

Service Service Service



919Pz



919Sz&919Vz

Service Manual

Horizontal Frequency
30-80 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	Customer Model	TPV Model Name
A00	Sep.16.2010	Initial release	919Pz	T9AHMJDBK1K3DN
				T9AHMJDMKASDDN
			919Sz	T9AHMJDBK1KPAN
				T9AHMJDMK1SDAN
			919Vz	T9AHMJDBK1K2DN
				T9AHMJDLK13ADN
A01	Nov.08.2010	Add new model	919Vz	T9AHMJDTKA1RDN
A02	Dec.02.2010	Add new model	919Vz	T9AHMJDLK13ADN
A03	Dec.14.2010	Add new models	919Pz	T9AGMJDBKNK3DN
			919Sz	T9AGMJDBKMKPAN
			919Vz	T9AGMJDBKMK2DN
A04	Jan.18.2011	Add new model	919Vz	T9AGMJDEKM6ADN
A05	Jan.27.2011	Add new model	919Vz	T9AHMJDEK16ADN
A06	Mar.29.2011	Add new model	919Vz	T9AGSODLKM3ADN
A07	Jul.20, 2011	Add new models	919PZ	T9BMSODBKNK3DN
			919Vz	T9AGSODEKMACDN
				T9BMSODBKAK2DN
				T9BMSODEKM6ADN
				T9BMSODLKM3ADN
A08	Sep.15.2011	Add new model	919SZ	T9BMSODBKMKPAN
A09	Nov.18,2011	Add new models	919VZ	T9BMSODTKM1RDN
			919VZ	T9AGMJDBKMK2D6

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 radiation 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

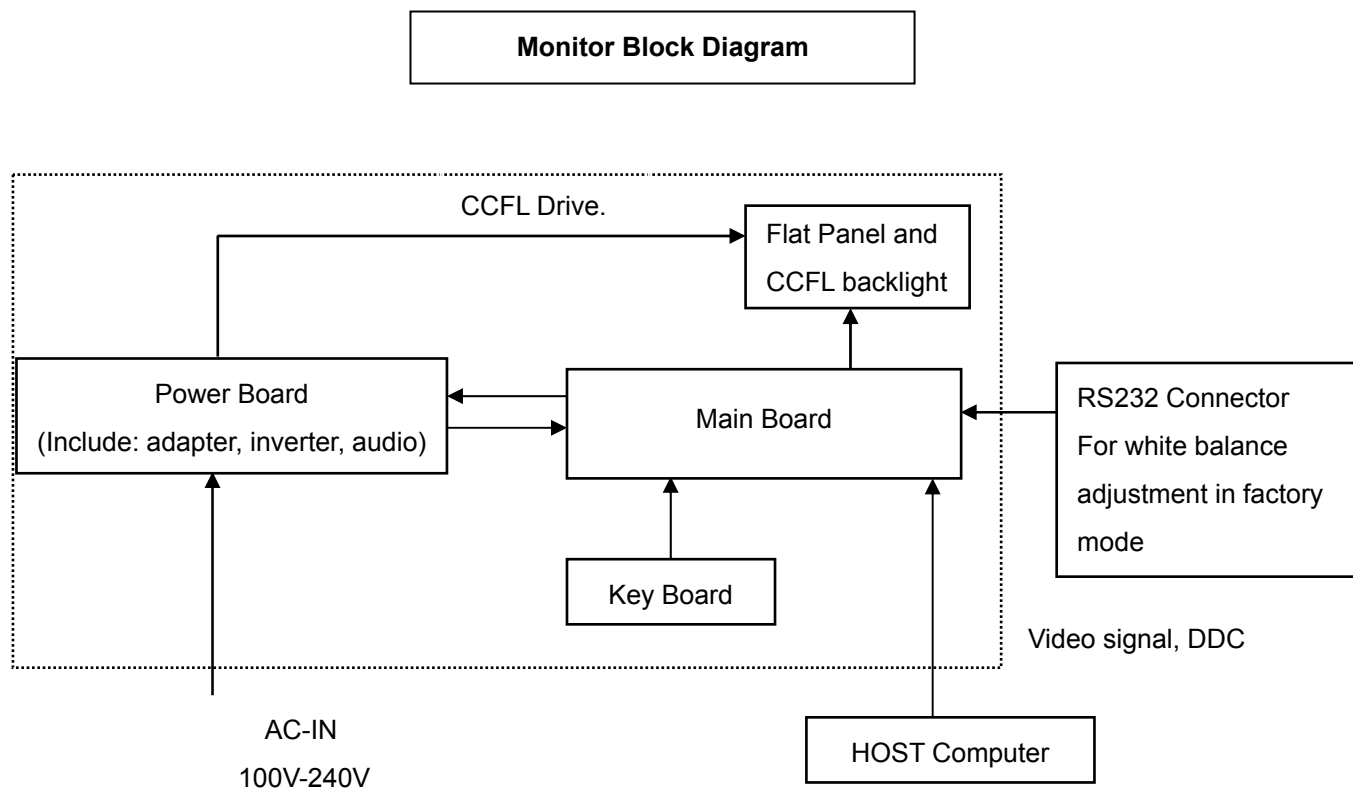
LCD Panel	Model number	919Pz
	Driving system	TFT Color LCD
	Viewable Image Size	48.3cm diagonal
	Pixel pitch	0.294mm(H) x 0.294mm(V)
	Video	R, G, B Analog Interface & Digital Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	135 MHz
Resolution	Horizontal scan range	30 kHz - 80 kHz
	Horizontal scan Size(Maximum)	376.32mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	301.056mm
	Optimal preset resolution	1280 x 1024 (60 Hz)
	Highest preset resolution	1280 x 1024 (75 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 < 37 W Standby <1 W
	Speakers	2 x 1W
Physical Characteristics	Connector Type	15-pin Mini D-Sub & DVI-D
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	415 mm
	Width	409 mm
	Depth	250 mm
	Weight (monitor only)	5.72 kg
	Weight (with packaging)	7.37 kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-25° to 55°
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 93% (non-condensing)
	Altitude:	
	Operating	0~ 3658m (0~ 12000 ft)
	Non-Operating	0~ 12192m (0~ 40000 ft)

LCD Panel	Model number	919Sz&919Vz
	Driving system	TFT Color LCD
	Viewable Image Size	48.3cm diagonal
	Pixel pitch	0.294mm(H) x 0.294mm(V)
	Video	R, G, B Analog Interface (for 919Sz) R, G, B Analog Interface & Digital Interface(for 919Vz)
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	135 MHz
Resolution	Horizontal scan range	30 kHz - 80 kHz
	Horizontal scan Size(Maximum)	376.32mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	301.056mm
	Optimal preset resolution	1280 x 1024 (60 Hz)
	Highest preset resolution	1280 x 1024 (75 Hz)
	Plug & Play	VESA DDC2B/CI
	Input Connector	D-Sub 15pin (for 919Sz)
		D-Sub 15pin & DVI-D (for 919Vz)
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM (for 919Sz)
		Analog: 0.7Vp-p(standard), 75 OHM, Positive & DVI-D Digital Interface (TMDS) (for 919Vz)
	Power Source	100~240VAC, 50/60Hz
Physical Characteristics	Power Consumption	Active < 37 W
		Standby < 1 W
	Speakers	2 x 1W
	Connector Type	15-pin Mini D-Sub & DVI-D (DVI-D for 919Vz)
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	409.5 mm
	Width	409 mm
	Depth	210 mm
Environmental	Weight (monitor only)	3.78 kg
	Weight (with packaging)	5.32 kg
	Temperature:	
	Operating	0° to 40°
	Non-Operating	-25°to 55°
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 93% (non-condensing)
	Altitude:	
	Operating	0~ 3658m (0~ 12000 ft)
	Non-Operating	0~ 12192m (0~ 40000 ft)

2. LCD Monitor Description

The LCD monitor will contain a main board, a power 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.



3. Operating Instructions

3.1 General Instructions

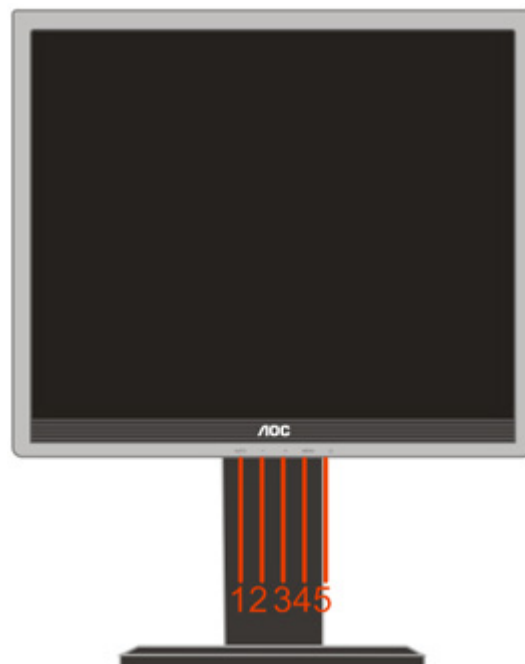
Press the power button to turn the monitor on or off. The other control knobs are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

* 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

For 919Pz



1 Source(Auto) / Exit

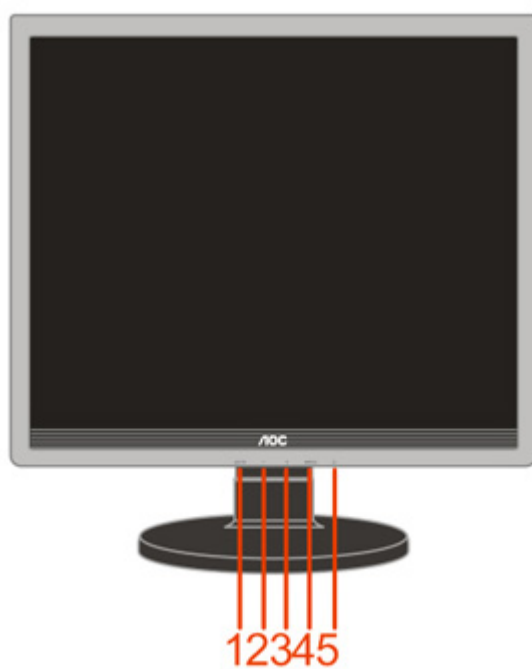
2 Eco mode / -

3. Volume / +

4. Menu / Enter

5. Power Button & Indicator

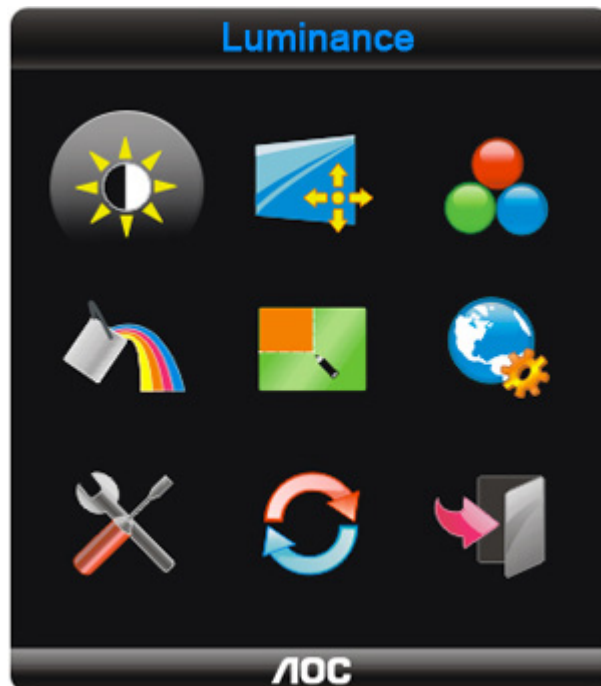
For 919Sz&919Vz



- 1 Source(Auto) / Exit
- 2 Eco mode / -
- 3. Volume / +
- 4. Menu / Enter
- 5. Power Button & Indicator

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 hot key: Press the Eco key continuously to select the Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).
- Volume adjustment hot key: When there is no OSD, press Volume (+) to active volume adjustment bar, press - or + to adjust volume (Only for the models with speakers).
- 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/Source button continuously about 2 second to do auto configure.



