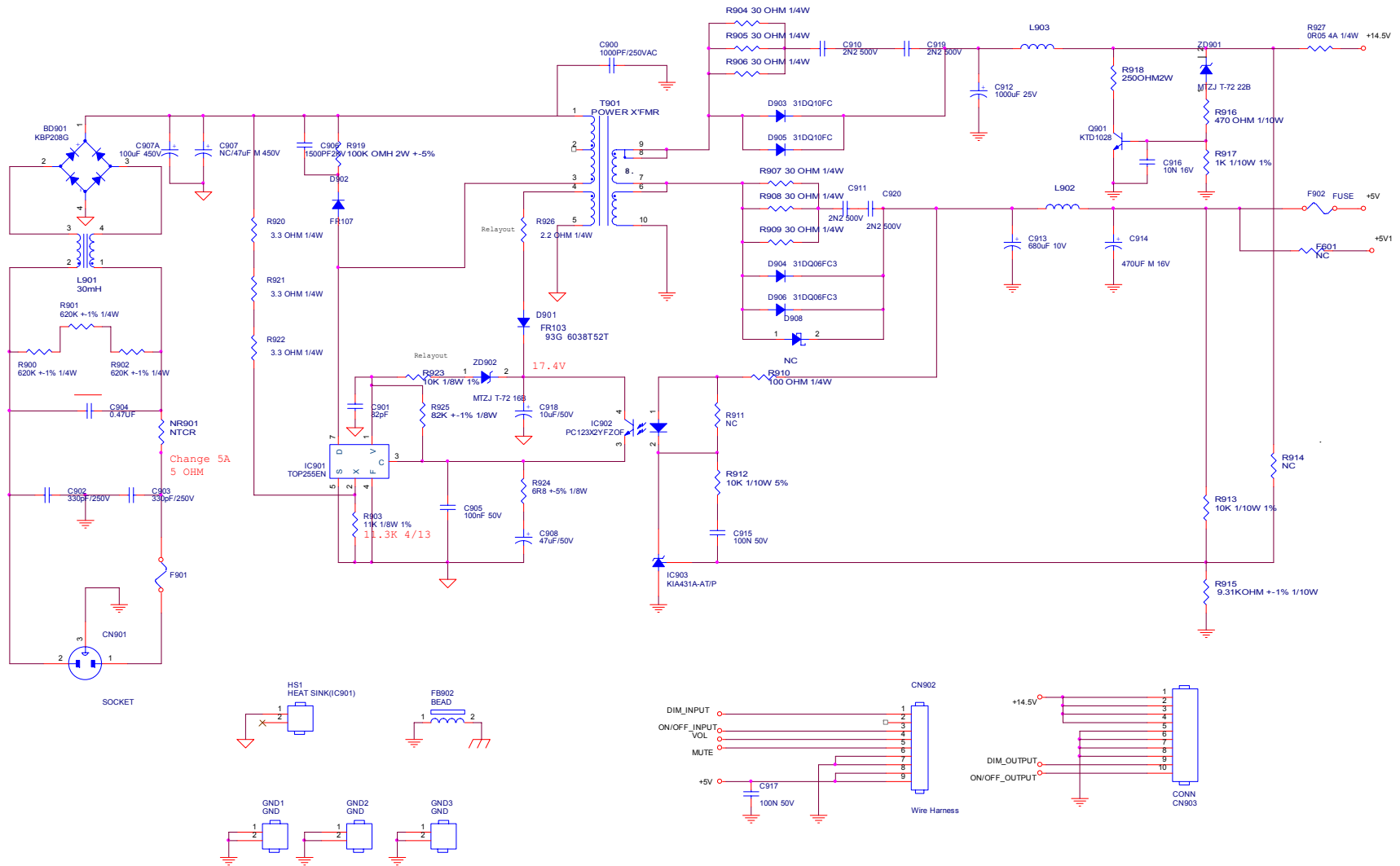
| | | | | |
|---|---------------------------|-----------|--------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL | | Size | B |
| 錫爾瓜網廠 | G3329-1-2-X-21-091027 | TPV MODEL | Rev | 1 |
| Key Component | 3.0_OUTPUT | PCB NAME | 稱爹 | <稱爹> |
| Date | Tuesday, October 27, 2009 | Sheet | 3 of 5 | |



| | | | | |
|---|---------------------------|-----------|--------|---------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL | | Size | B |
| 括隔瓜網膜 | G3329-1-2-X-21-091027 | TPV MODEL | Rev | 1 |
| Key Component | 4.0.POWER | PCB NAME | | |
| Date | Tuesday, October 27, 2009 | Sheet | 4 of 5 | 称爹 <称爹> |

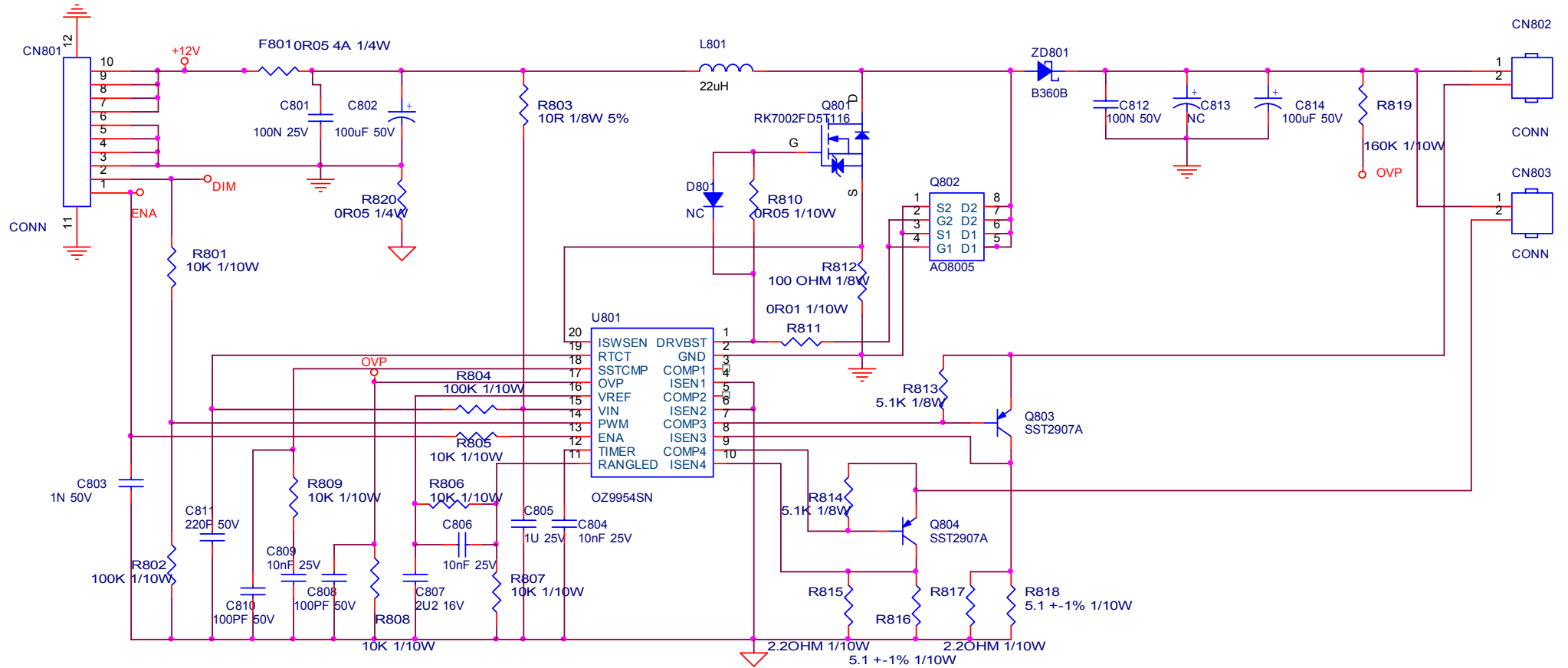
6.2 Adapter Board

715G3189P02LED001S



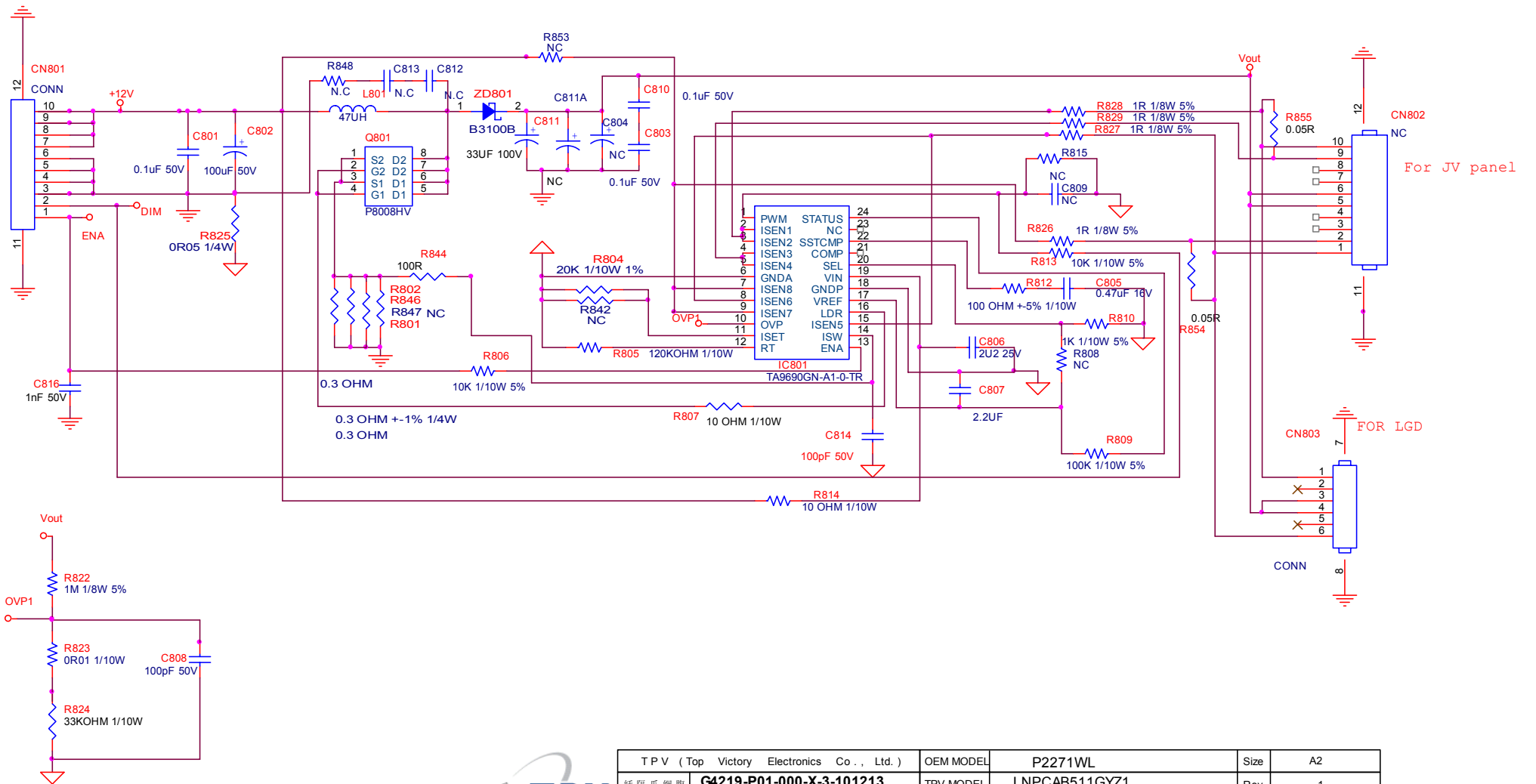
| | | | | |
|---|---------------------------|----------|-----------|---------------|
| T.P.V (Top Victory Electronics Co., Ltd.) | OEM MODEL | | Size | Custom |
| 振尚光电 | G3189-P01-LED-X-6-091112 | | TPV MODEL | |
| Key Component | 02.POWER | PCB NAME | | Rev 1 |
| Date | Friday, December 25, 2009 | Sheet | of | 格 号 ODM MODEL |

6.3 Converter Board 715G3649P01000004L



| | | | |
|---|--------------------------|----------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL | Size | A4 |
| 紙隔瓜網腹 | G3649-P01-000-X-1-100423 | Rev | 1 |
| Key Component | 02.CONVERTER | PCB NAME | |
| Date | Friday, April 23, 2010 | Sheet | of |
| | | 称爹 | ODM MODEL |

715G4219P02000004S



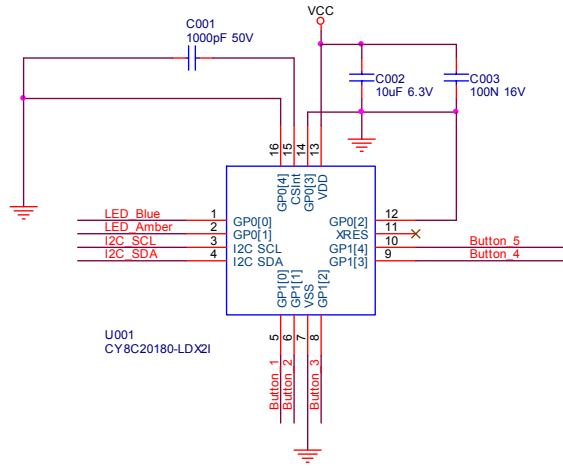
Iout 120mA
VOUT 33K 66V



| | | | | | |
|---|---------------------------|-----------|---------------|-----|-----------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL | P2271WL | Size | A2 | |
| 錫爾瓜樂廠 | G4219-P01-000-X-3-101213 | TPV MODEL | LNPCAB511GYZ1 | Rev | 1 |
| Key Component | CONVERTER | PCB NAME | 715G4219-P01 | 稱號 | ODM MODEL |
| Date | Monday, December 13, 2010 | Sheet | of | | |

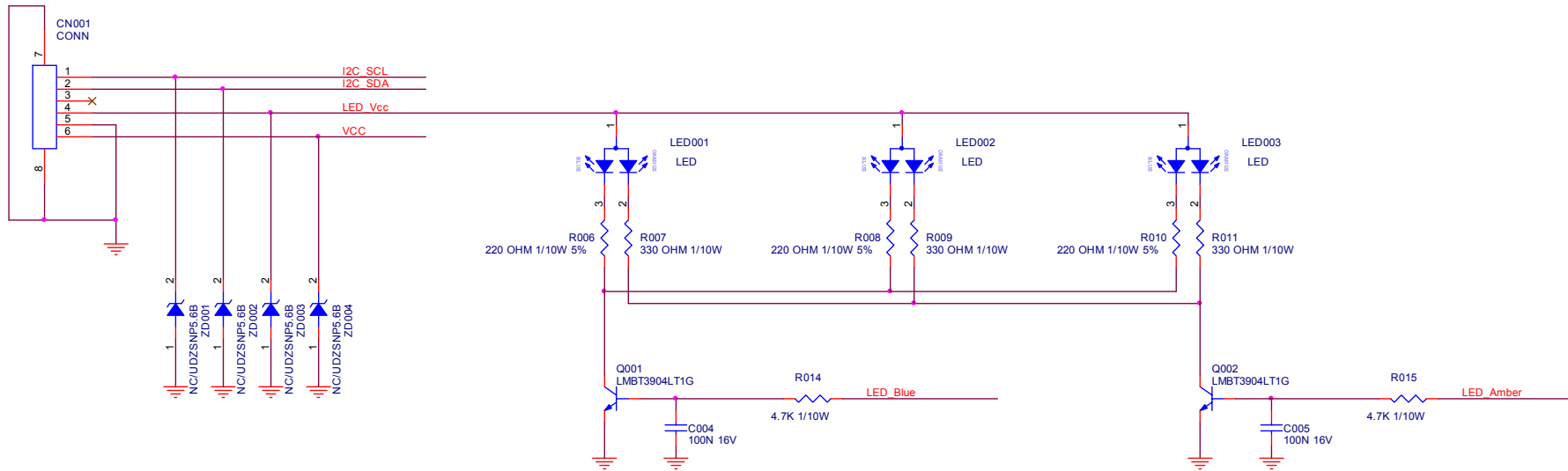
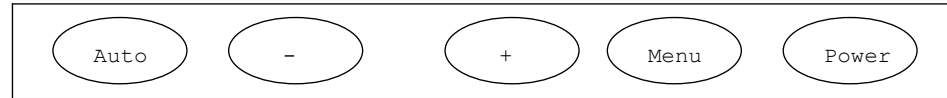
6.4 Key Board

715G3706K0200004L



Buttons

- Button 1 R001 560R 1/10W 5% Menu T01
- Button 2 R002 560R 1/10W 5% - T02
- Button 3 R003 560R 1/10W 5% + T03
- Button 4 R004 560R 1/10W 5% Auto T04
- Button 5 R005 560R 1/10W 5% Power T05

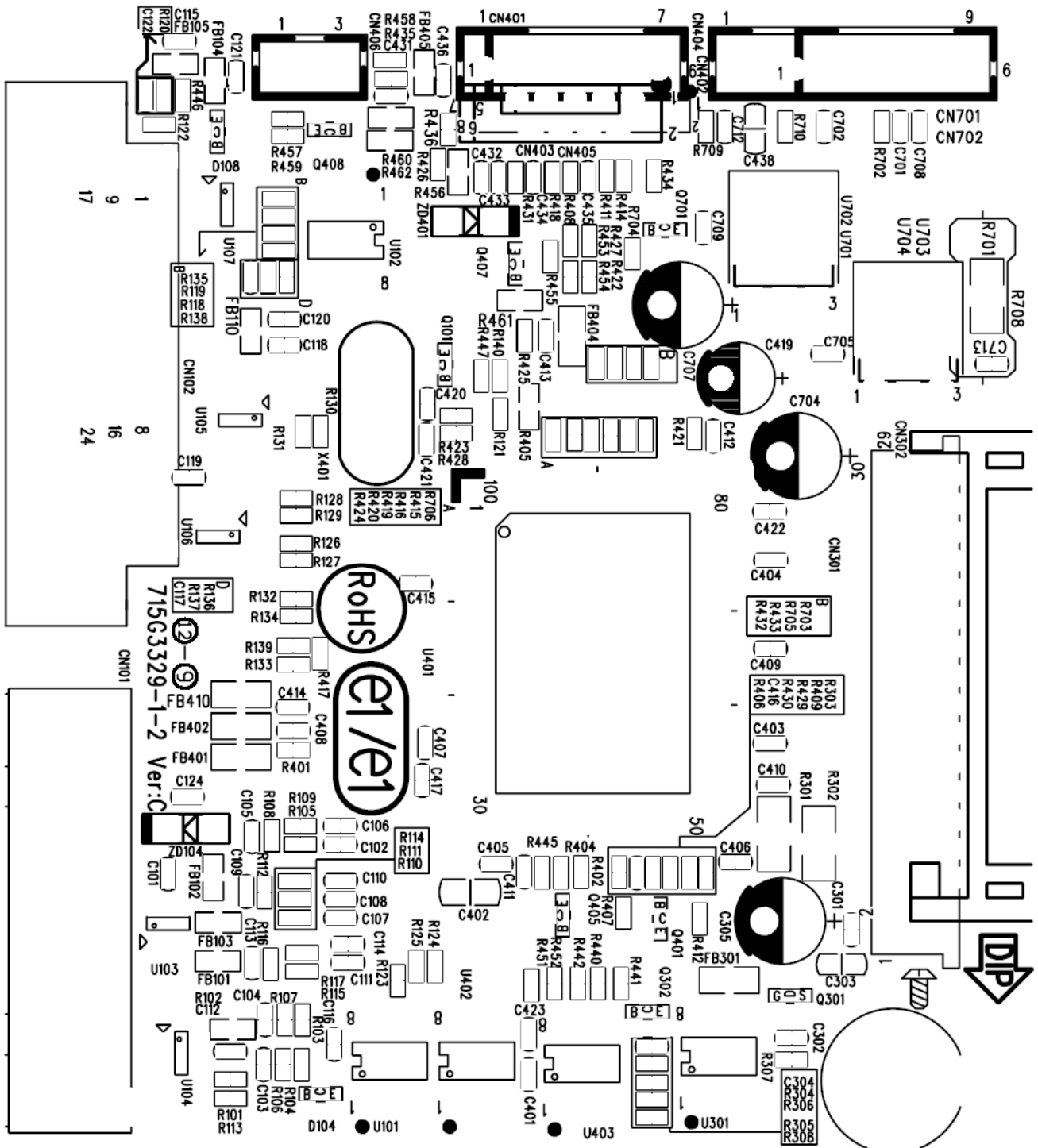


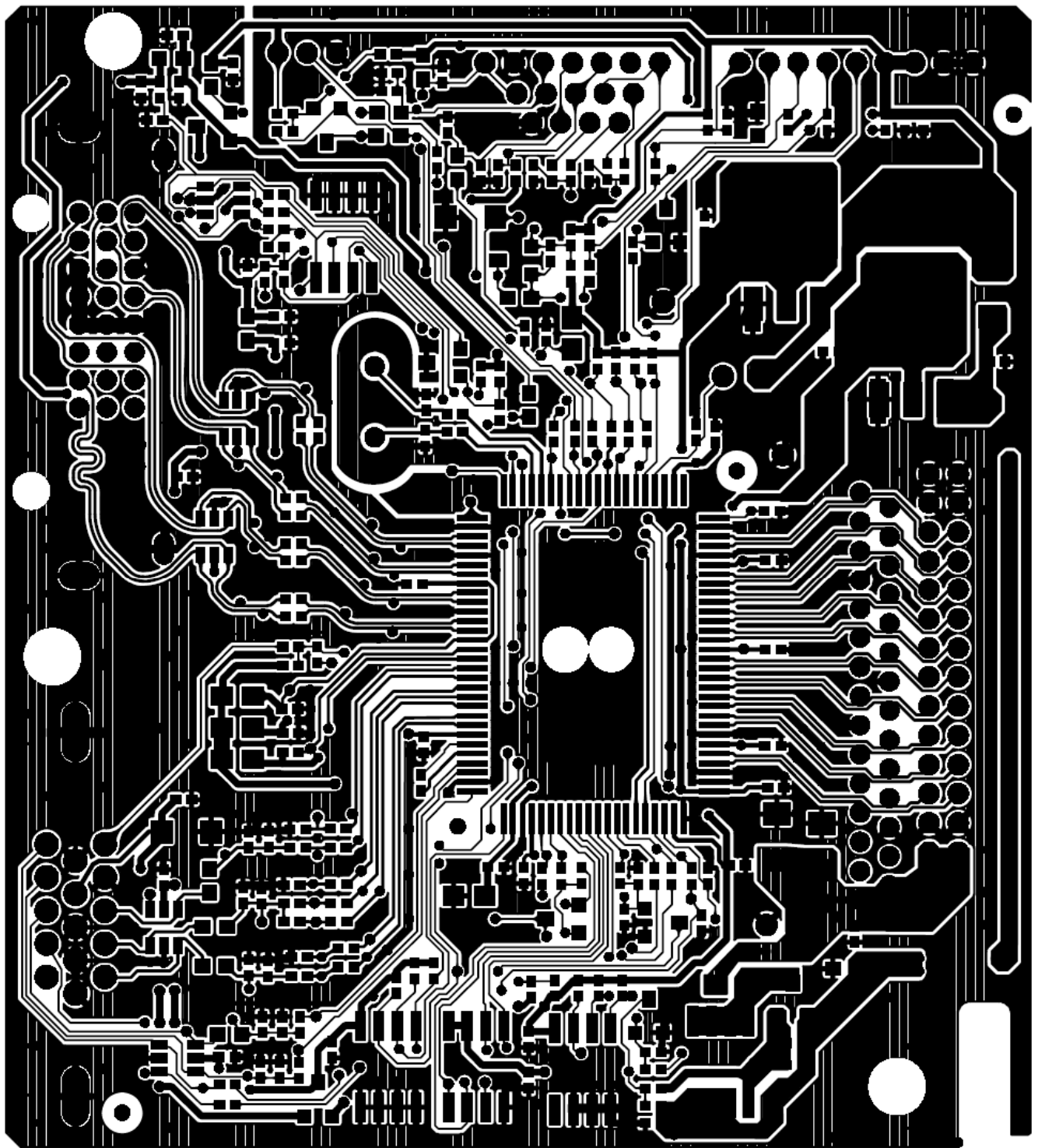
| | | | |
|---|-----------------------------|----------|--------------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL | Size | B |
| 話隔瓜銅膜 | G3706-K0B-000-0040-1-090925 | Rev | A |
| Key Component | 2.0.key | PCB NAME | 715G3706-K0B |
| Date | Friday, December 04, 2009 | Sheet | 2 of 2 |
| | | 称簽 | <称簽> |