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 vertical position of the picture.

	V.Position	0-100	Adjust the horizontal 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 vertical position of OSD
	V.Position	0-100	Adjust the horizontal 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
		Analog	Select Analog Sigal Source as Input
		Digital	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	0~24hours	Select timing to turn off the monitor.
	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

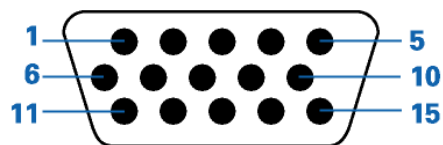
Notes:

- 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 disalbe to adjust.
- 3) One of DCR, Color Boost, and Picture Boost functions is active, the other two functions is turned off accordingly.

4. Input/Output Specification

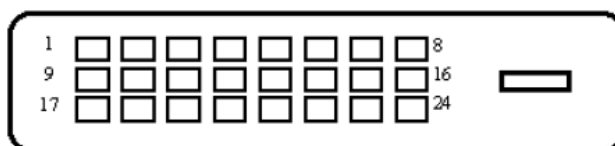
4.1 Input Signal Connector

Analog connector



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

DVI connector (FOR 919Pz&919Vz)



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	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

Stand	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
VGA	640×480@60Hz DMT	31.469	59.940
Mac-mode	640×480@67Hz MAC	35.000	66.667
VGA	640×480@72Hz DMT	37.861	72.809
VGA	640×480@75Hz DMT	37.500	75.000
Dos-mode	720×400@70Hz DOS	31.469	70.087
SVGA	800×600@56Hz DMT	35.156	56.250
SVGA	800×600@60Hz DMT	37.879	60.317
SVGA	800×600@72Hz DMT	48.077	72.188
SVGA	800×600@75Hz DMT	46.875	75.000
Mac-mode	832×624@75Hz MAC	49.725	74.500
XGA	1024×768@60Hz DMT	48.363	60.004
XGA	1024×768@70Hz DMT	56.476	70.069
IBM-mode	1024×768@72Hz	57.500	72.074
XGA	1024×768@75Hz DMT	60.023	75.029
Mac-mode	1024×768@75Hz MAC	60.241	74.927
SXGA	1280×1024@60Hz DMT	63.981	60.020
SXGA	1280×1024@75Hz DMT	79.976	75.025

4.3 Panel Specification

4.3.1 General Features

HannStar Display model HSD190MEN4-A* is a color active matrix thin film transistor (TFT) liquid crystal display (LCD) that uses amorphous silicon TFT as a switching device. This model is composed of a TFT LCD panel, the voltage reference, common voltage, DC-DC converter, column, and row driver circuit. This TFT LCD has a 19-inch diagonally measured active display area with SXGA resolution (1024 vertical by 1280 horizontal pixel array).

4.3.2 Display Characteristics

Item	Specification		Unit
Outline dimension	396 * 324 * 16.5(Typ)		mm
Display area	376.32 (H) x301.056 (V) (19.0" diagonal)		mm
Number of Pixel	1280(H) x 1024(V)		Pixels
Pixel pitch	0.294(H) x 0.294(V)		mm
Pixel arrangement	RGB Vertical Stripe		
Display color	16.7M (6-bits+Hi FRC)		
Color temperature	6500K		
Display mode	Normally white		
Surface treatment	Antiglare, Hard-Coating (3H)		
Weight	1860		g
Back-light	2-CCFLs, Top & bottom edge side		
Input signal	2-ch LVDS		
Power consumption	System	3.5(Typ.)	W
	B/L	9.9(Typ.)	

4.3.3 Electrical Characteristics

TFT LCD Module:

Item	Symbol	Min.	Typ.	Max.	Unit
Voltage of power supply	V_{DD}	4.5	5.0	5.5	V
Current of power supply	I_{DD0}	650	750	850	mA
Vsync frequency	f_V	50	60	76	Hz
Hsync frequency	f_H	53.3	64	80	KHz
Frequency	f_{DCLK}	50	54	67.5	MHz
Input rush current	I_{RUSH}	--	--	3.0	A
Permissive power input ripple	VDDrp	--	--	200	mVp-p

Back-Light Unit

Item	Symbol	Min.	Typ.	Max.	Unit
Lamp current	IL	3.0	7.5	8.0	mA(rms)
Lamp voltage	VL	594	660	726	V(rms)
Frequency	fL	40	50	80	KHz
Operating Lifetime	Hr	40,000	--	--	Hour
Startup voltage	Vs	1400	--	--	V(rms)
		1650			

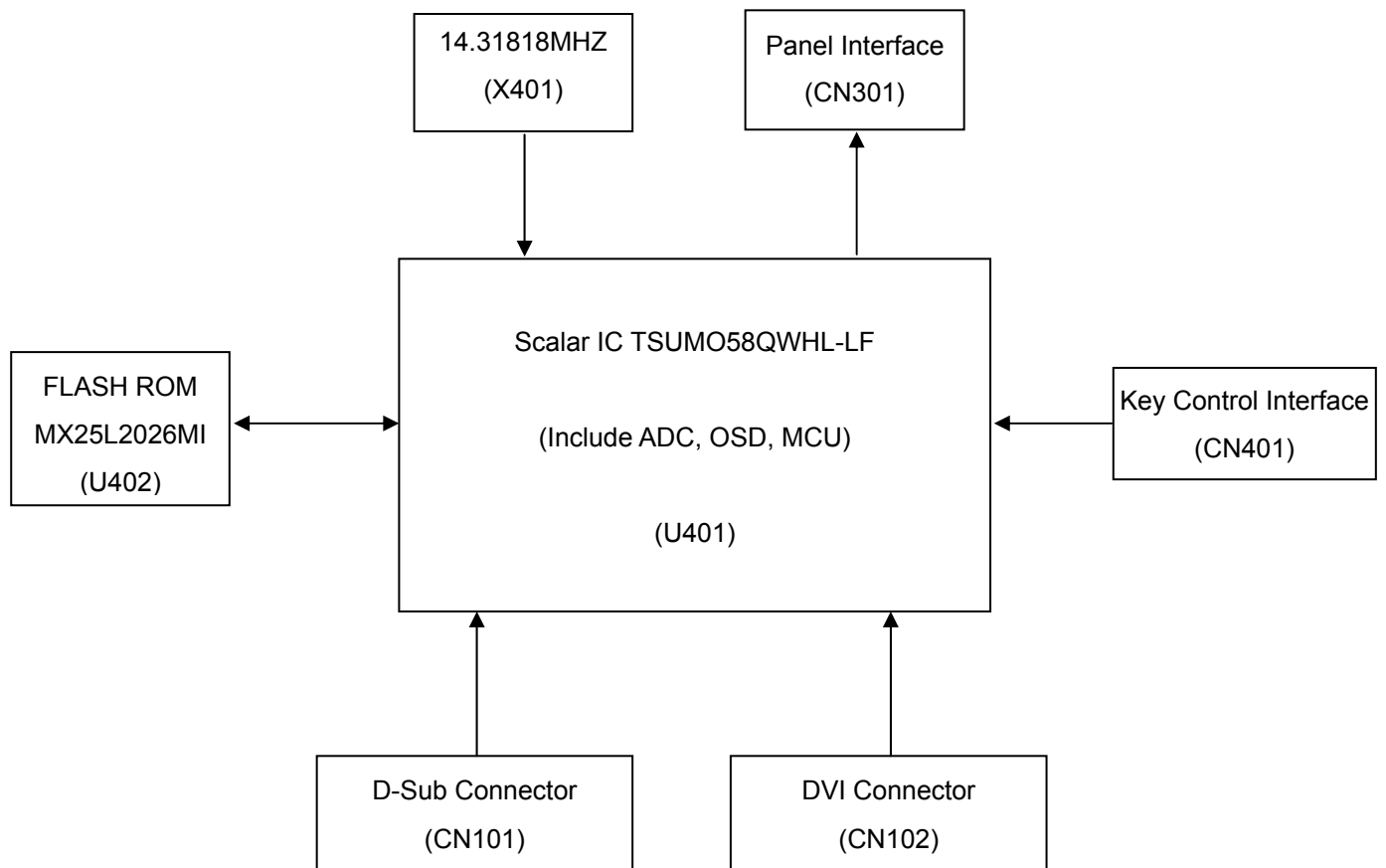
4.3.4 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Contrast		CR	$\Theta=0^{\circ}$ $\phi=0^{\circ}$ Normal viewing angle	800	1000	--	
Response time	Rising	TR +TF		--	5	10	msec
	Falling						
White luminance (center of screen)		Y_L		200	250	--	cd/m ²
Color chromaticity (CIE1931)	Red	R_x		-0.03	0.641	+0.03	
		R_y			0.337		
	Green	G_x			0.306		
		G_y			0.614		
	Blue	B_x			0.142		
		B_y			0.072		
	White	W_x	0.313				
		W_y	0.329				
Viewing angle	Hor.	Θ_L	CR>10	75	85	--	
		Θ_R		75	85	--	
	Ver.	Θ_H		65	75	--	
		Θ_L		75	85	--	
Viewing angle	Hor.	Θ_L	CR>5	75	85	--	
		Θ_R		75	85	--	
	Ver.	Θ_H		75	85	--	
		Θ_L		75	85	--	
Brightness uniformity		B_{UNI}	$\Theta=0^{\circ}$ $\phi=0^{\circ}$	75	--	--	%

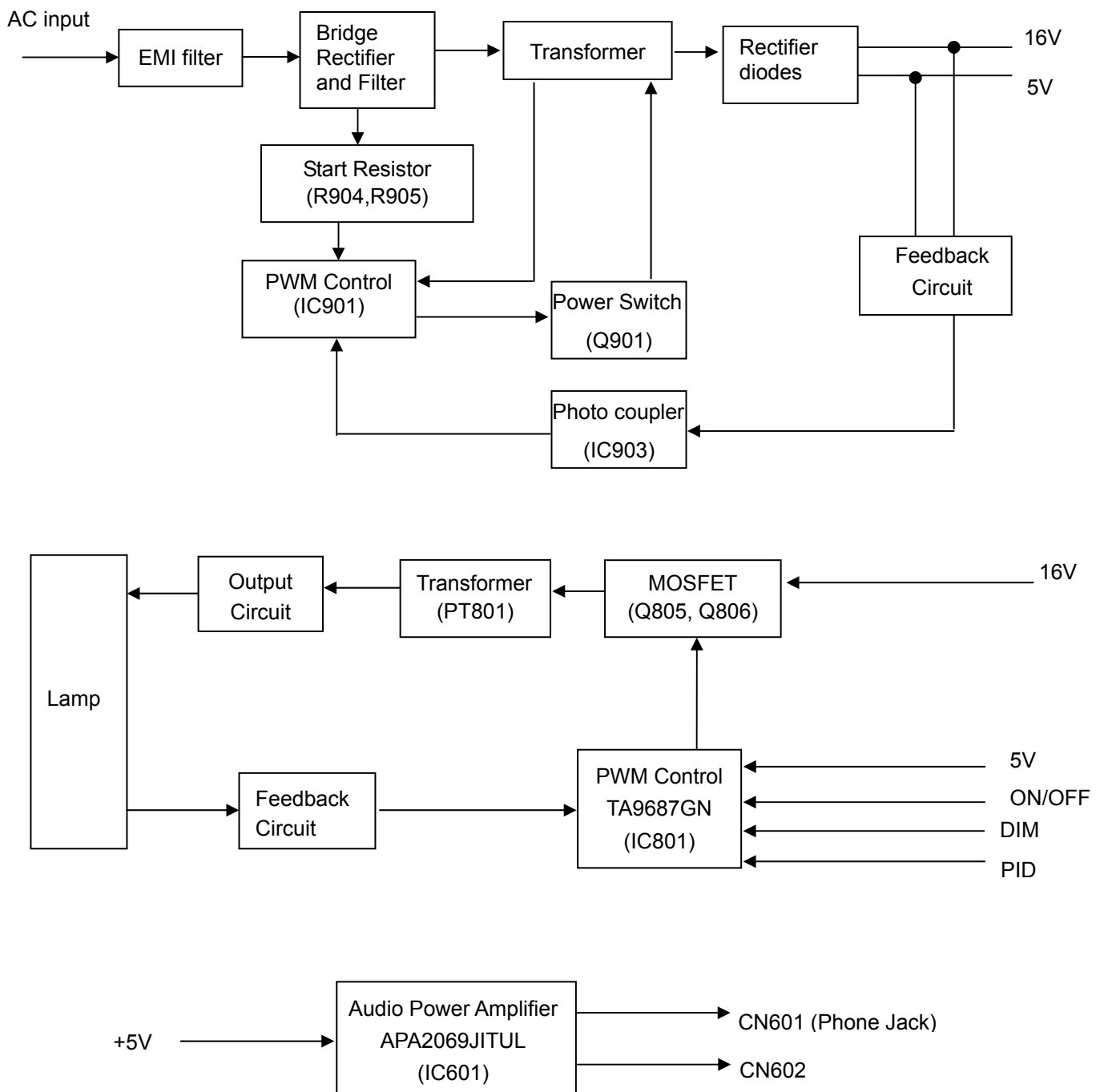
5. Block Diagram

5.1 Main Board

DVI for 919Pz&919Vz



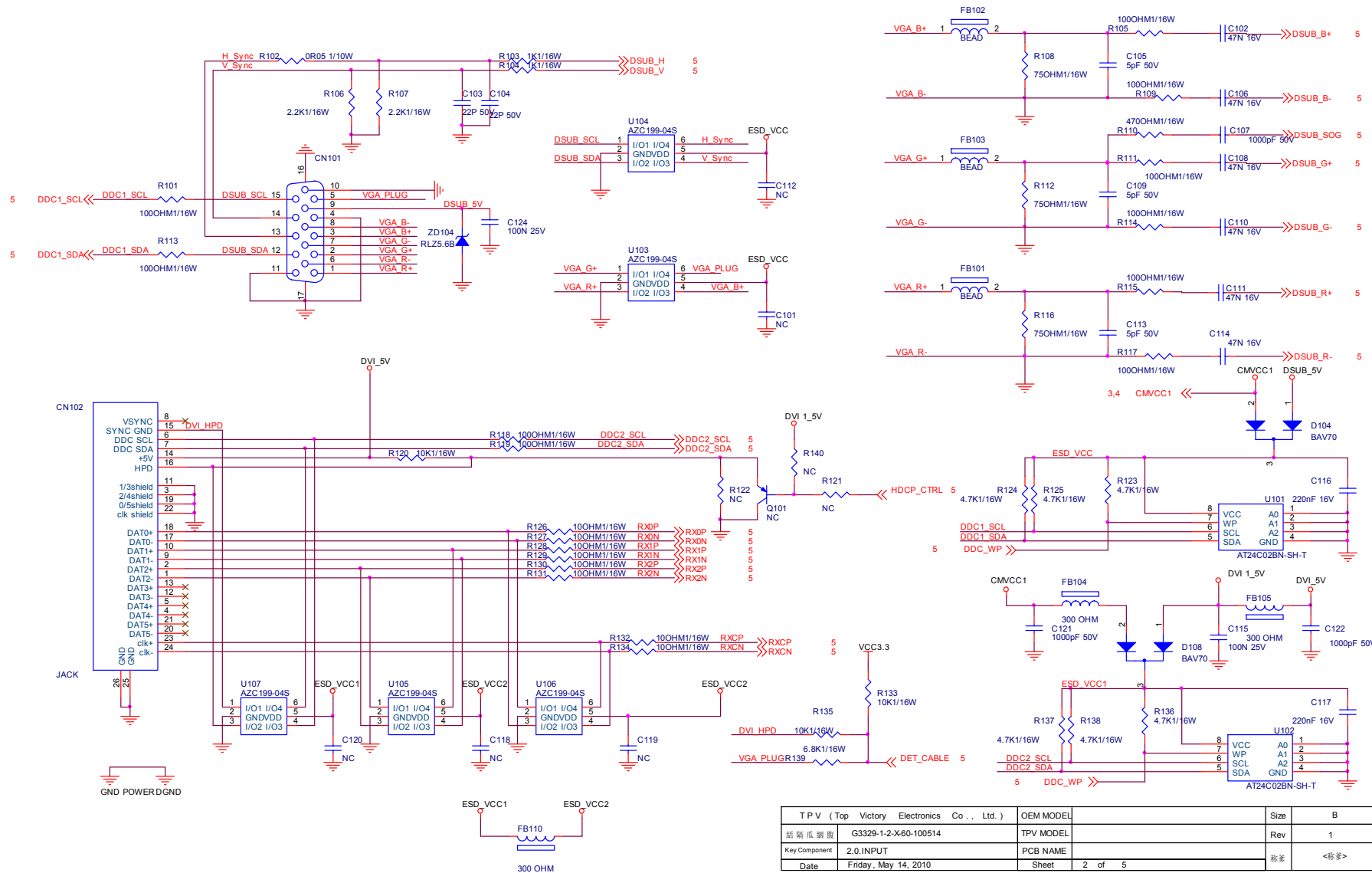
5.2 Power Board

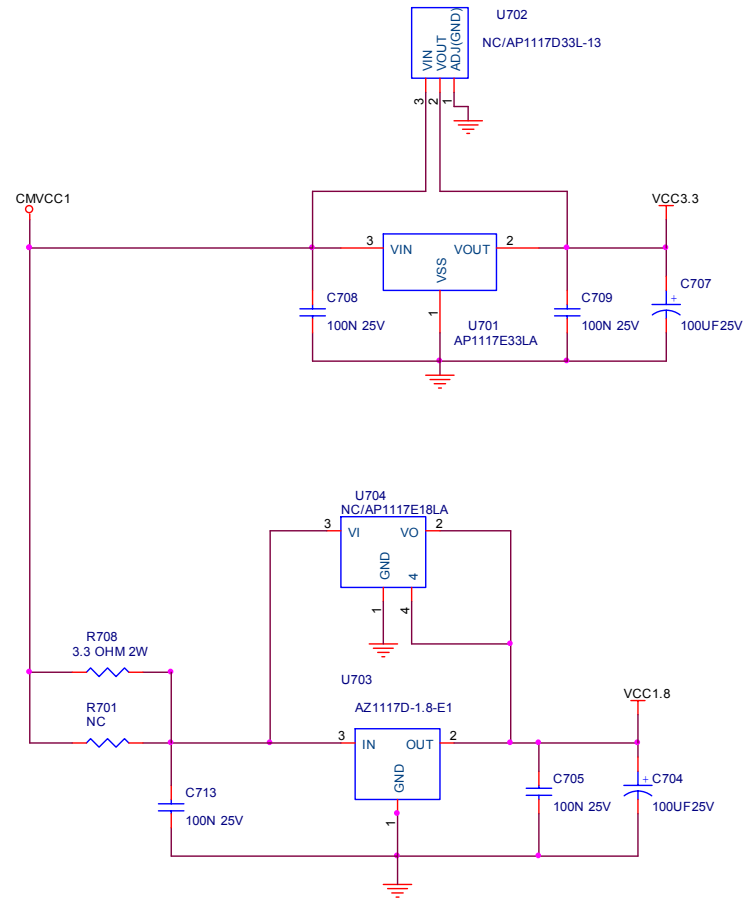
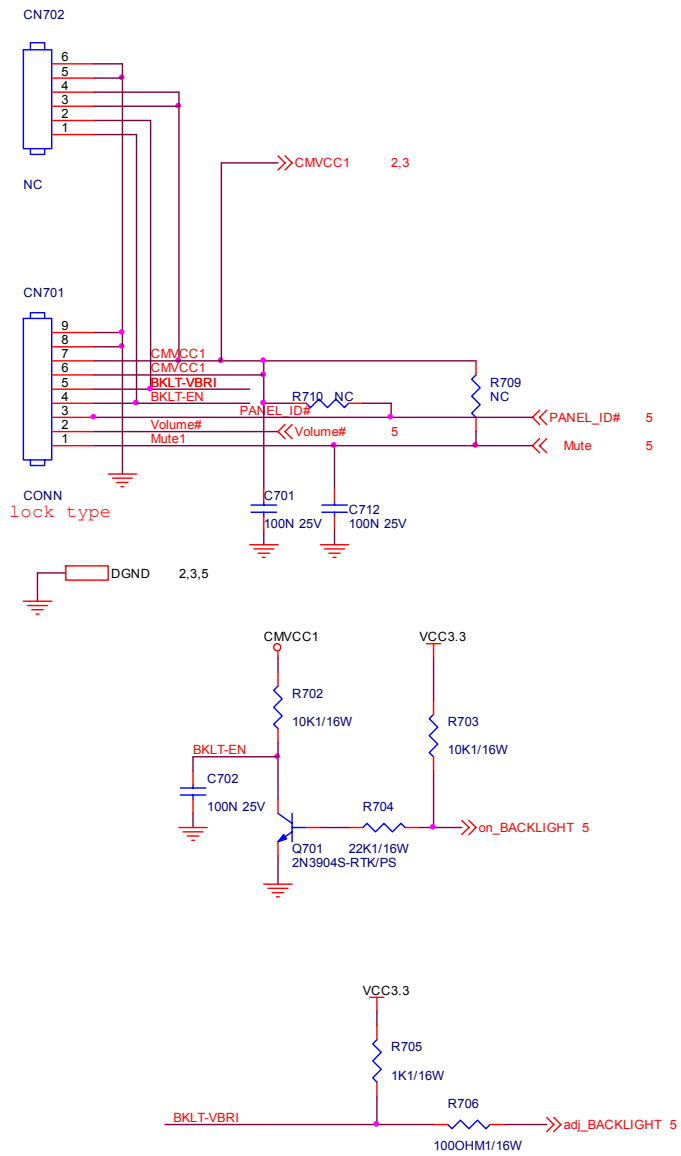