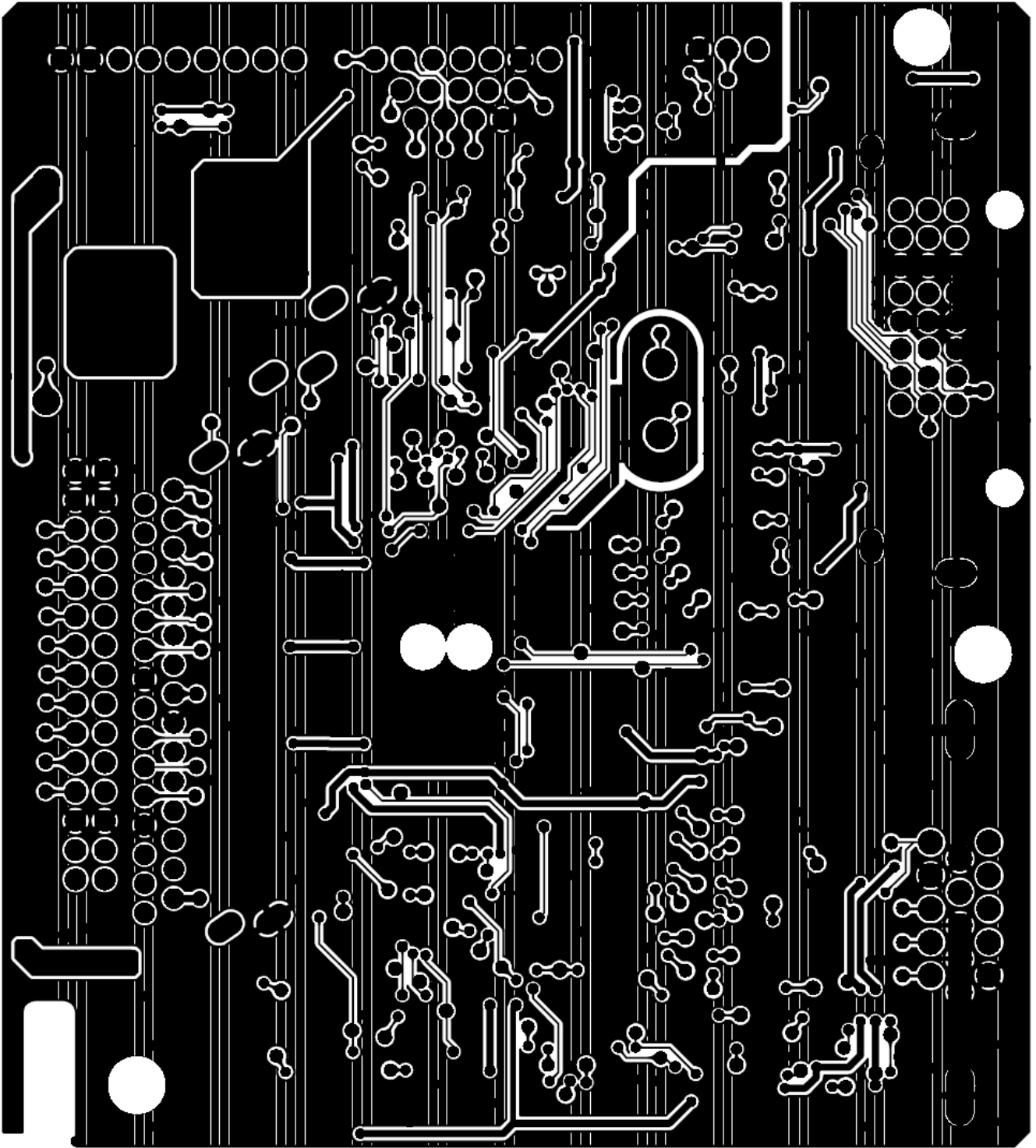
7. PCB Layout

7.1 Main Board

715G3329 1 2



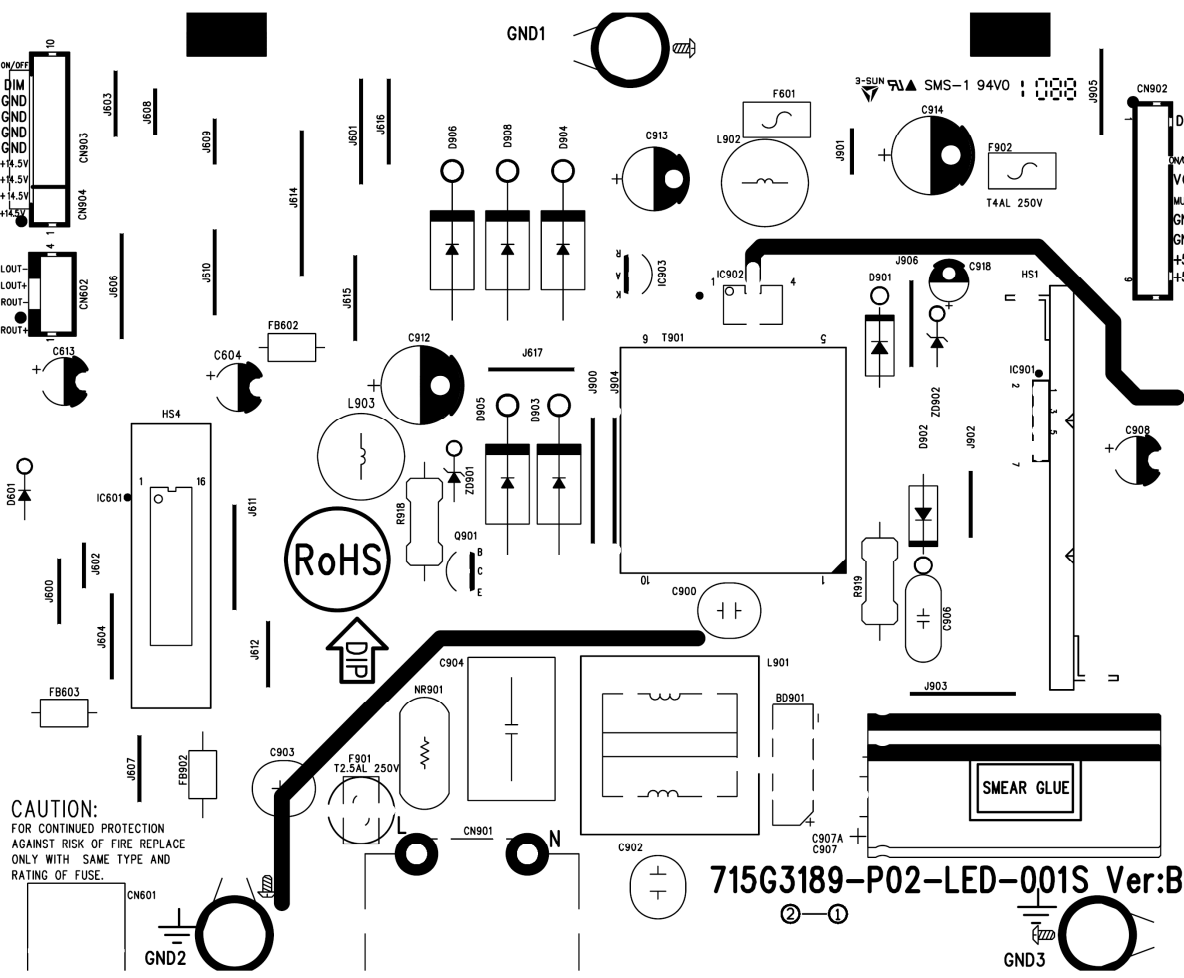




7.2 Adapter Board

715G3189P02LED001S

715G3189-P02-LED-001S Ver:B

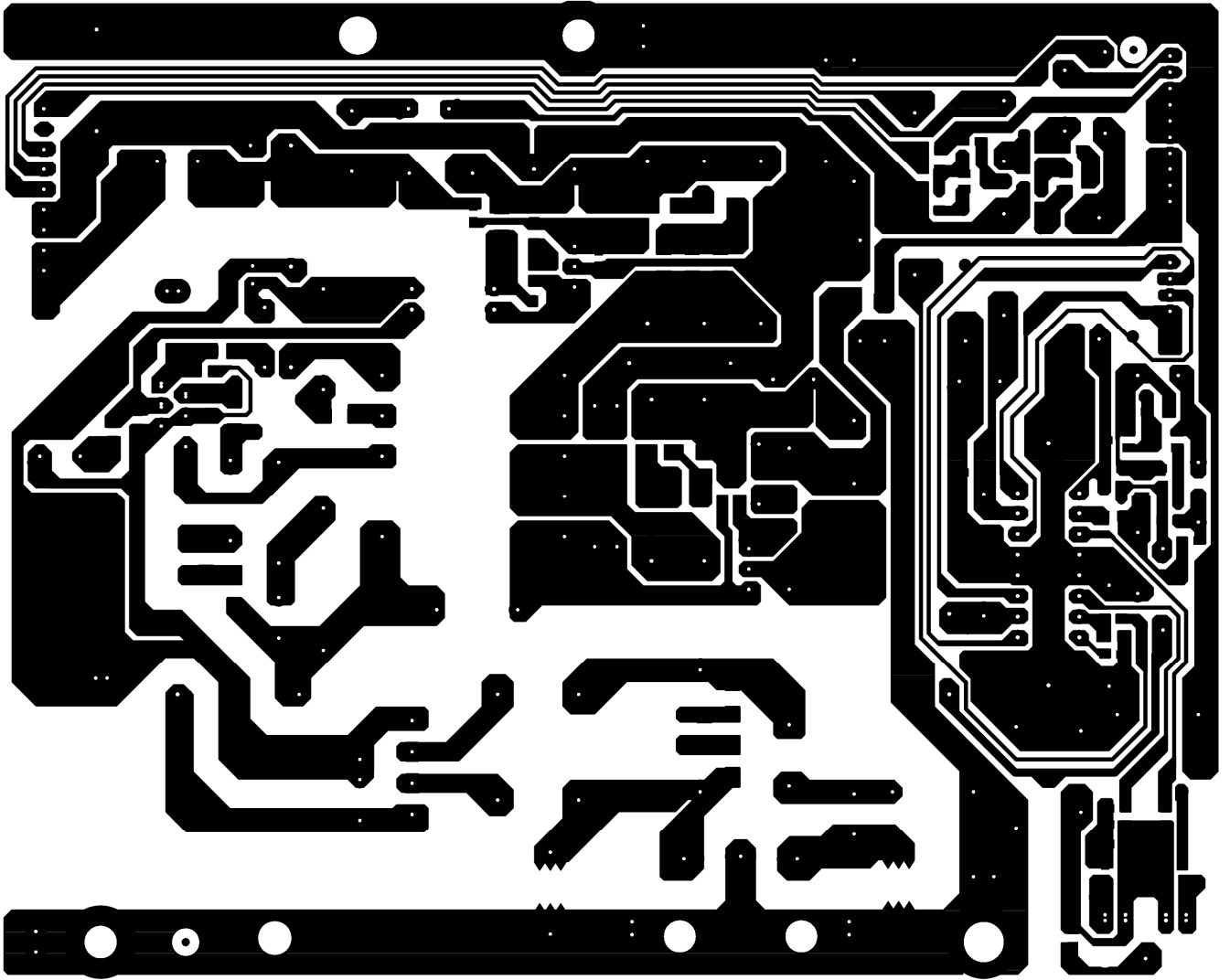


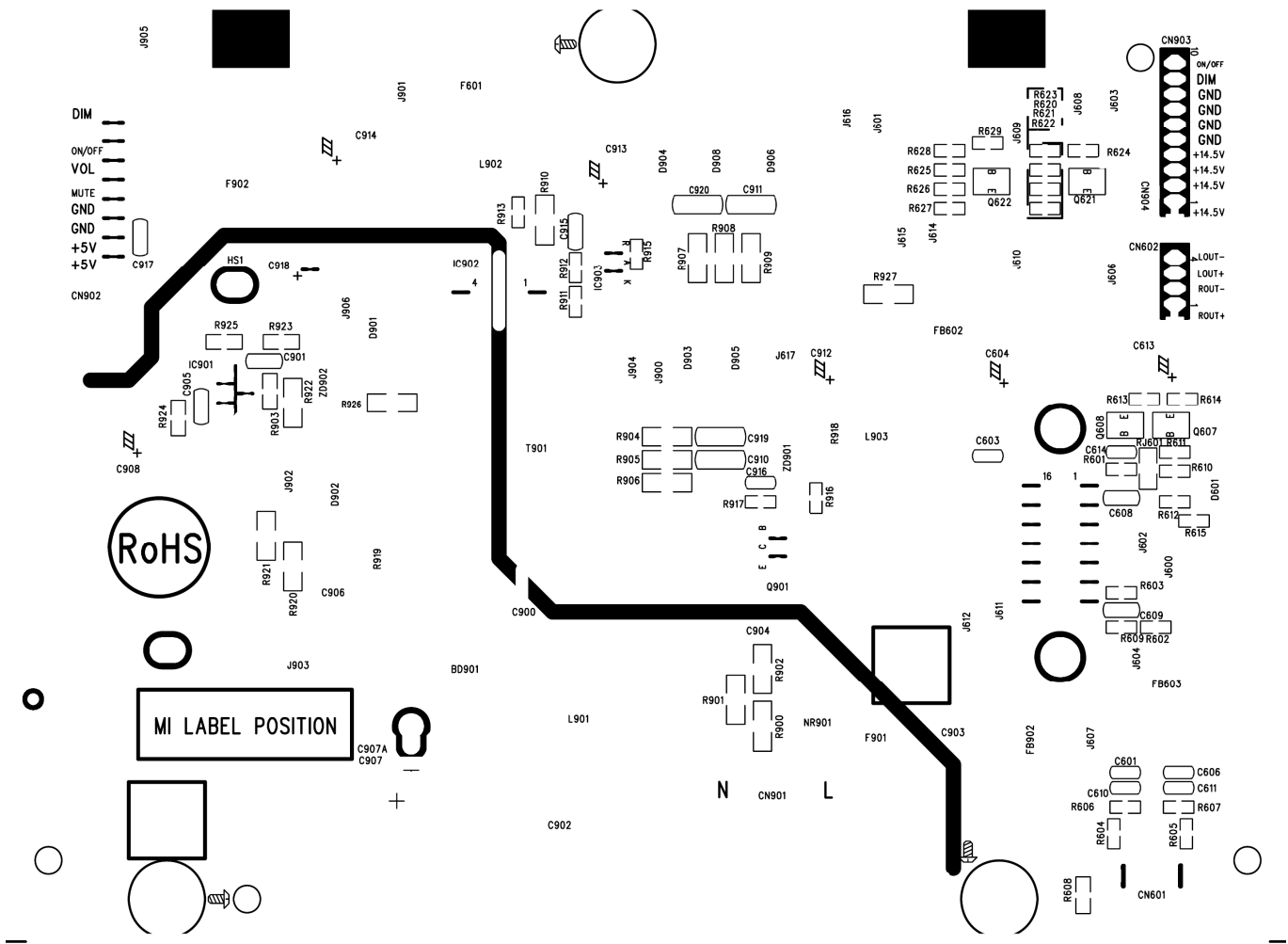
CAUTION:
FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE REPLACE
ONLY WITH SAME TYPE AND
RATING OF FUSE.

715G3189-P02-LED-001S Ver:B

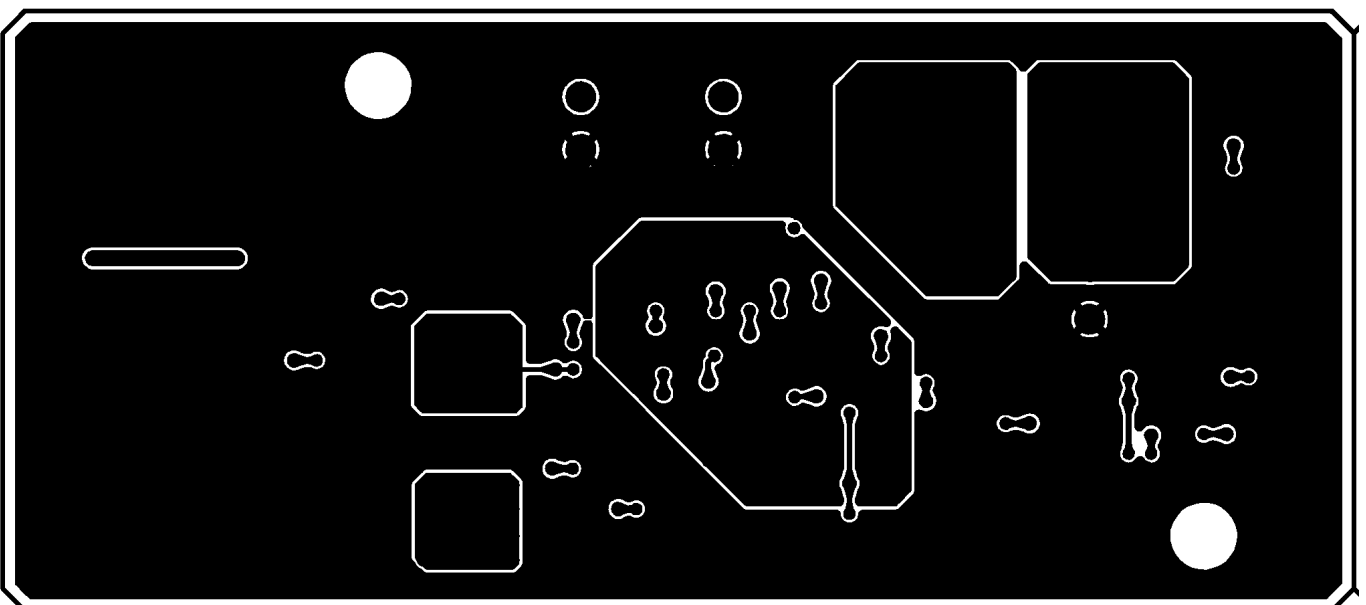
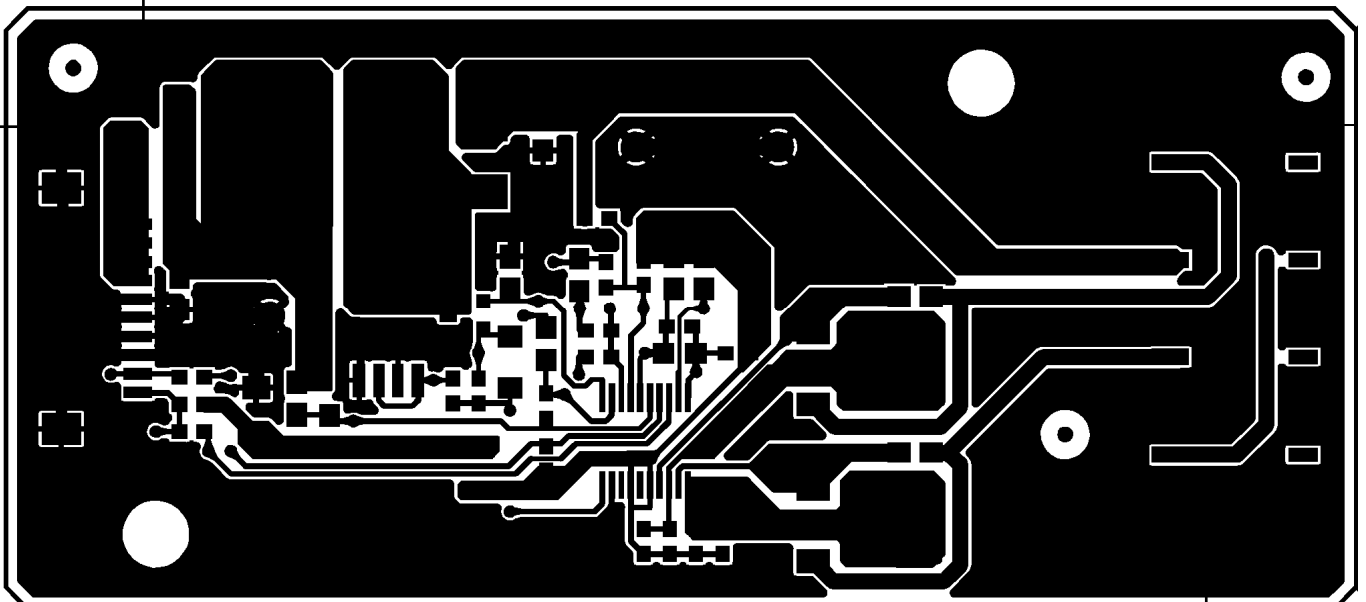
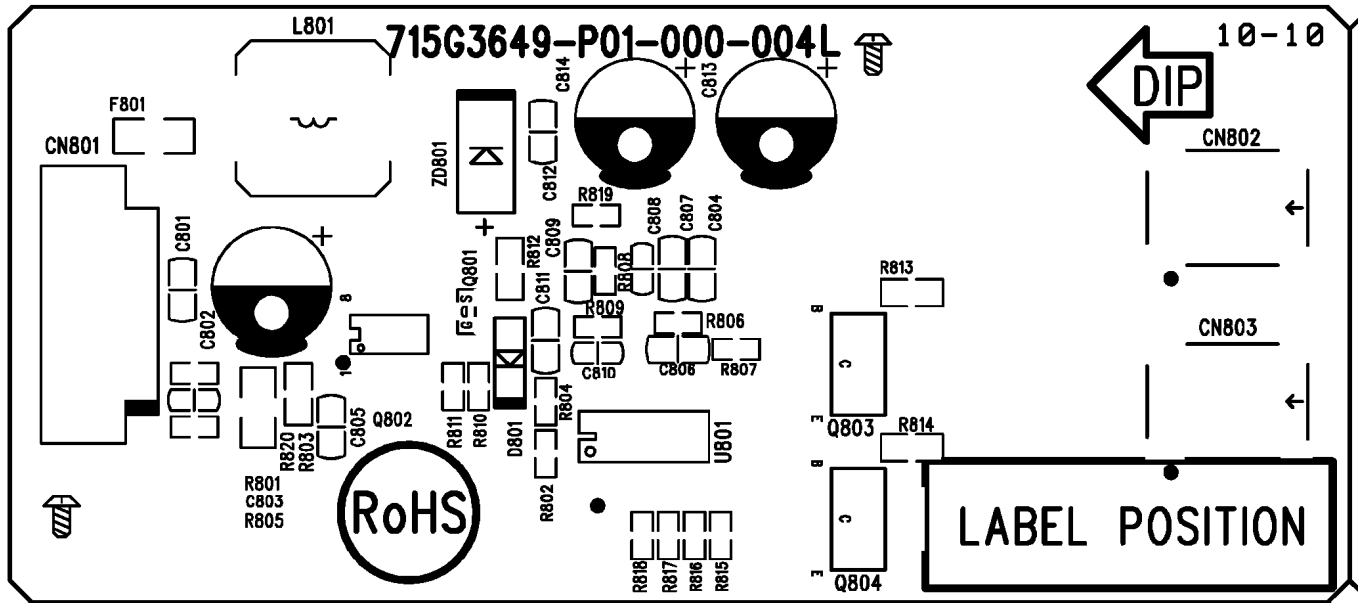
715G3189-P02-LED-001S Ver:B