6. Schematic

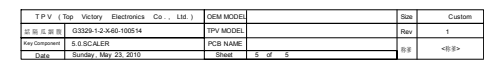
6.1 Main Board

715G3329 1 2
DVI for 919Pz&919Vz



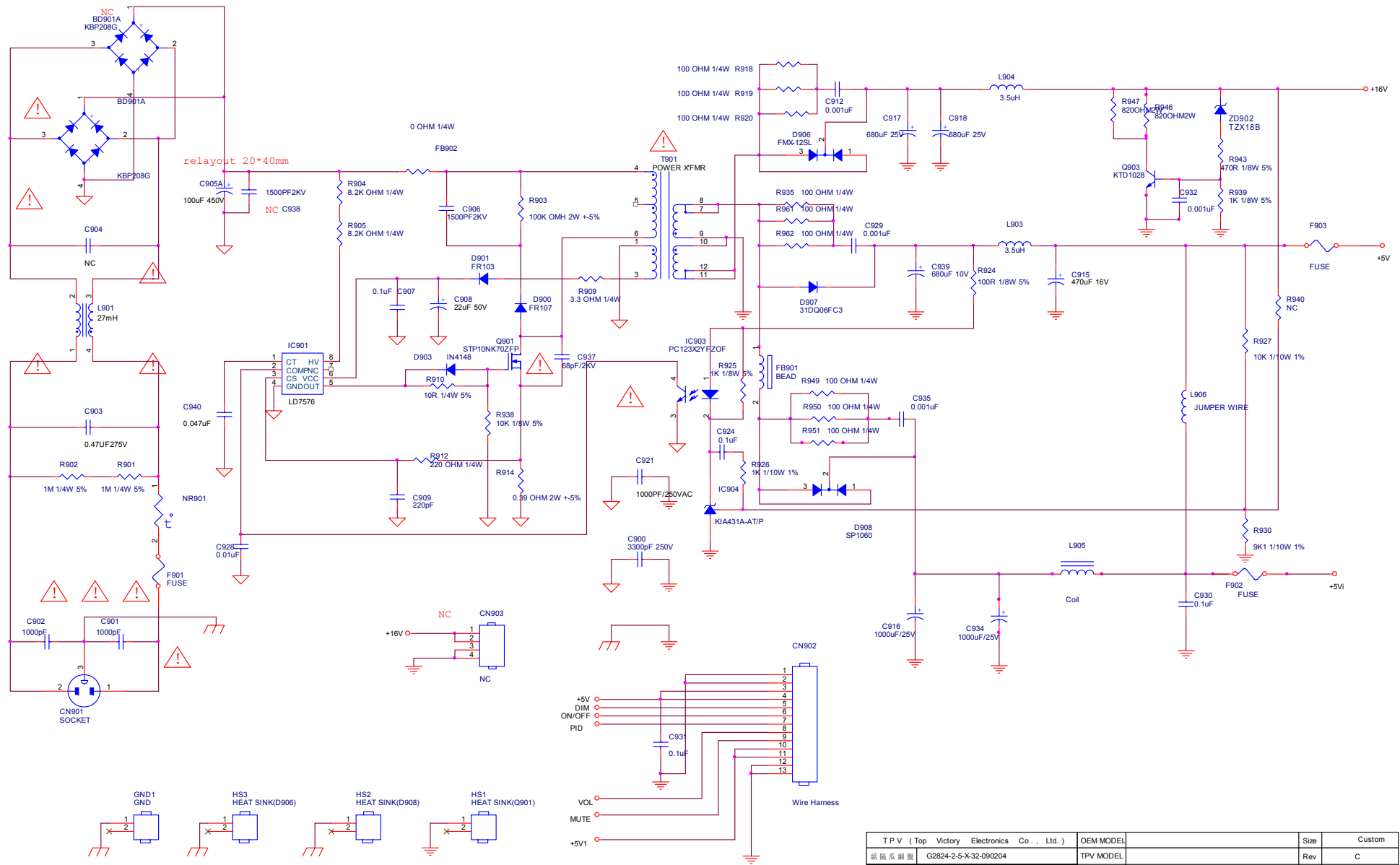


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL		Size	B
結構爪網膜	G3329-1-2-X-60-100514	TPV MODEL	Rev	1
Key Component	4.0 POWER	PCB NAME	称爹	<称爹>
Date	Friday, May 14, 2010	Sheet	4 of 5	