AI LABEL POSITION

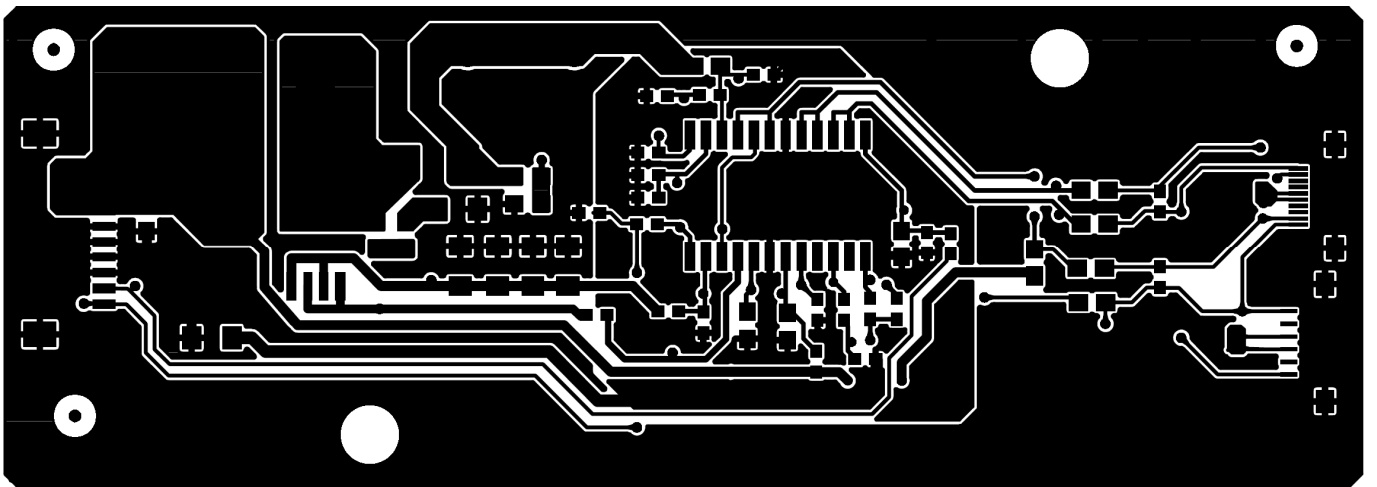
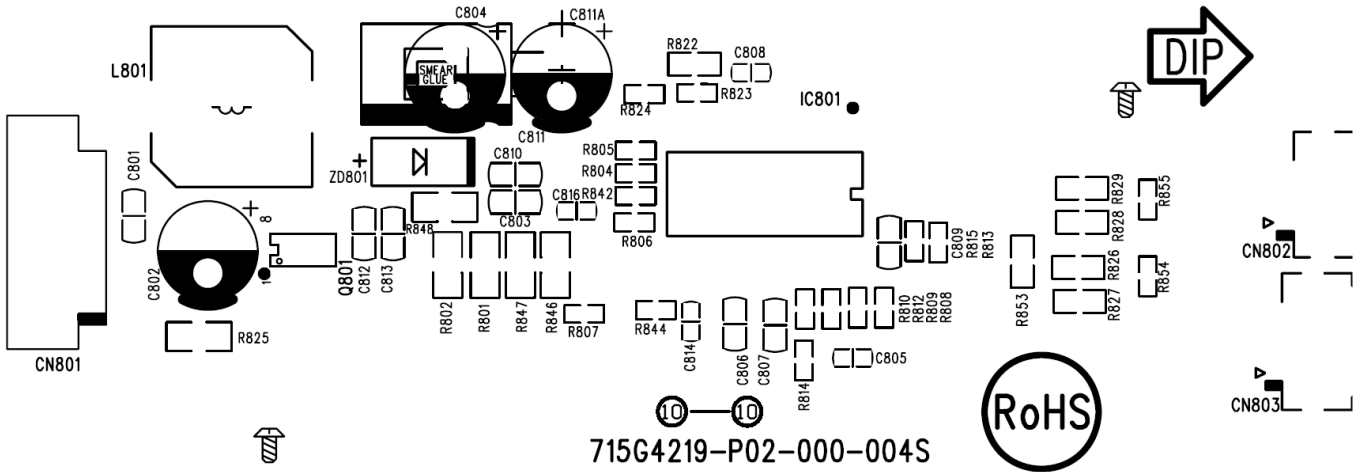




7.3 Converter Board
715G3649P01000004L

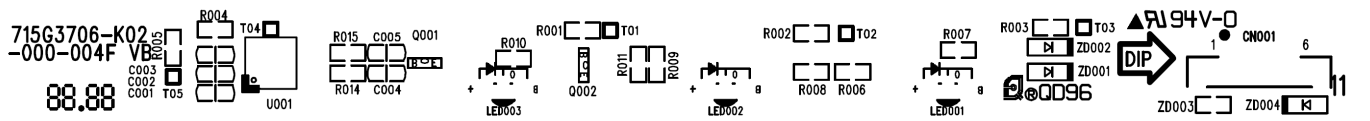


715G4219P02000004S



7.4 Key Board

715G3706K02000004L



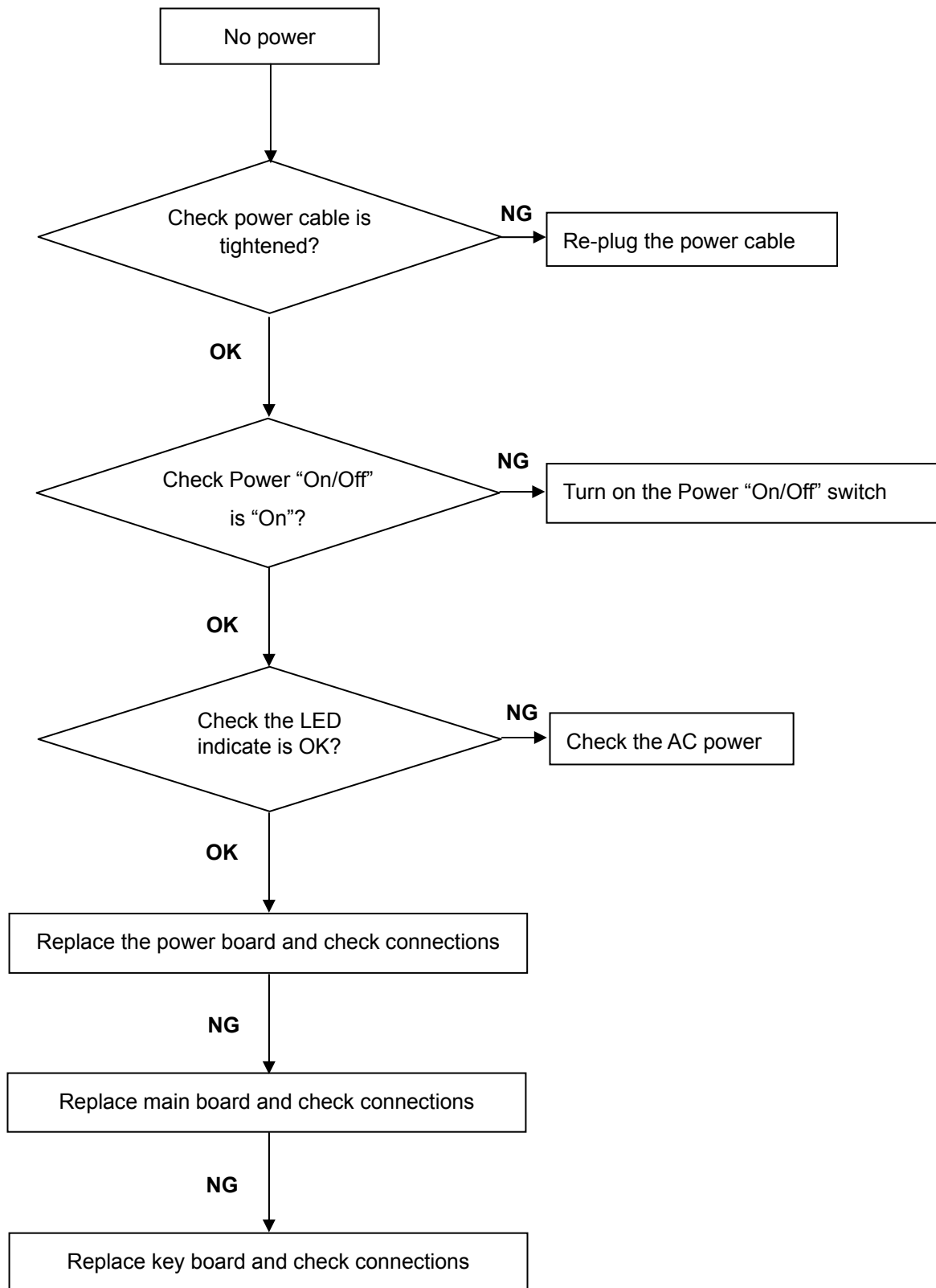
8. Maintainability

8.1 Equipments and Tools Requirement

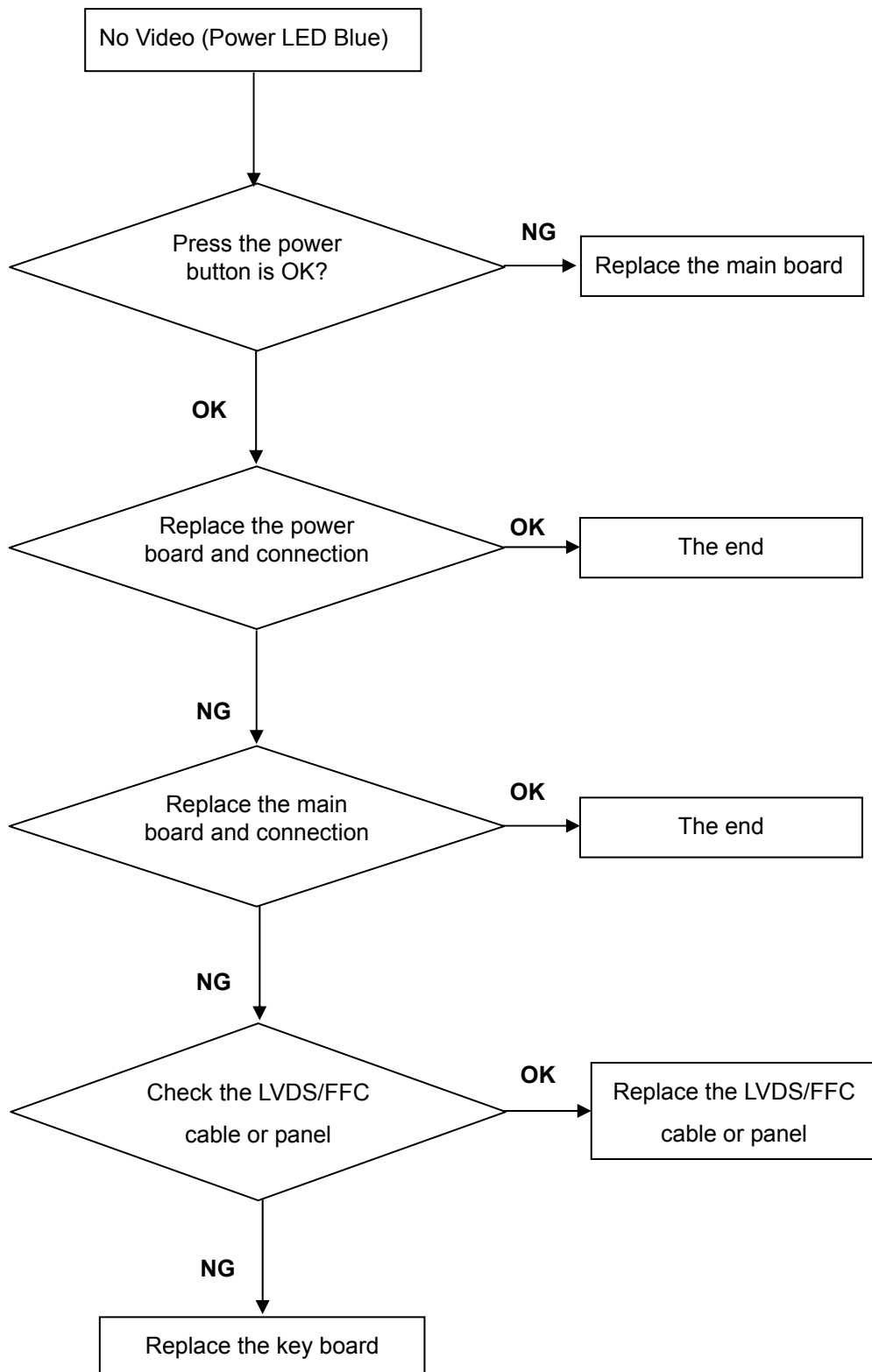
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