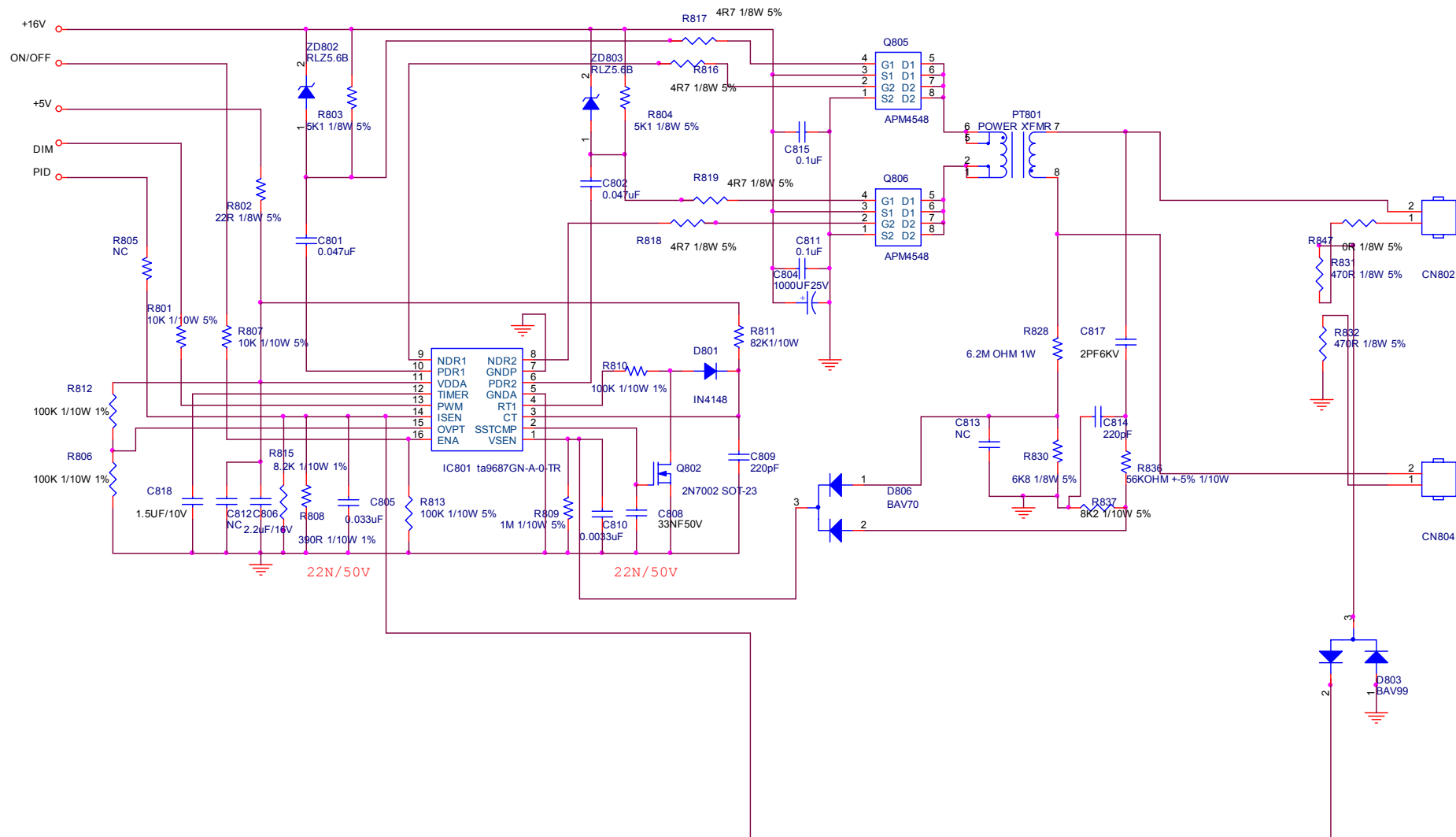


6.2 Power Board

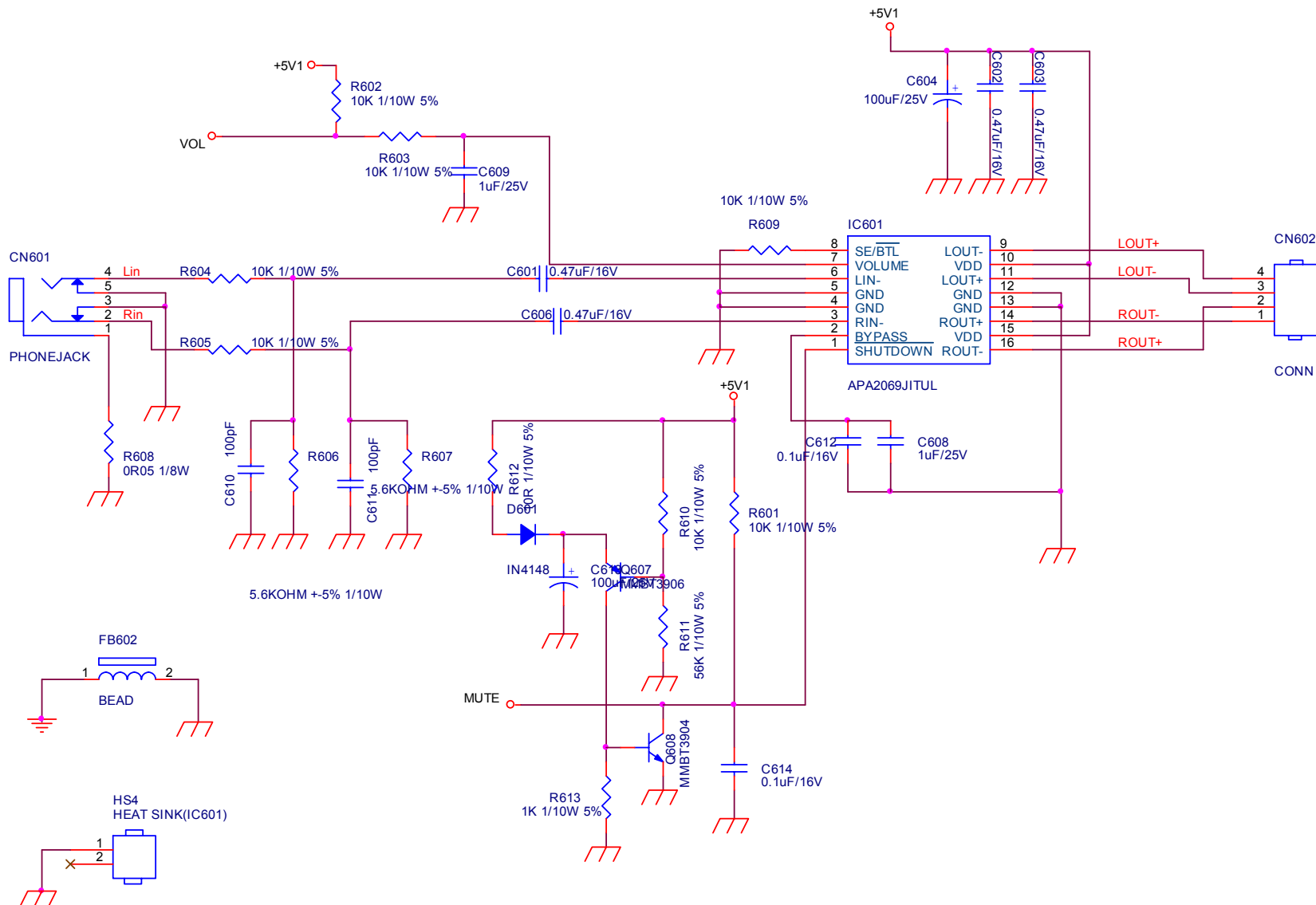
715G2824P0100A001S



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	Custom
攝隔底圖	G2824-2-5-X-32-090204	TPV MODEL	Rev C
Key Component	03.POWER	PCB NAME	715G2824-1-5
Date	Tuesday, May 18, 2010	Sheet	1 of 3
		称爹	ODM MODEL

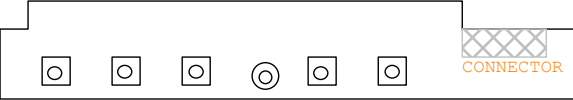
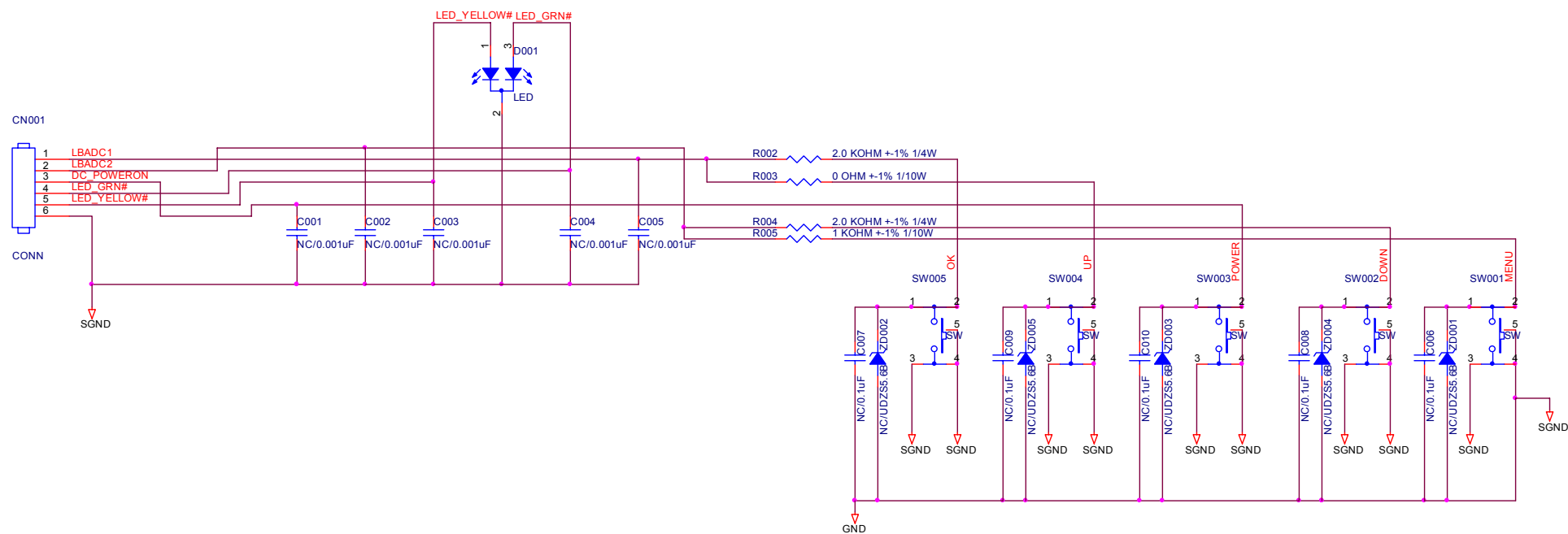


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL		Size	Custom
結隔瓜網腹	G2824-2-5-X-30-090205	TPV MODEL	Rev	C
Key Component	02.INVERTER	PCB NAME	715G2824-1-5	称爹
Date	Tuesday, May 18, 2010	Sheet	1 of 3	ODM MODEL



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	Custom
結構爪網膜	G2824-2A	TPV MODEL		Rev	C
Key Component	04.AUDIO	PCB NAME	715G2824-2A-5	称爹	ODM MODEL
Date	Tuesday , May 18, 2010	Sheet	4 of 4		

6.3 Key Board
715G2835 2

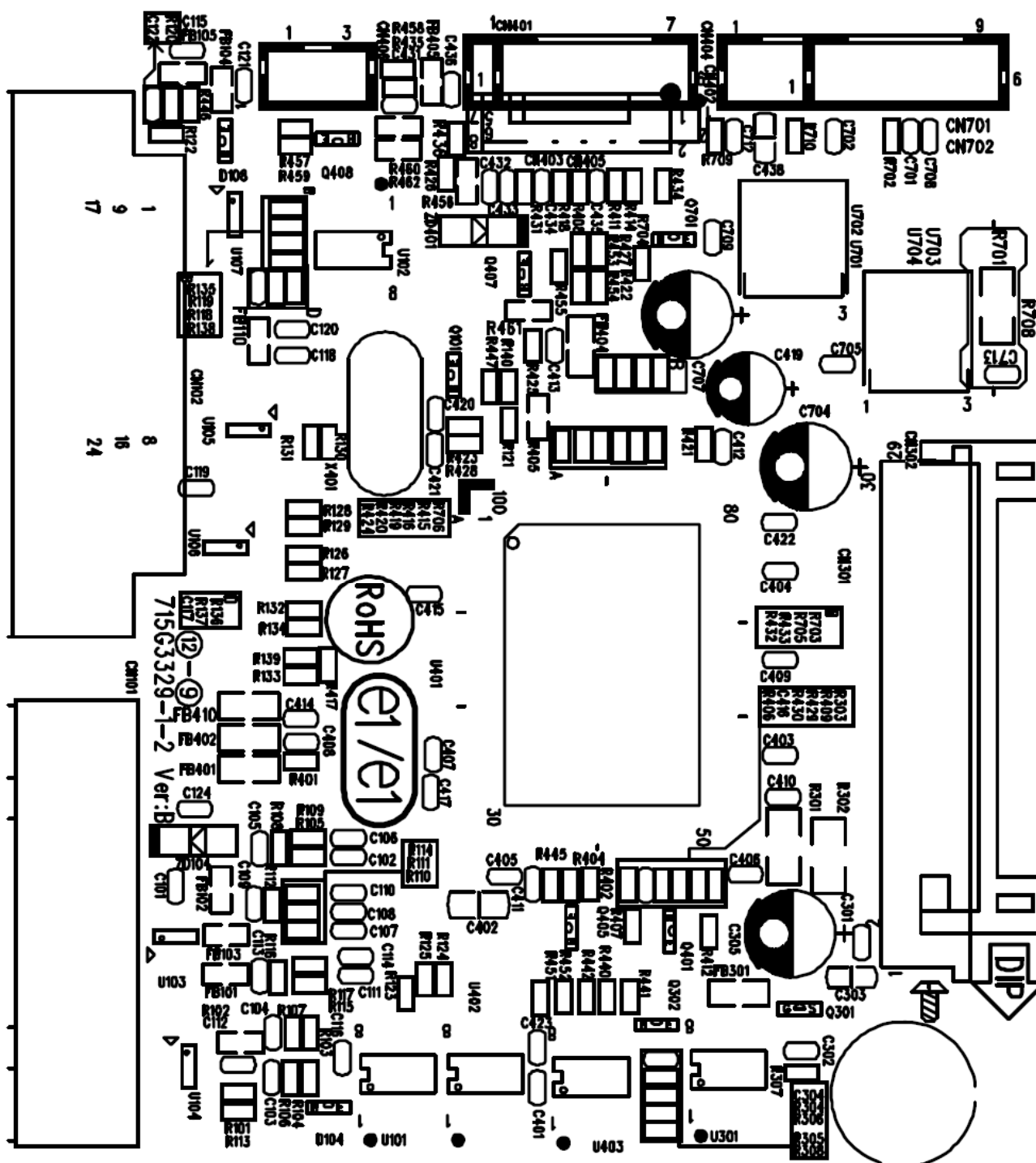


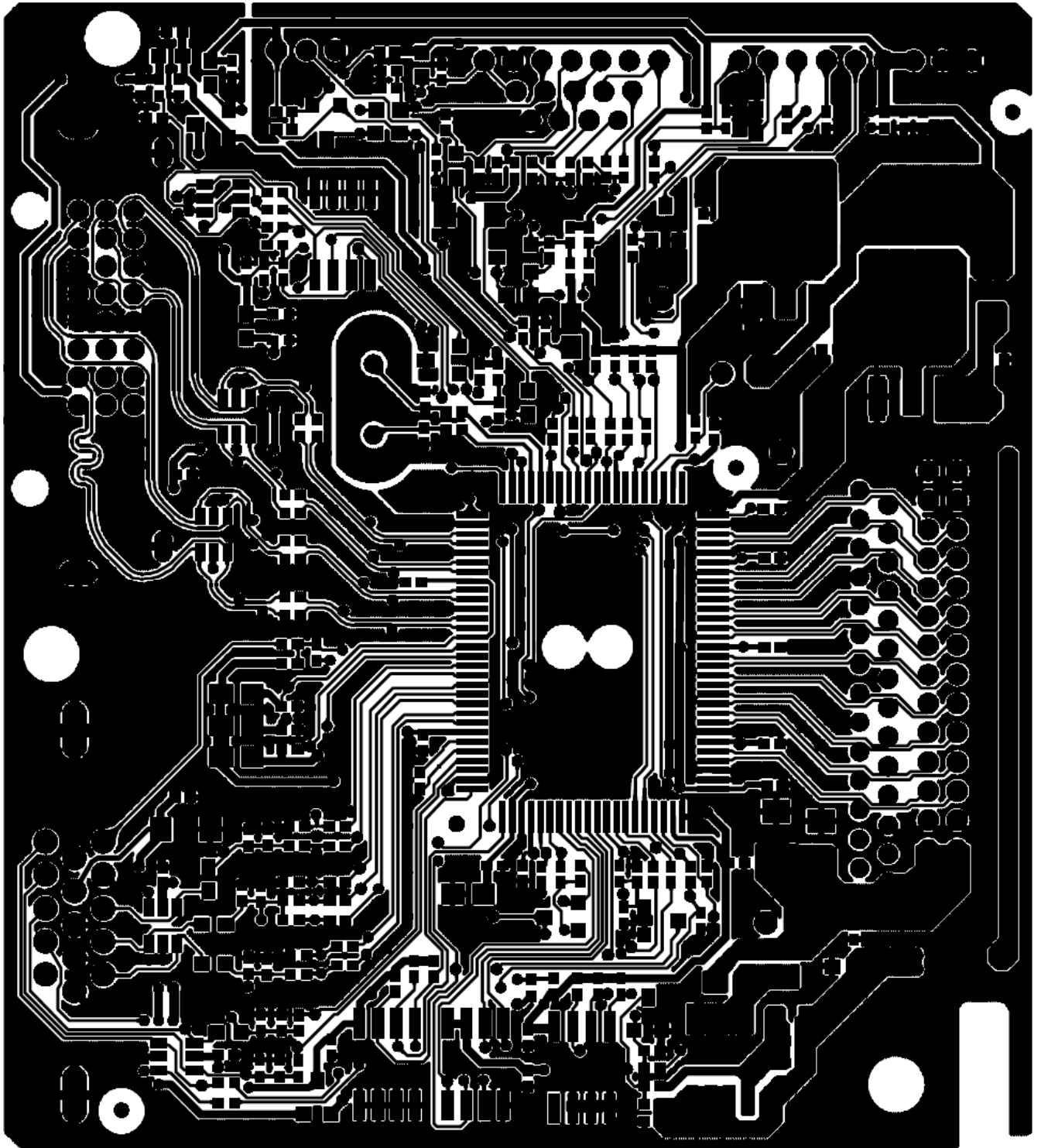
(Power) (MENU) (UP) (LED) (DOWN) (OK)

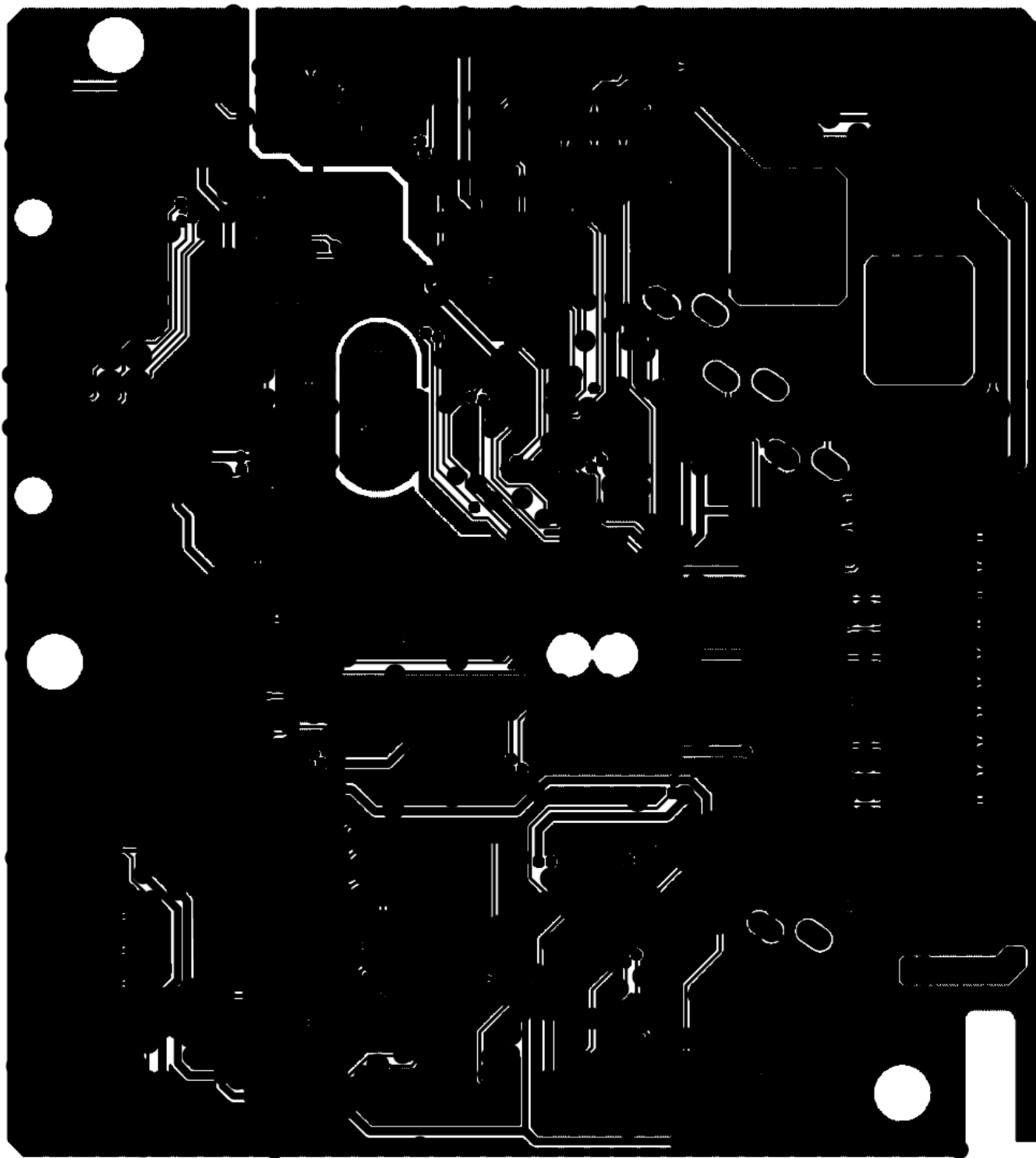


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL		Size	B
結構爪網膜	G2835-2	TPV MODEL	Rev	A
Key Component	key	PCB NAME	715G2835-2	称審
Date		Sheet	2 of 2	