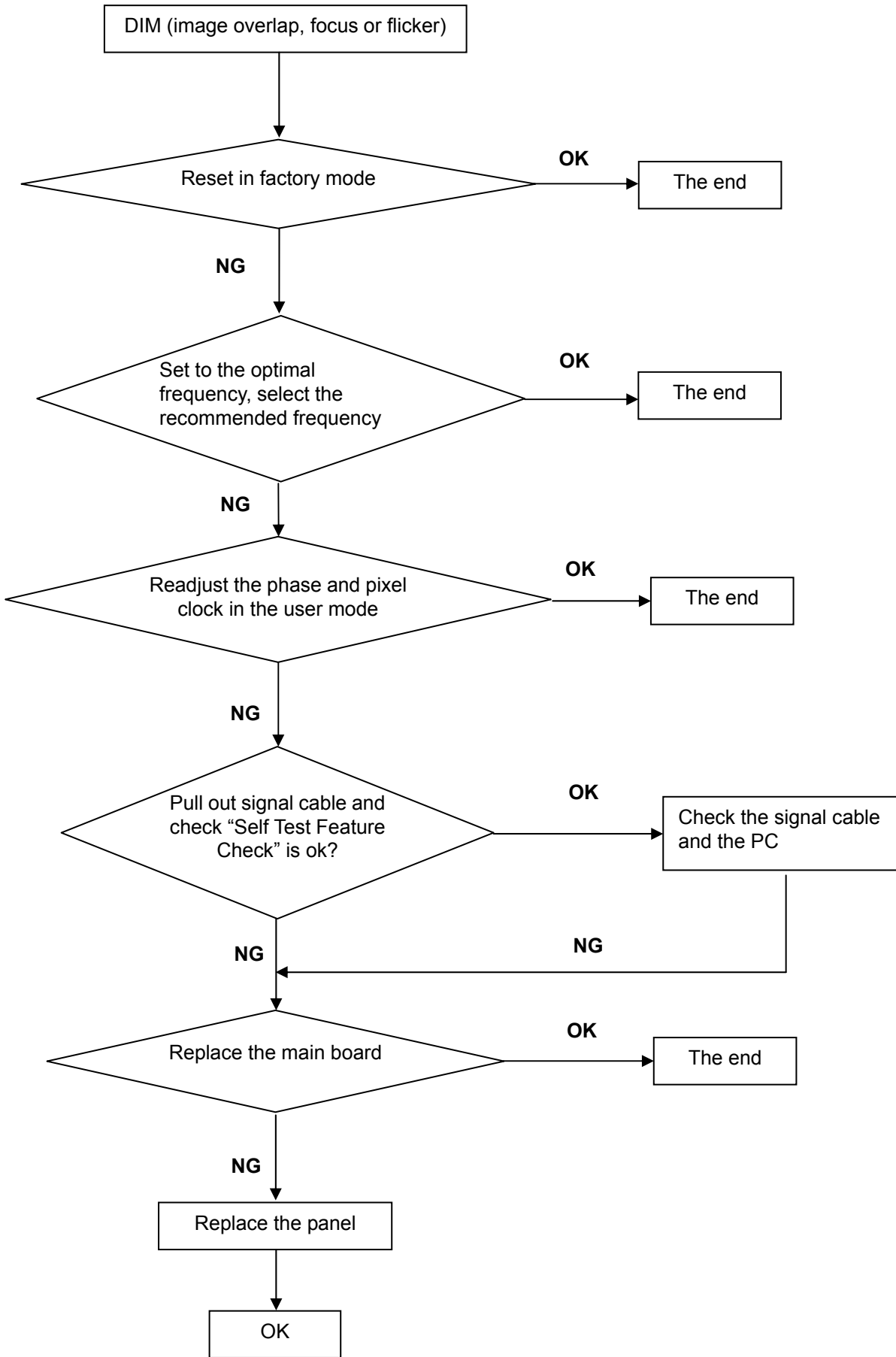
No Power



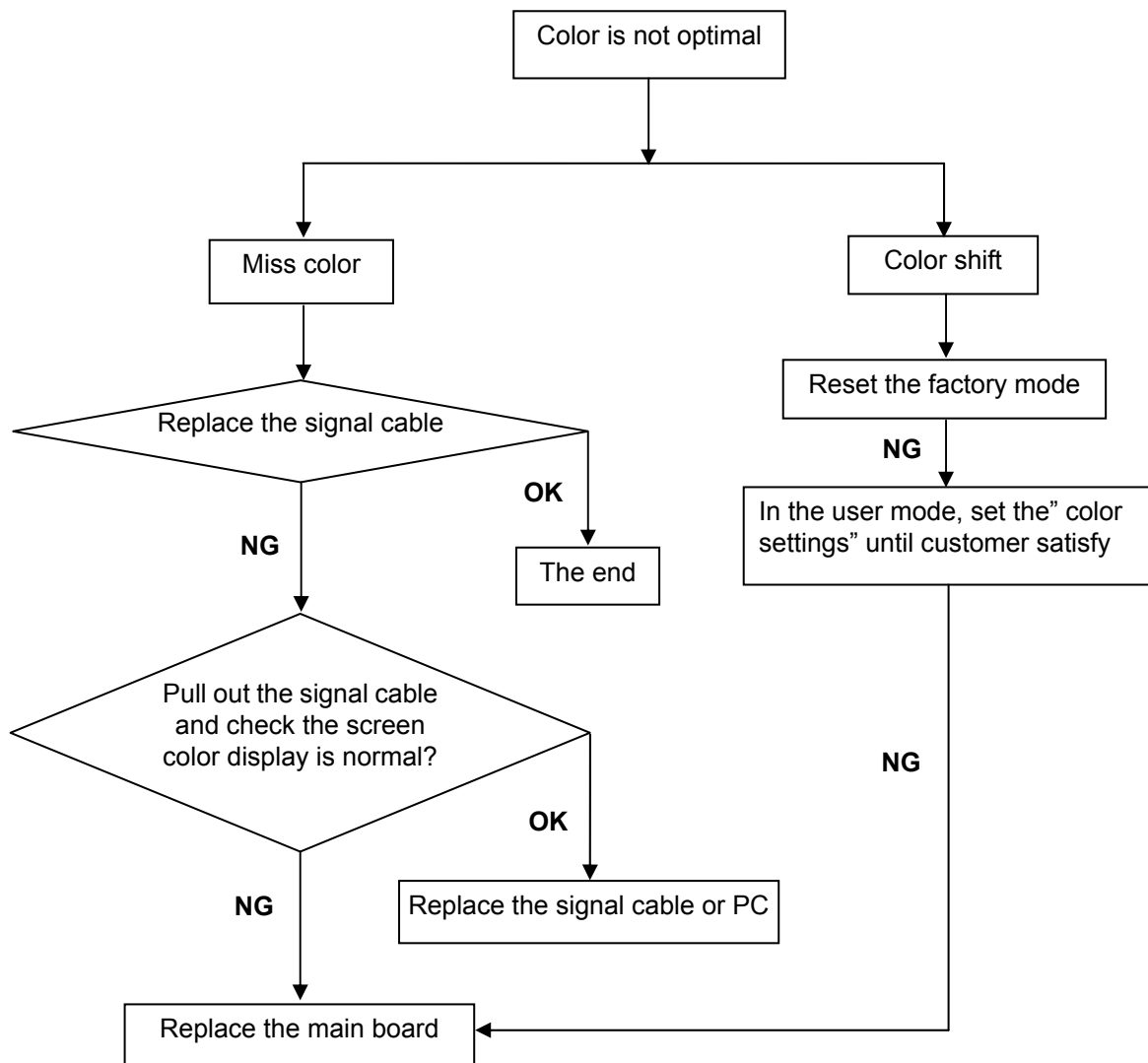
No Video (Power LED Blue)



DIM



Color is not optimal



9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

How to setting MEM channel you can reference to chroma 7120 user guide or simply use “SC” key and “NEXT” Key to modify xyY value and use “ID” key to modify the TEXT description Following is the procedure to do white-balance adjust .

1. Setting the color temp. you want

A. MEM.CHANNEL 3 Warm (6500K):

Warm color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$

B. MEM.CHANNEL 4 Normal (7300K):

Normal color temp. parameter is $x = 301 \pm 20$, $y = 317 \pm 20$

C. MEM.CHANNEL 9 Cool (9300K):

Cool color temp. parameter is $x = 283 \pm 20$, $y = 297 \pm 20$

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$

2. Enter into the factory mode

DC “Power” off, when pressing “MENU” and “AUTO”, DC “Power” on, then press “MENU” again, you will enter into the factory mode.

3. Gain adjustment:

Move cursor to “-F-” and press MENU key

A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

B. Adjust Normal (7300K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 4 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 301 \pm 20$, $y = 317 \pm 20$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Cool (9300K) color-temperature

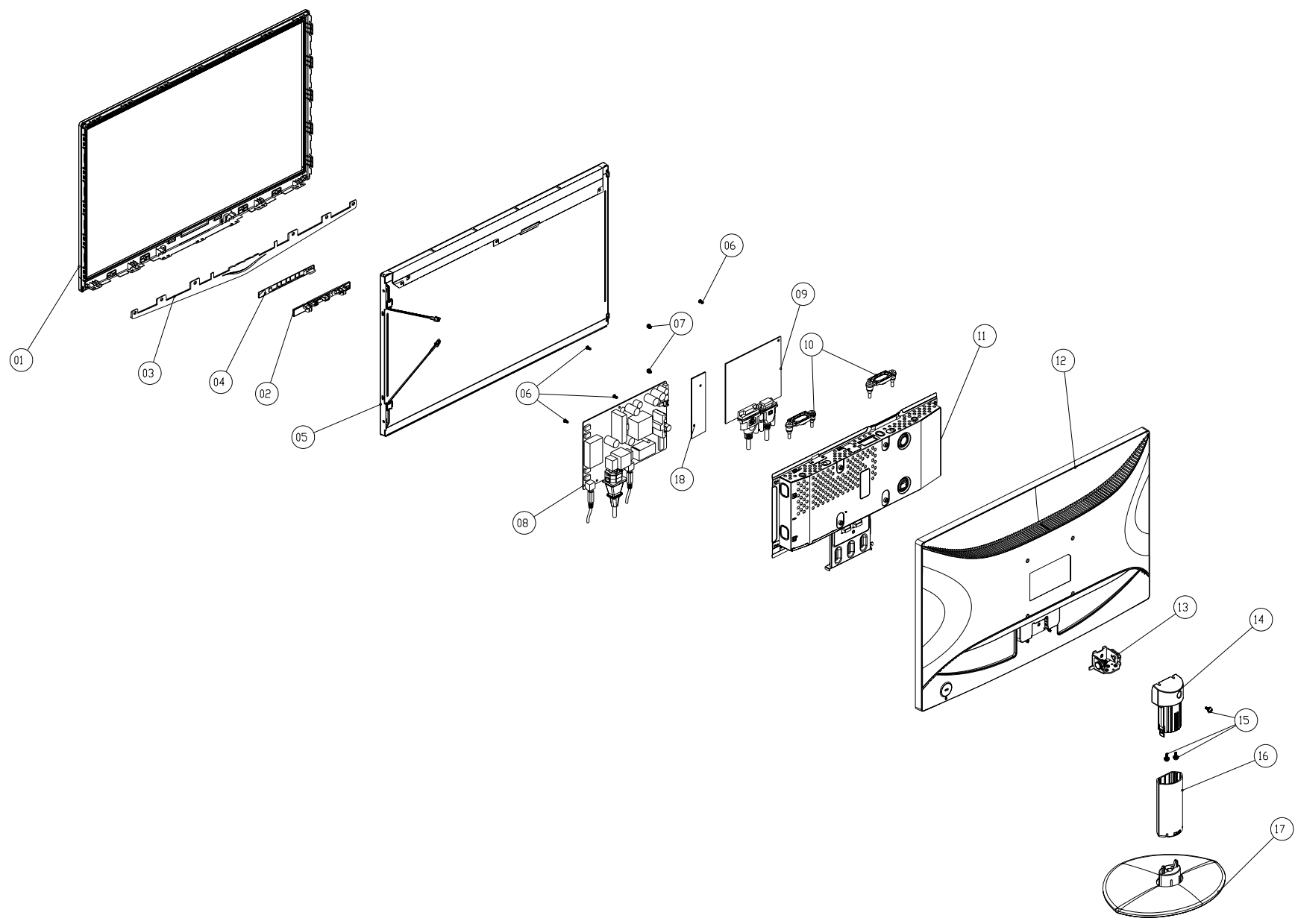
1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 283 \pm 20$, $y = 297 \pm 20$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

E. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



| No. | Description | | | |
|-----|---------------------------|------------|--------------------|--|
| 1 | BEZEL L215WA-TS4-TSS1 | | | |
| 2 | KEY GUIDE | | | |
| 3 | LENS FOR BEZEL | | | |
| 4 | KEY BOARD | | | |
| 5 | PANEL | | | |
| 8 | ADAPTER BOARD | | | |
| 9 | MAIN BOARD | | | |
| 10 | N/A | | | |
| 11 | MAIN_FRAME | | | |
| 12 | REAR COVER 215W | | | |
| 13 | HINGE ASS _i -Y | | | |
| 14 | COVER STAND | No. | Part No. | Description |
| 16 | STAND | 6 | 0G1G1030 6120 | SCREW(FOR PB &MB/MAIN_FRAME) |
| 17 | BASE TSS1 | 7 | 0M1G1730 6120 | SCREW(FOR CONVERTER BOARD /MAIN_FRAME) |
| 18 | CONVERTER BOARD | 15 | AM1G1740 10225 CR3 | SCREW(FOR COVER STAND/HINGE ASS _i -Y) |

11. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to <http://cs.tpv.com.cn/hello1.asp> for the latest information.

TI92A82BW6E1HN

| Location | Part No. | Description | Remark |
|------------|--------------------|---------------------------------------|------------|
| | 052G 1150 C | INSULATING TAPE | |
| | 052G 1211 B | CONDUCTIVE TAPE 85MM *40MM *0.09MM | |
| | 052G 2191 A | PAPER TAPE | |
| | 052G6019 1 | INSULATING TAPE | |
| | 070GHDCP500HDC | HDCP CODE | |
| | 089G 715LAA D6 | D-SUB CABLE 1500MM | |
| | 089G1745CAA AC | DVI CABLE 1.5M | |
| | 089G179J30N584 | FFC CABLE 30P 145MM P1.0MM | |
| E08901 | 089G404A15N HL | AC POWER CORD 1500MM | 2nd Source |
| E08901 | 089G404A15N IS | AC POWER CORD 1500 | |
| | 095G8014 7W599 | HARNESS 7P(PLUG)-6P(A1253HA HR) 180MM | |
| | 095G801410D906 | HARNESS 10P-10P 300MM FQE90742I | |
| | 0G1G1030 6120 | SCREW | |
| | 0M1G1730 6120 | SCREW,42-D020523 | |
| | 708GBF16XWP | ENVISION 40(2040) | |
| | 050G 600 1 W | WHITE STRAP (1G004991) | |
| | Q45G 77 4 | PE FILM | |
| | Q50G 4 10 | TIE (Y1900221) | |
| | Q52G 1185110 | BIG TAPE FOR ENVISION | |
| | 750GLV215HL111N000 | PANEL TPM215HW01 H1L01 C1A FQ TPV | |
| | 756GQ9CB E1002 00 | MAIN BOARD-CBPC9A8E1Q1 | |
| SMTC9-U402 | 100GAMVI002YT1 | MCU ASS'Y-056G1133129 | |
| | A15G0842901501 | MAIN_FRAME | |
| | A34G1404ABJ AK0100 | REAR COVER 215W | |
| | A34G1515AEDB1B0100 | BEZEL L215WA-TS4-TSS1 | |
| | A34G1516 1 1C0100 | LENS FOR BEZEL | |
| | AM1G1740 10225 CR3 | SCREW | |
| | Q16G0001 20 1 | EVA WASHER | |
| | Q16G0001 20 1 | EVA WASHER | |
| | Q40G000362413A | WIN7 AND EPA LABEL | |
| | Q40G0003673 4A | POP LABEL FOR P2271WL | |
| | Q41G78S1673 1C | RUSSIAN WARRANTY CARD | |
| | Q41G78SV673 4B | QSG | |
| | Q44GB016101 | CARTON | |
| | Q44GB016201 | T SERIAL 21.5 | |
| | Q44GBF16673 3D | CARTON | |
| | Q45G 88609204 N | EPE BAG | |
| | Q52G6025 13259 | INSULATE SHEET | |
| | Q45G2010M0201A | P.E. BAG (INSTR. BOOK) | |

| | | | |
|-------|-------------------|---|------------|
| | Q70G22C1673 3A | P2271WL CD MANUAL | |
| | 040G 58162435A | P/N LABEL FOR MANUAL PE BAG | |
| | Q40G 22N67330A | RATING LABEL | |
| | Q40G0001673 2A | CARTON LABEL | |
| | 040G 45762412B | CBPC LABEL | |
| CN402 | 033G3802 7B Y | WAFER | |
| CN402 | 033G3802 7B Y L | CONNECTOR 7P 2.0 | 2nd Source |
| CN701 | 033G3802 9B Y L | CONN 2.0 9P | 2nd Source |
| CN701 | 033G3802 9B Y W | WAFER | |
| CN301 | 033G801930F CH L | FFC CONNECTOR 30P 1.0PITCH | |
| CN301 | 033G801930F CH JS | FFC CONN 1.0MM 30P R/A 34MM 6.3MM | 2nd Source |
| R708 | 061G152M399 64 | 3.9OHM 2W 5% METAL OXIDE | |
| CN101 | 088G 35315F XH | D-SUB 15PIN VERTICAL CONN WITH SCREW | |
| CN102 | 088G 35424F XH | DVI 24PIN CONN F ATTACHED SCREW | |
| X401 | 093G 22 53 J | CRYSTAL 14.31818MHZ/32PF49US | |
| X401 | 093G 22 53 YC | CRYSTAL 14.31818MHZ/32PF 49U/S YC | |
| | 709G3329 QM001 | COMSUPTIVE ASS'Y | |
| | 055G 2 | ALCOHOL | |
| | 055G 23524 | WELDING FLUX WITHOUT PB | |
| | Q55G 100625 | TIN STICK_LOW ARGENTUM | |
| C419 | 067G 3151007KB | EC 10UF M 50V 5*11MM | |
| C305 | 067G 3151014KB | EC LOW ESR 100UF M 25V 6.3*11MM | |
| C704 | 067G 3151014KB | EC LOW ESR 100UF M 25V 6.3*11MM | |
| C707 | 067G 3151014KB | EC LOW ESR 100UF M 25V 6.3*11MM | |
| U107 | 056G 662502 | IC ESD AZC199-04S.R7G SOT23-6L | |
| U106 | 056G 662502 | IC ESD AZC199-04S.R7G SOT23-6L | |
| U103 | 056G 662502 | IC ESD AZC199-04S.R7G SOT23-6L | |
| U104 | 056G 662502 | IC ESD AZC199-04S.R7G SOT23-6L | |
| U105 | 056G 662502 | IC ESD AZC199-04S.R7G SOT23-6L | |
| U402 | 056G1133129 | IC EN25F20-100GCP 2MB SOP-8 | |
| Q407 | 057G 417517 | TRA LMBT3906LT1G -200MA/-40V SOT-23 LRC | |
| Q405 | 057G 417517 | TRA LMBT3906LT1G -200MA/-40V SOT-23 LRC | |
| Q701 | 057G 417518 | TRA LMBT3904LT1G 200MA/40V SOT-23 LRC | |
| Q401 | 057G 417518 | TRA LMBT3904LT1G 200MA/40V SOT-23 LRC | |
| Q302 | 057G 417518 | TRA LMBT3904LT1G 200MA/40V SOT-23 LRC | |
| R704 | 061G0402223 JI | TEST ONLY RST 0402 22K 5% 1/16W TA-I | |
| R406 | 061G0402223 JI | TEST ONLY RST 0402 22K 5% 1/16W TA-I | |
| R304 | 061G0402223 JI | TEST ONLY RST 0402 22K 5% 1/16W TA-I | |
| R401 | 061G04023900FI | TEST ONLY RST 0402 390R 1% 1/16W TA-I | |
| R432 | 061G04023901FI | TEST ONLY RST 0402 3.9K 1% 1/16W TA-I | |
| R433 | 061G04023901FI | TEST ONLY RST 0402 3.9K 1% 1/16W TA-I | |
| R110 | 061G0402471 JI | TEST ONLY RST 0402 470R 5% 1/16W TA-I | |
| FB301 | 071G 56K121 | CHIP BEAD | |
| FB410 | 071G 56V301 B | CHIP BEAD 0805 300R 25% 700MA | |

| | | | |
|-------|----------------|--|--|
| FB404 | 071G 56V301 B | CHIP BEAD 0805 300R 25% 700MA | |
| FB401 | 071G 56V301 B | CHIP BEAD 0805 300R 25% 700MA | |
| FB402 | 071G 56V301 B | CHIP BEAD 0805 300R 25% 700MA | |
| FB105 | 071G 59G301 | CHIP BEAD CHIP BEAD 300 OHM 0603 | |
| FB104 | 071G 59G301 | CHIP BEAD CHIP BEAD 300 OHM 0603 | |
| FB110 | 071G 59G301 | CHIP BEAD CHIP BEAD 300 OHM 0603 | |
| FB103 | 071G 59K190 B | CHIP BEAD 0603 19 OHM FCB1608KF-190T05 | |
| FB102 | 071G 59K190 B | CHIP BEAD 0603 19 OHM FCB1608KF-190T05 | |
| FB101 | 071G 59K190 B | CHIP BEAD 0603 19 OHM FCB1608KF-190T05 | |
| ZD104 | 093G 39GA01 T | RLZ5.6B | |
| | 715G3329 1 2 | MAIN PCB FR4 DS 80X72*1.6MM | |
| U401 | 056G 562299 | IC TSUMU58NWHL-LF-1 PQFP-100 | |
| U701 | 056G 563149 | IC G903T63UF 0.6A/3.3V SOT-223 | |
| U703 | 056G 563506 | IC AME8815BECS180Z TO-252 AME | |
| U101 | 056G1133531 | EEPROM FM24C02A-SO-T-G 2K SOP-8 | |
| U102 | 056G1133531 | EEPROM FM24C02A-SO-T-G 2K SOP-8 | |
| U101 | 056G1133918 | NO-SUGGEST AT24C02BN-SH-T 2KB SO-8 | |
| U102 | 056G1133918 | NO-SUGGEST AT24C02BN-SH-T 2KB SO-8 | |
| Q301 | 057G 763 1 | AO3401 SOT23 BY AOS | |
| Q301 | 057G 763535 | MOSFET LP3401LT1G -4.2A -30V SOT-23 | |
| R414 | 061G0402000 JI | RST 0402 0.05R MAX 1/16W | |
| R418 | 061G0402000 JI | RST 0402 0.05R MAX 1/16W | |
| R423 | 061G0402000 JI | RST 0402 0.05R MAX 1/16W | |
| R452 | 061G0402000 JI | RST 0402 0.05R MAX 1/16W | |
| R453 | 061G0402000 JI | RST 0402 0.05R MAX 1/16W | |
| R453 | 061G0402000 JT | RST CHIPR MAX0R05 1/16W TZAI YUAN | |
| R452 | 061G0402000 JT | RST CHIPR MAX0R05 1/16W TZAI YUAN | |
| R423 | 061G0402000 JT | RST CHIPR MAX0R05 1/16W TZAI YUAN | |
| R418 | 061G0402000 JT | RST CHIPR MAX0R05 1/16W TZAI YUAN | |
| R414 | 061G0402000 JT | RST CHIPR MAX0R05 1/16W TZAI YUAN | |
| R134 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R132 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R131 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R130 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R129 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R128 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R127 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R126 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R115 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R111 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R105 | 061G0402100 JI | TEST ONLY RST 0402 10R 5% 1/16W TA-I | |
| R105 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R111 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R115 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |

| | | | |
|------|----------------|---------------------------------------|--|
| R126 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R127 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R128 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R129 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R130 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R131 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R132 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R134 | 061G0402100 JT | RST CHIP 10R 1/16W 5% TZAI YUAN | |
| R706 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R428 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R417 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R416 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R415 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R409 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R119 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R118 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R113 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R101 | 061G0402101 JI | BEST ONLY RST 0402 100R 5% 1/16W TA-I | |
| R101 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R113 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R118 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R119 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R409 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R415 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R416 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R417 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R428 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R706 | 061G0402101 JT | RST CHIP 100R 1/16W 5% TZAI YUAN | |
| R705 | 061G0402102 JI | RST 0402 1K 5% 1/16W TA-I | |
| R455 | 061G0402102 JI | RST 0402 1K 5% 1/16W TA-I | |
| R419 | 061G0402102 JI | RST 0402 1K 5% 1/16W TA-I | |
| R104 | 061G0402102 JI | RST 0402 1K 5% 1/16W TA-I | |
| R103 | 061G0402102 JI | RST 0402 1K 5% 1/16W TA-I | |
| R705 | 061G0402102 JT | RST CHIP 1K 1/16W 5% TZAI YUAN | |
| R455 | 061G0402102 JT | RST CHIP 1K 1/16W 5% TZAI YUAN | |
| R419 | 061G0402102 JT | RST CHIP 1K 1/16W 5% TZAI YUAN | |
| R104 | 061G0402102 JT | RST CHIP 1K 1/16W 5% TZAI YUAN | |
| R103 | 061G0402102 JT | RST CHIP 1K 1/16W 5% TZAI YUAN | |
| R703 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R702 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R436 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R412 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R407 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R308 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |

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| R305 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R135 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R133 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R120 | 061G0402103 JI | TEST ONLY RST 0402 10K 5% 1/16W TA-I | |
| R120 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R133 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R135 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R305 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R308 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R407 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R412 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R436 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R702 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R703 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R136 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R123 | 061G0402103 JT | RST CHIP 10K 1/16W 5% TZAI YUAN | |
| R136 | 061G0402103 JY | RST CHIPR 10KOHM +-5% 1/16W YAGEO | |
| R123 | 061G0402103 JY | RST CHIPR 10KOHM +-5% 1/16W YAGEO | |
| R421 | 061G0402104 JI | TEST ONLY RST 0402 100K 5% 1/16W TA-I | |
| R421 | 061G0402104 JT | RST CHIP 100K 1/16W 5% TZAI YUAN | |
| R107 | 061G0402222 JI | TEST ONLY RST 0402 2.2K 5% 1/16W TA-I | |
| R106 | 061G0402222 JI | TEST ONLY RST 0402 2.2K 5% 1/16W TA-I | |
| R106 | 061G0402222 JT | RST CHIP 2K2 1/16W 5% TZAI YUAN | |
| R107 | 061G0402222 JT | RST CHIP 2K2 1/16W 5% TZAI YUAN | |
| R704 | 061G0402223 JT | RST CHIP 22K 1/16W 5% TZAI YUAN | |
| R406 | 061G0402223 JT | RST CHIP 22K 1/16W 5% TZAI YUAN | |
| R304 | 061G0402223 JT | RST CHIP 22K 1/16W 5% TZAI YUAN | |
| R117 | 061G0402470 JI | RST 0402 47R 5% 1/16W | |
| R114 | 061G0402470 JI | RST 0402 47R 5% 1/16W | |
| R109 | 061G0402470 JI | RST 0402 47R 5% 1/16W | |
| R109 | 061G0402470 JT | RST CHIP 47R 1/16W 5% TZAI YUAN | |
| R114 | 061G0402470 JT | RST CHIP 47R 1/16W 5% TZAI YUAN | |
| R117 | 061G0402470 JT | RST CHIP 47R 1/16W 5% TZAI YUAN | |
| R402 | 061G0402472 JF | RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA | |
| R404 | 061G0402472 JF | RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA | |
| R125 | 061G0402472 JI | TEST ONLY RST CHIP 4.7K 5% 1/16W TA-I | |
| R124 | 061G0402472 JI | TEST ONLY RST CHIP 4.7K 5% 1/16W TA-I | |
| R137 | 061G0402472 JI | TEST ONLY RST CHIP 4.7K 5% 1/16W TA-I | |
| R138 | 061G0402472 JI | TEST ONLY RST CHIP 4.7K 5% 1/16W TA-I | |
| R303 | 061G0402472 JI | TEST ONLY RST CHIP 4.7K 5% 1/16W TA-I | |
| R402 | 061G0402472 JT | RST CHIP 4K7 1/16W 5% TZAI YUAN | |
| R404 | 061G0402472 JT | RST CHIP 4K7 1/16W 5% TZAI YUAN | |
| R124 | 061G0402472 JY | RST CHIPR 4.7KOHM +-5% 1/16W YAGEO | |
| R125 | 061G0402472 JY | RST CHIPR 4.7KOHM +-5% 1/16W YAGEO | |

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| R303 | 061G0402472 JY | RST CHIPR 4.7KOHM +-5% 1/16W YAGEO | |
| R138 | 061G0402472 JY | RST CHIPR 4.7KOHM +-5% 1/16W YAGEO | |
| R137 | 061G0402472 JY | RST CHIPR 4.7KOHM +-5% 1/16W YAGEO | |
| R306 | 061G0402563 JI | RST 0402 56K 5% 1/16W | |
| R306 | 061G0402563 JT | RST CHIPR 56KOHM 1/16W TZAI YUAN | |
| R139 | 061G0402682 JI | RST CHIP 6.8K 5% 1/16W TA-I | |
| R139 | 061G0402682 JT | RST CHIP 6K8 1/16W 5% TZAI YUAN | |
| R116 | 061G0402750 JI | TEST ONLY RST 0402 75R 5% 1/16W TA-I | |
| R112 | 061G0402750 JI | TEST ONLY RST 0402 75R 5% 1/16W TA-I | |
| R108 | 061G0402750 JI | TEST ONLY RST 0402 75R 5% 1/16W TA-I | |
| R116 | 061G0402750 JT | RST 0402 75R 5% 1/16W | |
| R112 | 061G0402750 JT | RST 0402 75R 5% 1/16W | |
| R108 | 061G0402750 JT | RST 0402 75R 5% 1/16W | |
| R456 | 061G0603000 JI | RST 0603 0.05R MAX 1/10W TA-I | |
| R405 | 061G0603000 JI | RST 0603 0.05R MAX 1/10W TA-I | |
| R102 | 061G0603000 JI | RST 0603 0.05R MAX 1/10W TA-I | |
| R456 | 061G0603000 JT | RST CHIP MAX 0R05 1/10W TZAI YUAN | |
| R405 | 061G0603000 JT | RST CHIP MAX 0R05 1/10W TZAI YUAN | |
| R102 | 061G0603000 JT | RST CHIP MAX 0R05 1/10W TZAI YUAN | |
| R301 | 061G1206221 JI | RST 1206 220R 5% 1/4W | |
| R302 | 061G1206221 JI | RST 1206 220R 5% 1/4W | |
| R302 | 061G1206221 JT | RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN | |
| R301 | 061G1206221 JT | RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN | |
| C121 | 065G040210232K A | CAP 0402 1NF 10% 50V X7R | |
| C122 | 065G040210232K A | CAP 0402 1NF 10% 50V X7R | |
| C107 | 065G040210232K A | CAP 0402 1NF 10% 50V X7R | |
| C409 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C410 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C411 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C412 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C413 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C414 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C415 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C417 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C422 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C432 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C701 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C702 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C705 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C708 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C709 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C713 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C416 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |
| C115 | 065G040210412K A | CAP CHIP 0402 100NF K 16V X7R | |