715G3329 1 2

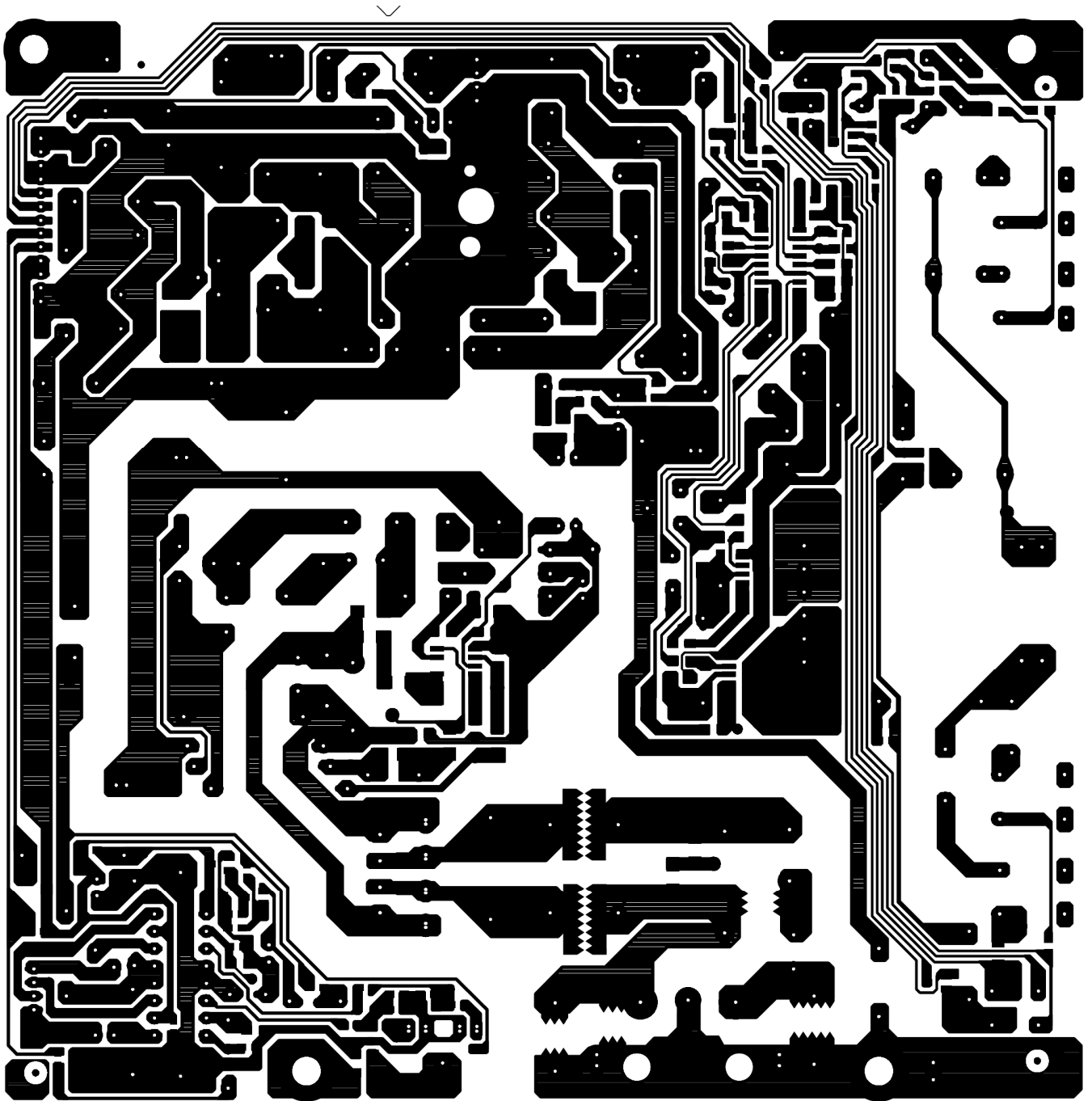


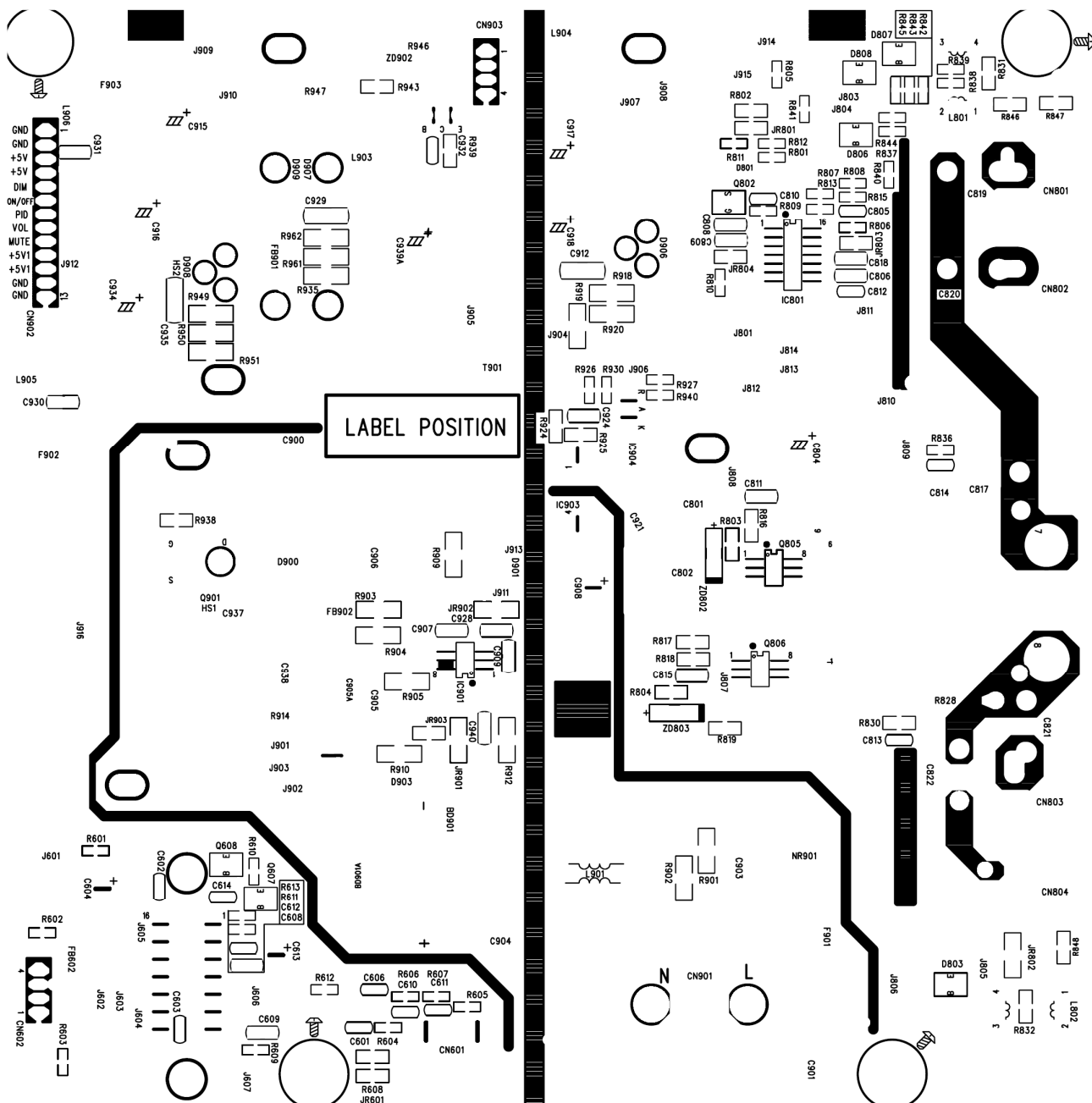




715G2824P0100A001S

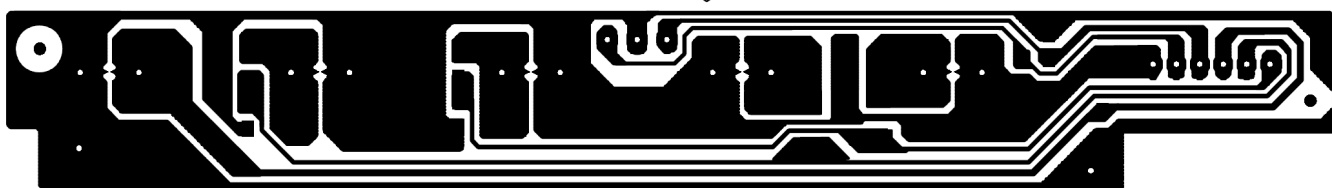
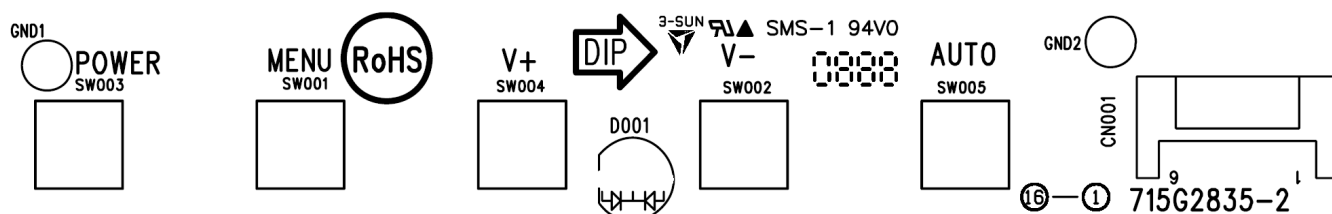