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| C124 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C301 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C304 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C403 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C404 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C405 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C406 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C407 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C408 | 065G040210412K | A | CAP CHIP 0402 100NF K 16V X7R | |
| C436 | 065G0402105A5K | T | CAP 0402 1UF 10% 10V X5R | |
| C103 | 065G040222031J | A | CAP 0402 22PF J 50V NPO | |
| C104 | 065G040222031J | A | CAP 0402 22PF J 50V NPO | |
| C116 | 065G040222417Z | T | CAP CHIP 0402 0.22UF 16V Y5V | |
| C117 | 065G040222417Z | T | CAP CHIP 0402 0.22UF 16V Y5V | |
| C302 | 065G040222417Z | T | CAP CHIP 0402 0.22UF 16V Y5V | |
| C401 | 065G040222417Z | T | CAP CHIP 0402 0.22UF 16V Y5V | |
| C420 | 065G040247031J | Y | CAP CHIP 0402 47PF 50V NPO +/-5% | |
| C421 | 065G040247031J | Y | CAP CHIP 0402 47PF 50V NPO +/-5% | |
| C114 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C111 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C102 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C106 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C108 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C110 | 065G040247312K | A | CAP 0402 47NF 10% 16V X7R | |
| C113 | 065G040250931J | A | CAP 0402 5PF J 50 NPO | |
| C109 | 065G040250931J | A | CAP 0402 5PF J 50 NPO | |
| C105 | 065G040250931J | A | CAP 0402 5PF J 50 NPO | |
| C303 | 065G060310512K | T | CAP 0603 1UF 10% 16V X7R | |
| C402 | 065G0805475A2K | T | CAP CHIP 0805 4.7UF K 10V X7R | |
| C402 | 065G0805475A2K | Y | CAP CHIP 0805 4.7UF K 10V X7R | |
| D104 | 093G 64 42 L | | DIODE LBAV70LT1G SOT-23 LRC | |
| D108 | 093G 64 42 L | | DIODE LBAV70LT1G SOT-23 LRC | |
| D108 | 093G 64 42 PP | | BAV70 SOT-23 | |
| D104 | 093G 64 42 PP | | BAV70 SOT-23 | |
| | 709G3329 QS001 | | COMSUPTIVE ASS'Y | |
| | Q52G6026 7 | | MESH PRINTTING PAPER | |
| R401 | 061G04023900FY | | RST CHIP 390R 1/16W 1% | |
| R432 | 061G04023901FF | | RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA | |
| R433 | 061G04023901FF | | RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA | |
| R110 | 061G0402471 JT | | RST CHIP 470R 1/16W 5% TZAI YUAN | |
| | 709G3329 QA001 | | COMSUPTIVE ASS'Y | |
| | KEPC9QE1 | | KEY BOARD G3706-K01-000-0040-1-100530 | |
| | A33G0776AED 1L0100 | | KEY GUIDE | |
| | Q52G 3101 | | DOUBLE FACE TAPE | |

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| | Q52G 3102 | DOUBLE FACE TAPE | |
| CN001 | 033G8032 6F S HR | CONNECTOR | |
| Q001 | 057G 417518 | TRA LMBT3904LT1G 200MA/40V SOT-23 LRC | |
| Q002 | 057G 417518 | TRA LMBT3904LT1G 200MA/40V SOT-23 LRC | |
| R014 | 061G0603472 JY | RST CHIPR 4.7KOHM \pm 5% 1/10W YAGEO | |
| R015 | 061G0603472 JY | RST CHIPR 4.7KOHM \pm 5% 1/10W YAGEO | |
| R005 | 061G0603561 JY | RST CHIP 560R 1/10W 5% YAGEO | |
| R004 | 061G0603561 JY | RST CHIP 560R 1/10W 5% YAGEO | |
| R003 | 061G0603561 JY | RST CHIP 560R 1/10W 5% YAGEO | |
| R002 | 061G0603561 JY | RST CHIP 560R 1/10W 5% YAGEO | |
| R001 | 061G0603561 JY | RST CHIP 560R 1/10W 5% YAGEO | |
| C001 | 065G060310231J M | CAP 0603 1NF 5% 50V NP0 | |
| C003 | 065G060310412K Y | CAP CHIP 0603 100N 16V X7R +/-10% | |
| C004 | 065G060310412K Y | CAP CHIP 0603 100N 16V X7R +/-10% | |
| C005 | 065G060310412K Y | CAP CHIP 0603 100N 16V X7R +/-10% | |
| LED001 | 081G15BY 2 EL | LED BLUE/ORANGE 12-22/BHS2C-C30/2C | |
| LED002 | 081G15BY 2 EL | LED BLUE/ORANGE 12-22/BHS2C-C30/2C | |
| LED003 | 081G15BY 2 EL | LED BLUE/ORANGE 12-22/BHS2C-C30/2C | |
| U001 | 056G 665 43 | IC CY8C20180-LDX2I QFN-16(COL) | |
| U001 | 056G 669 10 | TOUCH KEY CG7246AMT QFN-16(COL) | |
| R006 | 061G0603221 JY | RST 0603 220R 5% 1/10W | |
| R008 | 061G0603221 JY | RST 0603 220R 5% 1/10W | |
| R010 | 061G0603221 JY | RST 0603 220R 5% 1/10W | |
| R011 | 061G0603331 JY | RST CHIPR 330 OHM +/-5% 1/10W YAGEO | |
| R009 | 061G0603331 JY | RST CHIPR 330 OHM +/-5% 1/10W YAGEO | |
| R007 | 061G0603331 JY | RST CHIPR 330 OHM +/-5% 1/10W YAGEO | |
| C002 | 065G060310605M Y | CAP CHIP 0603 10UF 6.3V X5R +/-20% | |
| ZD003 | 093G 64 59 SU | ESD MLVS0603M04 0603 | |
| ZD001 | 093G 39S 34 T | UDZSNP5.6B ROHM | |
| ZD002 | 093G 39S 34 T | UDZSNP5.6B ROHM | |
| ZD004 | 093G 39S 34 T | UDZSNP5.6B ROHM | |
| E715 | 715G3706K02000004F | KEY PCB FR-4 122X10.2X1.0MM DS | 2nd Source |
| E715 | 715G3706K02000004L | KEY PCB FR-4 122X10.2X1.0MM DS | |
| | ADPC93302AB6 | CONVERTER BOARD G3649-P01-000-X-1-100423 | |
| | 040G 45762412B | CBPC LABEL | |
| C802 | 067G 4151017KV | EC 100UF 50V ED 8*12 | |
| C814 | 067G 4151017KV | EC 100UF 50V ED 8*12 | |
| C802 | 067G 4151017LV | EC 100UF 20% 50V RZY 8*11.5 | |
| C814 | 067G 4151017LV | EC 100UF 20% 50V RZY 8*11.5 | |
| CN802 | 033G8021 2T U | CONNECTOR | |
| CN803 | 033G8021 2T U | CONNECTOR | |
| CN801 | 033G803210F HR | CONNECTOR 10P 1.25 | |
| U801 | 056G 379153 | IC OZ9954SN SSOP-20 | |
| Q803 | 057G 41717B T | TRA PZT2907A PHILIPS | |

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| Q804 | 057G 41717B T | TRA PZT2907A PHILIPS | |
| R810 | 061G0603000 JY | RST CHIPR MAX0R05 1/10W YAGEO | |
| R809 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R808 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R807 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R806 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R805 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R801 | 061G0603103 JY | RST CHIPR 10KOHM £«-5£¥ 1/10W YAGEO | |
| R804 | 061G0603104 JY | RST CHIPR 100KOHM 1/10W YAGEO | |
| R802 | 061G0603104 JY | RST CHIPR 100KOHM 1/10W YAGEO | |
| R819 | 061G0603164 JF | RST CHIPR 160KOHM 5% 1/10W FENGHUA | |
| R815 | 061G0603229 JT | RST 0603 2.2R 5% 1/10W | |
| R817 | 061G0603229 JT | RST 0603 2.2R 5% 1/10W | |
| R816 | 061G06035108FF | RST CHIPR 5.1OHM +-1% 1/10W FENGHUA | |
| R818 | 061G06035108FF | RST CHIPR 5.1OHM +-1% 1/10W FENGHUA | |
| R813 | 061G0805512 JF | RST CHIPR 5.1KOHM +-5% 1/8W FENGHUA | |
| R814 | 061G0805512 JF | RST CHIPR 5.1KOHM +-5% 1/8W FENGHUA | |
| R820 | 061G1206000 JY | RST CHIPR MAX0R05 1/4W YAGEO | |
| F801 | 061G12060004JY | RST CHIPR MAX0R05 4A 1/4W YAGEO | |
| C803 | 065G060310232K Y | CAP CHIP 0603 1N 50V X7R +/-10% | |
| C809 | 065G080510322K Y | NO-SUGGEST 0805 10NF K 25V X7R | |
| C806 | 065G080510322K Y | NO-SUGGEST 0805 10NF K 25V X7R | |
| C804 | 065G080510322K Y | NO-SUGGEST 0805 10NF K 25V X7R | |
| C801 | 065G080510422K Y | CAP CHIP 0805 100N 25V X7R +/-10% | |
| ZD801 | 093G 60S 31 T | SCHOTTKY B360B 3A 60V SMB | |
| Q801 | 057G 759 2 | RK7002FD5T116 SOT-23 BY ROHM | |
| Q801 | 057G 763511 | MOSFET SRK7002LT1G SOT-23 LRC | |
| Q802 | 057G 763947 | MOSFET APM8005KCTRG SOP-8 | |
| R811 | 061G0603000 FF | RST CHIPR MAX0R01 1/10W FENGHUA | |
| R811 | 061G0603000 FT | NO-SUGGEST 0.01R MAX 1/10W TZAI YUAN | |
| R803 | 061G0805100 JF | RST CHIPR 10 OHM +-5% 1/8W FENGHUA | |
| R803 | 061G0805100 JY | RST CHIPR 10OHM +- 5% 1/8W YEGAO | |
| R812 | 061G08051000FT | RST CHIPR 100 OHM +-1% 1/8W | |
| R812 | 061G08051000FY | RST CHIPR 100 OHM +-1% 1/8W YAGEO | |
| C810 | 065G060310131J A | CAP CHIP 0603 100PF J 50V NPO SAMSUNG | |
| C808 | 065G060310131J A | CAP CHIP 0603 100PF J 50V NPO SAMSUNG | |
| C812 | 065G080510432K 3 | CAP CHIP 0805 100N 50V X7R +/-10% | |
| C805 | 065G080510522K M | CAP 0805 1UF 10% 25V X7R | |
| C811 | 065G080522131J F | CAP CHIP 0805 220PF J 50V NPO | |
| C807 | 065G080522512K M | CAP 0805 2.2UF 10% 16V X7R | |
| C807 | 065G080522512K T | CAP CHIP 0805 2.2UF K 16V X7R | |
| L801 | 073G253S 80 H | SMD CHOKE 22UH 2.16A SPI103LRR-220 | |
| L801 | 073G253S 80 DN | SMD CHOKE 22UH 2.16A LZ.3A220.A1P HF | |
| ZD801 | 093G 60S926 T | DIODE SR36 DO-214AA | |

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| | 715G3649P01000004L | CONVERTER PCB 90X40X1.6MM FR-4 D/S 1OZ | |
| | ADPC91503YC3 | ADAPTER BOARD G3189-PO1-LED-X-6-091112 | |
| | 040G 45762412B | CBPC LABEL | |
| GND1 | 009G6005 1 | GROUND TERMINAL | |
| GND2 | 009G6005 1 | GROUND TERMINAL | |
| GND3 | 009G6005 1 | GROUND TERMINAL | |
| CN903 | 033G380210B Y L | CONNECTOR 10P 2.0 | |
| CN903 | 033G380210B Y W | WAFER | 2nd Source |
| IC902 | 056G 139 3A | PC123Y22FZOF SHARP | |
| NR901 | 061G 58 9T | RST NTCR 10 OHM +-20% 5A THINKING | |
| C904 | 063G107K474 6S | 0.47UF +-10% | |
| C904 | 063G107K474 US | NO-SUGGEST 0.47UF +-10% | |
| C903 | 065G306K3312B3 | Y1 CAP 330PF K 250VAC CD | |
| C902 | 065G306K3312BM | CAP Y1 330PF 10% 250V Y5P | |
| C903 | 065G306K3312BM | CAP Y1 330PF 10% 250V Y5P | |
| C900 | 065G306M1022BP | CAP Y1 1NF 20% 250V Y5U | |
| C918 | 067G 3151007KV | CAP 105C 10UF M 50V | |
| C907 | 067G 40Z10115K | CAP 105C 100UF M 450V | |
| C907 | 067G 40Z10115L | EC 100UF 450V M 18*36MM | |
| C912 | 067G215D1024KV | LOW ESR EC 1000UF 25V M 12.5*20MM | |
| C914 | 067G215S4713KV | EC 470UF 20% 16V 10X13 | |
| C914 | 067G215S4713LV | LOW ESR EC 470UF 16V M 10*12.5MM | |
| L901 | 073G 174 65 H2 | LINE FILTER 30MH MIN | |
| L901 | 073G 174 65 S2 | LINE FILTER 30MH MIN | |
| L902 | 073G 253 91 H | IND CHOKE 3.5UH+-10% DADONG | |
| L903 | 073G 253 91 H | IND CHOKE 3.5UH+-10% DADONG | |
| L902 | 073G 253 91 HP | CHOKE COIL 3.5UH VOC | |
| L903 | 073G 253 91 HP | CHOKE COIL 3.5UH VOC | |
| T901 | 080GL19P 1 H | X'FMR 1.1MH 10% 20UH MAX BCK-12510-HA | |
| T901 | 080GL19P 1 L | POWER X'FMR 1.1MH 10% PT-0112045-2 | |
| T901 | 080GL19P 1 N | X'FMR 1.1MH 10% 20UH MAX YUVA-1208 | |
| CN901 | 087G 501 32 S | AC SOCKET ST-01CP-BCE-R | 2nd Source |
| CN901 | 087G 501 32 DL | AC SOCKET DIP 3PIN+2PIN GROUND | |
| BD901 | 093G 50460 28 | BRIDGE DIODE KBP208G LITEON | |
| BD901 | 093G 50460502 | BRIDGE KBP206G C2 | |
| D906 | 093G 60272 | RECTIFIER SR540-MK23 5A 40V DO-27 | |
| D904 | 093G 60272 | RECTIFIER SR540-MK23 5A 40V DO-27 | |
| D903 | 093G 60520 | DIODE SR5100-MK23 5A/100V DO-27 SECOS | |
| D905 | 093G 60520 | DIODE SR5100-MK23 5A/100V DO-27 SECOS | |
| D904 | 093G 60923 | DIODE SR504-30 DO-201AD | |
| D906 | 093G 60923 | DIODE SR504-30 DO-201AD | |
| D905 | 093G 60924 | DIODE SR510-22 DO-201AD | |
| D903 | 093G 60924 | DIODE SR510-22 DO-201AD | |
| CN902 | 095G 825 9D904 | HARNESS 9P(SCN) - 9P 200MM FQE90829I | 2nd Source |

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| CN902 | 095G 825 9X904 | HARNES 9P(SCN) - 9P 120MM LCDXXTF0358 | |
| R623 | 061G0603000 JF | RST CHIPR MAX 0R05 1/10W FENGHUA | |
| R628 | 061G0603000 JF | RST CHIPR MAX 0R05 1/10W FENGHUA | |
| R917 | 061G06031001FT | RST CHIP 1K 1/10W 1% | |
| R917 | 061G06031001FY | RST CHIPR 1KOHM +-1% 1/10W YAGEO | |
| R913 | 061G06031002FT | RST CHIP 10K 1/10W 1% | |
| R912 | 061G0603103 JI | RST 0603 10K 5% 1/10W | |
| R912 | 061G0603103 JT | RST CHIP 10K 1/10W 5% TZAI YUAN | |
| R916 | 061G0603471 JF | RST CHIPR 470OHM +-5% 1/10W FENGHUA | |
| R916 | 061G0603471 JY | RST CHIPR 470 OHM 5% 1/10W YAGEO | |
| R915 | 061G06039311FF | RST CHIPR 9.31KOHM +-1% 1/10W FENGHUA | |
| R915 | 061G06039311FY | RST CHIPR 9.31KOHM +-1% 1/10W YAGEO | |
| R923 | 061G08051002FF | RST CHIPR 10KOHM +-1% 1/8W FENGHUA | |
| R923 | 061G08051002FT | RST CHIP 10K 1/8W 1% | |
| R923 | 061G08051002FY | RST CHIP 10K 1/8W 1% | |
| R903 | 061G08051102FY | RST CHIP 11K 1/8W 1% | |
| R924 | 061G0805689 JI | RST CHIPR 6.8 OHM +-5% 1/8W 0805 | |
| R924 | 061G0805689 JT | RST CHIPR 6.8 OHM +-5% 1/8W 0805 | |
| R924 | 061G0805689 JY | RST CHIPR 6R8 +-5% 1/8W YAGEO | |
| R925 | 061G08058202FF | RST CHIPR 82KOHM +-1% 1/8W FENGHUA | |
| R925 | 061G08058202FT | RST CHIPR 82K +-1% 1/8W TZAI YUAN | |
| R927 | 061G12060004JY | RST CHIPR MAX0R05 4A 1/4W YAGEO | |
| R910 | 061G1206101 JT | RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN | |
| R910 | 061G1206101 JY | RST CHIPR 100R +-5% 1/4W YAGEO | |
| R923 | 061G1206103 JY | RST CHIPR 10K +-5% 1/4W YAGEO | |
| R926 | 061G1206229 JY | RST 1206 2.2R 5% 1/4W | |
| R909 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R908 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R907 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R906 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R905 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R904 | 061G1206300 JF | RST CHIPR 30 OHM +-5% 1/4W FENGHUA | |
| R904 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R905 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R906 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R907 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R908 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R909 | 061G1206300 JI | RST 30 OHM 5% 1/4W TA-I | |
| R920 | 061G1206335 JT | RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN | |
| R921 | 061G1206335 JT | RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN | |
| R922 | 061G1206335 JT | RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN | |
| R900 | 061G1206624 JT | RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN | |
| R901 | 061G1206624 JT | RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN | |
| R902 | 061G1206624 JT | RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN | |

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| R900 | 061G1206624 JY | | RST CHIPR 620 KOHM +-5% 1/4W YAGEO |
| R902 | 061G1206624 JY | | RST CHIPR 620 KOHM +-5% 1/4W YAGEO |
| C916 | 065G060310312K | Y | CAP CHIP 0603 10NF K 16V X7R |
| C905 | 065G080510432K | A | CAP CHIP 0805 0.1UF K 50V X7R |
| C905 | 065G080510432K | F | CAP CHIP 0805 0.1UF K 50V X7R |
| C915 | 065G080510432K | Y | CAP CHIP 0805 100N 50V X7R +/-10% |
| C917 | 065G080510432K | Y | CAP CHIP 0805 100N 50V X7R +/-10% |
| C901 | 065G080582031J | Y | CAP CHIP 0805 82P 50V NP0 +/-5% |
| C920 | 065G120622272K | Y | CER 1206 2N2 500V X7R 10% |
| C919 | 065G120622272K | Y | CER 1206 2N2 500V X7R 10% |
| C911 | 065G120622272K | Y | CER 1206 2N2 500V X7R 10% |
| C910 | 065G120622272K | Y | CER 1206 2N2 500V X7R 10% |
| C920 | 065G1206222B2K | 3 | CER 1206 2N2 500V X7R 10% |
| C919 | 065G1206222B2K | 3 | CER 1206 2N2 500V X7R 10% |
| C911 | 065G1206222B2K | 3 | CER 1206 2N2 500V X7R 10% |
| C910 | 065G1206222B2K | 3 | CER 1206 2N2 500V X7R 10% |
| C910 | 065G1206222B2K | M | CAP 1206 2.2NF 10% 630V X7R |
| C911 | 065G1206222B2K | M | CAP 1206 2.2NF 10% 630V X7R |
| C919 | 065G1206222B2K | M | CAP 1206 2.2NF 10% 630V X7R |
| C920 | 065G1206222B2K | M | CAP 1206 2.2NF 10% 630V X7R |
| CN901 | 006G 31500 | | EYELET |
| IC903 | 056G 158 12 | | SHUNT REGULATOR KIA431A-AT/P TO-92 |
| Q901 | 057G 530503 | T | 2SD1207T |
| Q901 | 057G 761 16 | | TRA KTD1028 KEC |
| R919 | 061G152M10452T | | NO-SUGGEST RST MOFR 100KOHM +-5% 2WS |
| R918 | 061G152M25152T | | RST MOFR 250 OHM +-5% 2WS |
| C906 | 065G 2K152 2T6921 | | CAP CER 1500PF K 2KV Y5P |
| C913 | 067G 2046812KT | | CS CAP 680UF 10V 8*11 MM |
| C913 | 067G 2046812LT | | CAP CS 680UF 20% 10V 8*11.5 |
| C908 | 067G 2154707NT | | KY50VB47M-TP5 6.3*11 |
| C908 | 067G 2154707RT | | 47UF +-20% 50V |
| FB902 | 071G 55 9 T | | BEAD 3.5*0.8*6.0MM 110R HF |
| FB603 | 071G 55 29 | | FERRITE BEAD |
| F901 | 084G 55 5 | | FUSE 2.5A 250V |
| F902 | 084G 56 4 B | | FUSE 4A 250V |
| ZD902 | 093G 3916752T | | MTZJ T-72 16B |
| ZD901 | 093G 3916852T | | ZENER MTZJ T-72 22B 22V 0.5W DO-34 |
| ZD902 | 093G 3954752T | | DIODE MTZJ16B SEMTECH |
| D902 | 093G 6026T52T | | CTIFIER DIODE FR107 |
| D901 | 093G 6038T52T | | FR103 AO |
| J617 | 095G 90 23 | | JUMPER WIRE |
| J906 | 095G 90 23 | | JUMPER WIRE |
| J905 | 095G 90 23 | | JUMPER WIRE |
| J601 | 095G 90 23 | | JUMPER WIRE |

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| J904 | 095G 90 23 | JUMPER WIRE | |
| J903 | 095G 90 23 | JUMPER WIRE | |
| J902 | 095G 90 23 | JUMPER WIRE | |
| J900 | 095G 90 23 | JUMPER WIRE | |
| J616 | 095G 90 23 | JUMPER WIRE | |
| J615 | 095G 90 23 | JUMPER WIRE | |
| J609 | 095G 90 23 | JUMPER WIRE | |
| J608 | 095G 90 23 | JUMPER WIRE | |
| E715 | 715G3189P02LED001M | POWER PCB FR-1 S/S 152X122MM | 2nd Source |
| E715 | 715G3189P02LED001S | PWR PCB FR1 SS 152X122*1.6MM | |
| T901 | S80GL19P1V | XFMR FOR POWER 1.06MH TPV-PT | |
| | 705GQ956024 | IC901 ASS'Y | |
| IC901 | 056G 581 20 | IC TOP255EN ESIP-7C | |
| | 0M1G1730 8120 | SCREW 3X8 | |
| | Q11G0026 1 | CABLE CLIP | |
| HS1 | Q90G6263 6 | HEAT SINK | |
| | 705GQ934219 | STAND-BASE ASS'Y | |
| | A34G1405AED 1B0100 | COVER STAND | |
| | A34G1406AED 1B0100 | STAND | |
| | A34G1407AED 1B0130 | BASE TSS1 | |
| M037 | A37G0127 1 | HINGE ASS'Y | |
| | AM1G1740 10225 CR3 | SCREW | |
| | Q12G6600 6 | FOOT | |
| M037 | SA37G01271 | HINGE ASS'Y | |
| | 015F0127010 | BRACKET | |
| | 015F0127020 | BRACKET | |
| | 004F0610051 01 | WASHER | |
| | 004F061212T 00 | WASHER | |
| | 004F061210M 00 | METAL WASHERS12.0*6.03*4.70H | |
| | 004F0612121 00 | WASHER | |
| | 004F0611051 00 | WASHER | |
| | 028F0617070 | SHAFT | |
| | 0M1F3050106 | SCREW | |
| | 002F0605100 | SCREW NUTS M6.0*P1.0 | |

TIAGA82MW6E1HN Converter board LNPCAB511GYZ1

| Location | Part No. | Description | Remark |
|----------|----------------|--------------------------------------|--------|
| C802 | 067G 4151017LV | EC 100UF 20% 50V RZY 8*11.5 | |
| C811 | 067G 415330 9L | EC 33UF 20% 100V RZW 8*11.5 | |
| | H40G 45762429A | LABEL | |
| CN801 | 033G803210F HR | CONNECTOR 10P 1.25 | |
| IC801 | 056G 379185 | LED DRIVER TA9690GN-A1-0-TR SOP-24 | |
| Q801 | 057G 763 92 | FET P8008HV 4A/80V SOP-8 | |
| Q801 | 057G 763947 | MOSFET APM8005KCTRG 6A 80V SOP-8 | |
| R823 | 061G0603000 FF | RST CHIPR MAX0R01 1/10W FENGHUA | |
| R823 | 061G0603000 FY | RST CHIPR MAX 0R01 1/10W YAGEO | |
| R807 | 061G0603100 JF | RST CHIPR 10 OHM 5% 1/10W FENGHUA | |
| R814 | 061G0603100 JF | RST CHIPR 10 OHM 5% 1/10W FENGHUA | |
| R814 | 061G0603100 JY | RST CHIPR 10OHM 1/10W YAGEO | |
| R807 | 061G0603100 JY | RST CHIPR 10OHM 1/10W YAGEO | |
| R844 | 061G0603101 JF | RST CHIPR 100 OHM +-5% 1/10W FENGHUA | |
| R844 | 061G0603101 JI | RST 0603 100R 5% 1/10W TA-I | |
| R812 | 061G0603101 JT | RST CHIP 100R 1/10W 5% TZAI YUAN | |
| R812 | 061G0603101 JY | RST CHIPR 100 OHM +-5% 1/10W YAGEO | |
| R810 | 061G0603102 JT | RST CHIP 1K 1/10W 5% TZAI YUAN | |
| R810 | 061G0603102 JY | RST CHIPR 1KOHM +-5% 1/10W YAGEO | |
| R806 | 061G0603103 JT | RST CHIP 10K 1/10W 5% TZAI YUAN | |
| R813 | 061G0603103 JT | RST CHIP 10K 1/10W 5% TZAI YUAN | |
| R813 | 061G0603103 JY | RST CHIPR 10KOHM +-5% 1/10W YAGEO | |
| R806 | 061G0603103 JY | RST CHIPR 10KOHM +-5% 1/10W YAGEO | |
| R809 | 061G0603104 JT | RST CHIP 100K 1/10W 5% TZAI YUAN | |
| R809 | 061G0603104 JY | RST CHIPR 100KOHM 1/10W YAGEO | |
| R805 | 061G0603124 JT | RST CHIP 120K 1/10W 5% TZAI YUAN | |
| R805 | 061G0603124 JY | RST CHIPR 120KOHM 1/10W YAGEO | |
| R804 | 061G06032002FF | RST CHIPR 20KOHM +-1% 1/10W FENGHUA | |
| R804 | 061G06032002FY | RST CHIP 20K 1/10W 1% | |
| R824 | 061G06033302FF | RST CHIPR 33K OHM +-1% 1/10W FENGHUA | |
| R824 | 061G06033302FY | RST CHIPR 33KOHM 1/10W YAGEO | |
| R822 | 061G0805105 JF | RST CHIPR 1M OHM +- 5% 1/8W FENGHUA | |
| R822 | 061G0805105 JT | RST CHIP 1M 1/8W 5% TZAI YUAN | |
| R826 | 061G0805109 JF | RST CHIPR 1 OHM +- 5% 1/8W FENGHUA | |
| R827 | 061G0805109 JF | RST CHIPR 1 OHM +- 5% 1/8W FENGHUA | |
| R828 | 061G0805109 JF | RST CHIPR 1 OHM +- 5% 1/8W FENGHUA | |
| R829 | 061G0805109 JF | RST CHIPR 1 OHM +- 5% 1/8W FENGHUA | |
| R826 | 061G0805109 JY | RST CHIP 1R 1/8W 5% YAGEO | |

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| R827 | 061G0805109 JY | | RST CHIP 1R 1/8W 5% YAGEO | |
| R828 | 061G0805109 JY | | RST CHIP 1R 1/8W 5% YAGEO | |
| R829 | 061G0805109 JY | | RST CHIP 1R 1/8W 5% YAGEO | |
| R825 | 061G1206000 JF | | RST CHIPR MAX0R05 1/4W FENGHUA | |
| R825 | 061G1206000 JY | | RST CHIPR MAX0R05 1/4W YAGEO | |
| R801 | 061G1206308 JF | | RST CHIPR 0.3 OHM +-5% 1/4W FENGHUA | |
| R802 | 061G1206308 JF | | RST CHIPR 0.3 OHM +-5% 1/4W FENGHUA | |
| R846 | 061G1206308 JF | | RST CHIPR 0.3 OHM +-5% 1/4W FENGHUA | |
| C808 | 065G060310131J | M | CAP CHIP 0603 100PF J 50V NPO | |
| C814 | 065G060310131J | M | CAP CHIP 0603 100PF J 50V NPO | |
| C816 | 065G060310232K | F | CAP CHIP 0603 1NF K 50V X7R | |
| C805 | 065G060347412K | Y | CAP CHIP 0.47UF 16V +/-10% X7R | |
| C801 | 065G080510432K | F | CAP CHIP 0805 0.1UF K 50V X7R | |
| C803 | 065G080510432K | F | CAP CHIP 0805 0.1UF K 50V X7R | |
| C810 | 065G080510432K | F | CAP CHIP 0805 0.1UF K 50V X7R | |
| C806 | 065G080522522K | Y | NO-SUGGEST CAP 0805 2.2UF 10% 25V X7R | |
| C807 | 065G080522525K | T | CAP CHIP 0805 2.2UF K 25V X5R | |
| ZD801 | 093G 60S907 | T | SCHOTTKY B3100B 3A 100V SMB | |
| ZD801 | 093G 60S932 | T | SCHOTTKY SK310B R4 3A 100V DO-214AA | |
| CN803 | 311GF100C06ADH | | FFC CONN 1.0MM 6P | |
| E715 | 715G4219P02000004S | | CONVERTER BOARD PCB | |
| R855 | 061G0603000 JF | | RST CHIPR MAX 0R05 1/10W FENGHUA | |
| R854 | 061G0603000 JF | | RST CHIPR MAX 0R05 1/10W FENGHUA | |
| L801 | 073G253S 98 DN | | SMD CHOKE 47UH 20% 0.064R LZ.29470.B2P | |
| R855 | 061G0603000 JI | | RST 0603 0.05R MAX 1/10W TA-I | |
| R854 | 061G0603000 JI | | RST 0603 0.05R MAX 1/10W TA-I | |
| R855 | 061G0603000 JT | | RST CHIP MAX 0R05 1/10W TZAI YUAN | |
| R854 | 061G0603000 JT | | RST CHIP MAX 0R05 1/10W TZAI YUAN | |
| R801 | 061G1206308 JI | | RST CHIPR 0.3 OHM +-5% 1/4W 1206 | |
| R802 | 061G1206308 JI | | RST CHIPR 0.3 OHM +-5% 1/4W 1206 | |
| R846 | 061G1206308 JI | | RST CHIPR 0.3 OHM +-5% 1/4W 1206 | |
| R825 | 061G1206000 JI | | RST 1206 MAX0R05 5% 1/4W | |
| E715 | 715G4219P02000004M | | CONVERTER BOARD PCB | 2nd source |