7.3 Key Board

715G2835 2



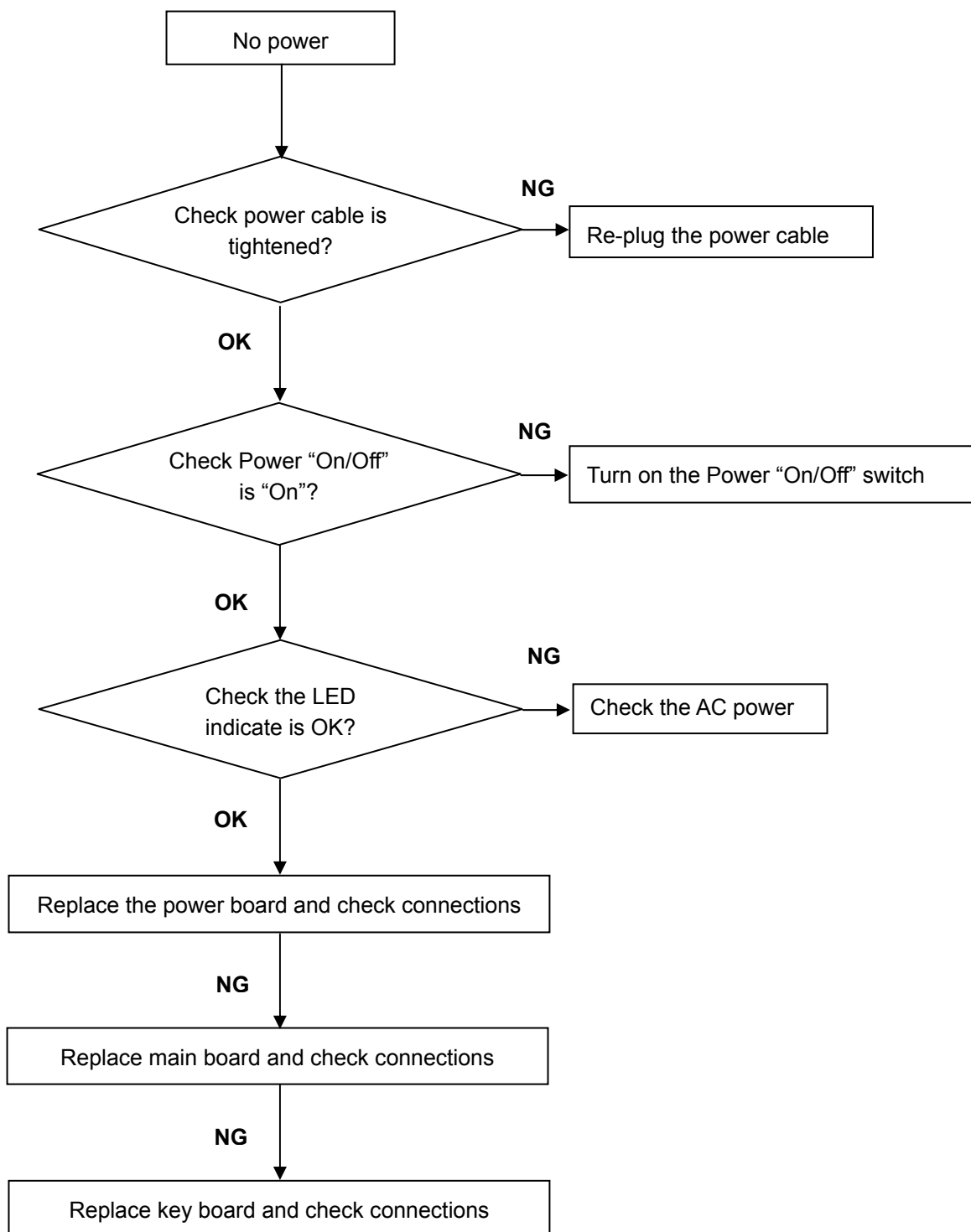
8. Maintainability

8.1 Equipments and Tools Requirement

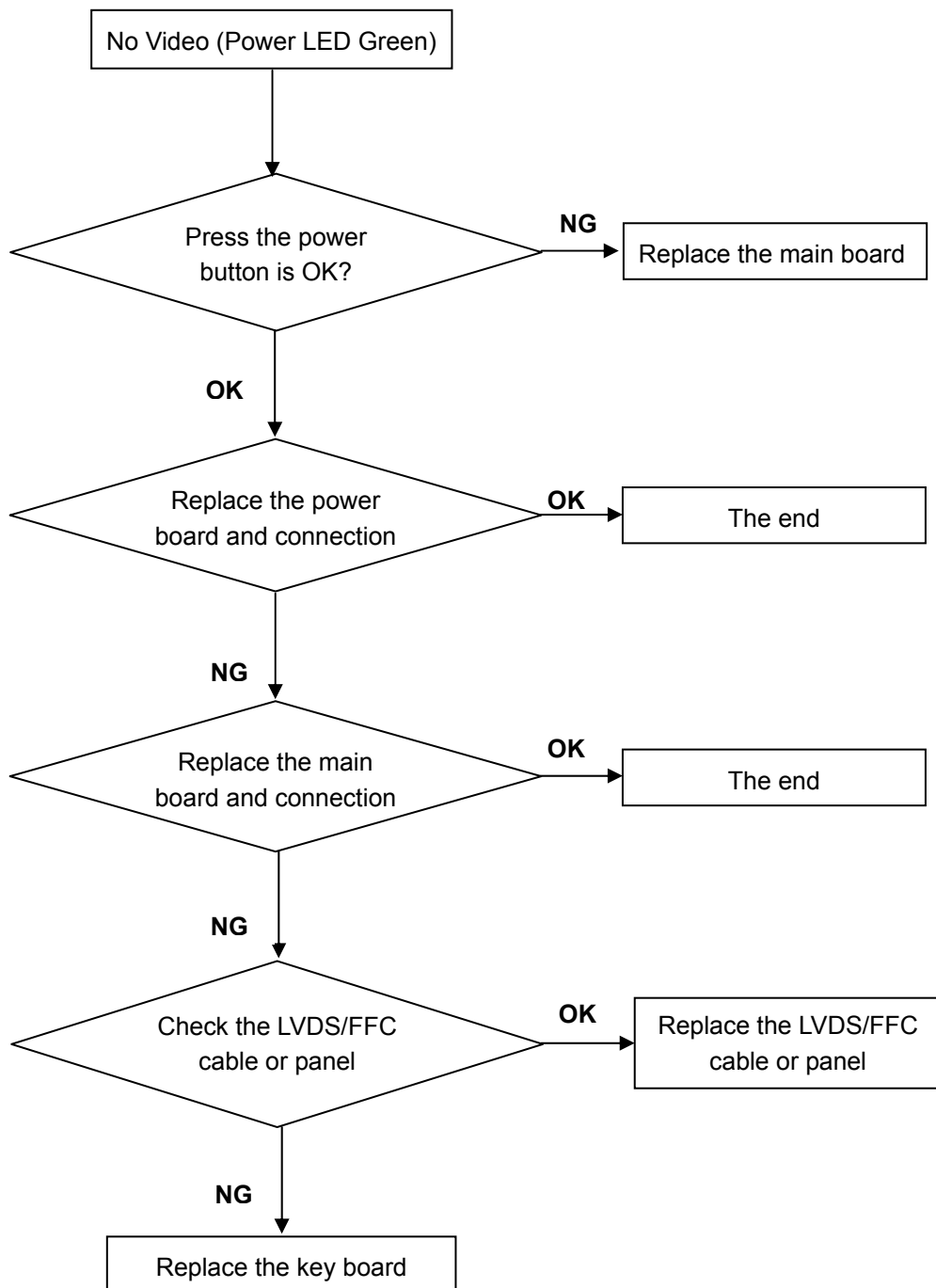
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

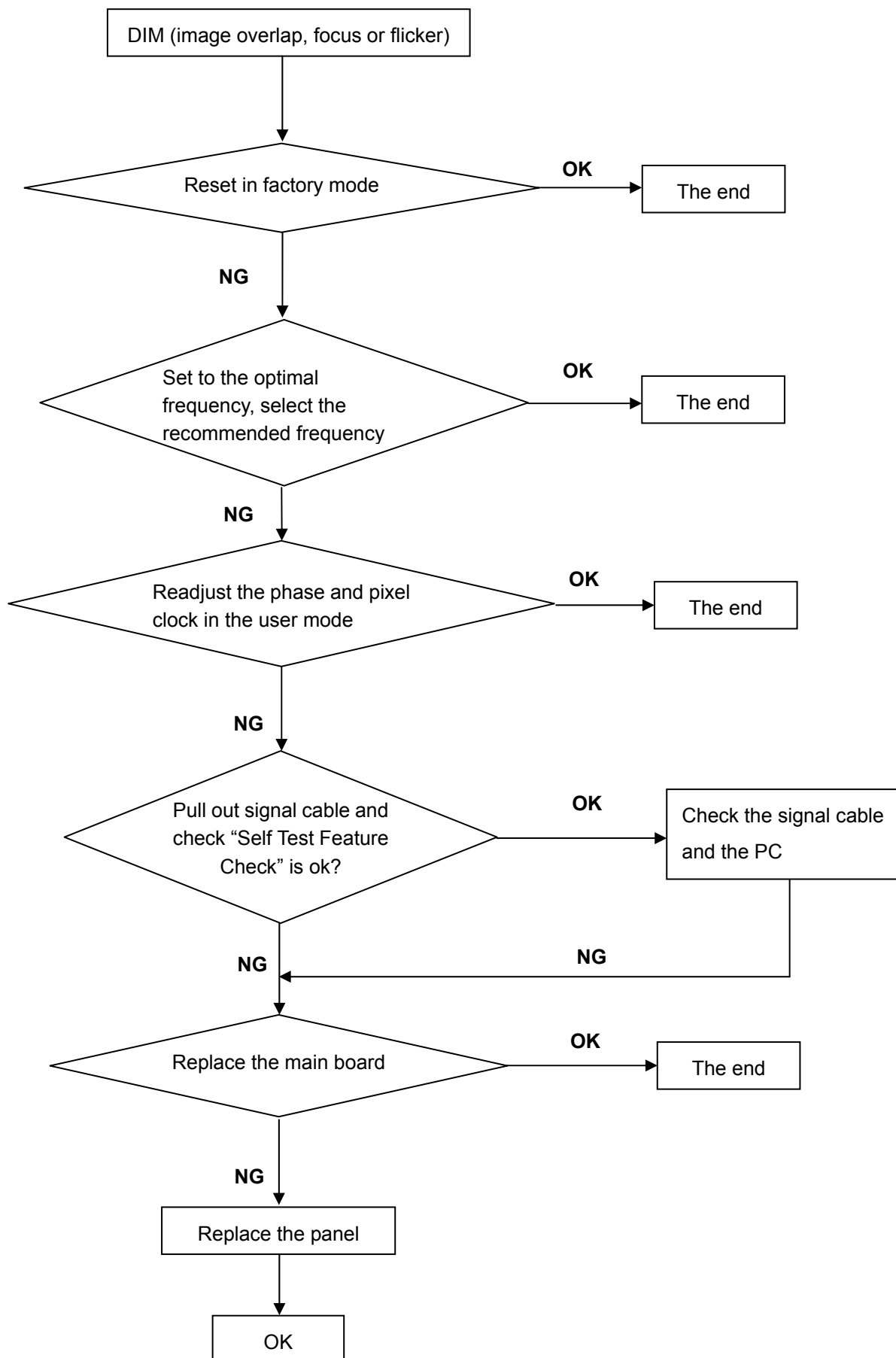
1. No Power



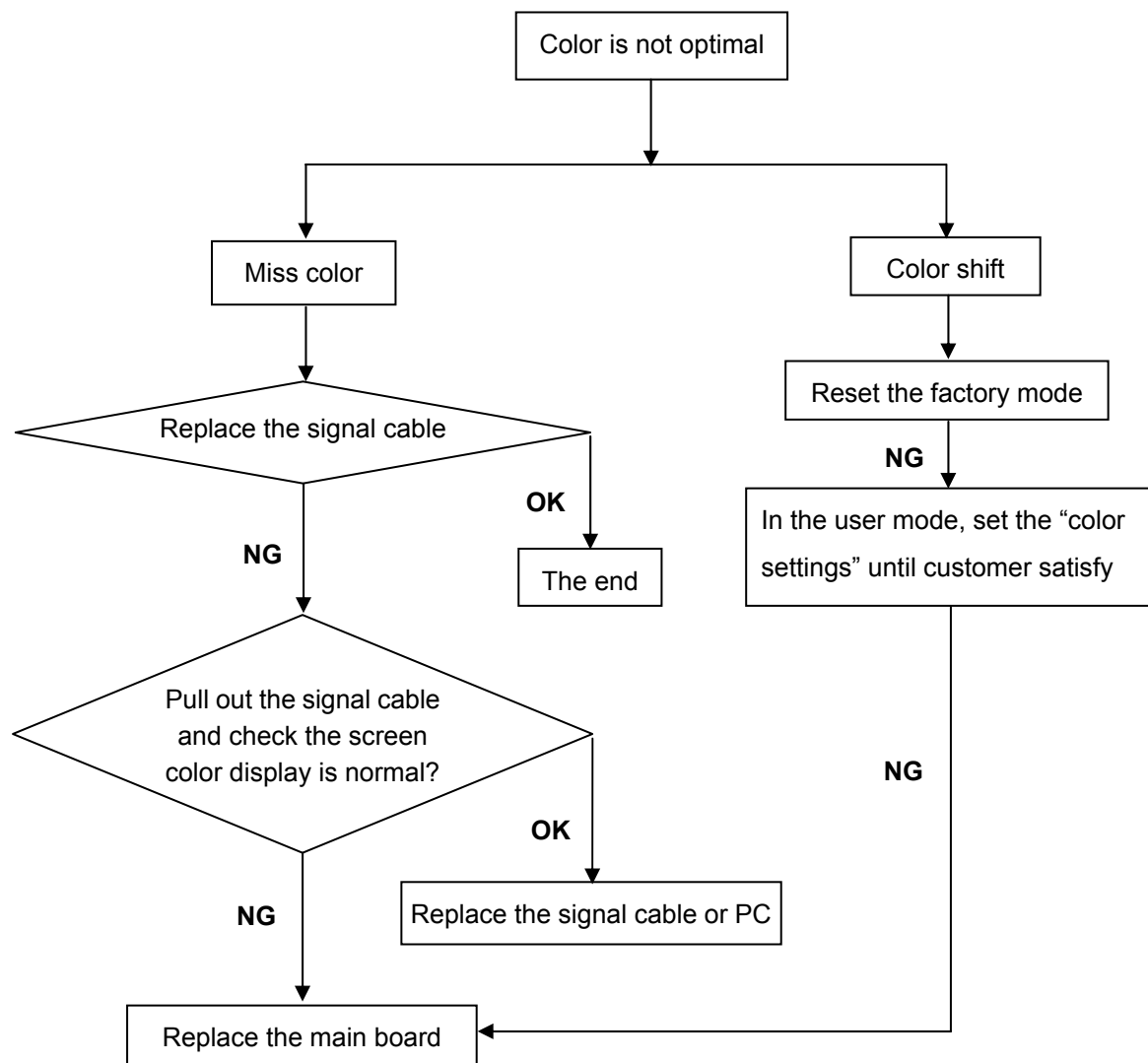
2. No Video (Power LED Green)



3. DIM



4. 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 simpl 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 .

2. Setting the color temp. you want

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

Warm color temp. parameter is $x = 313 \pm 30$, $y = 329 \pm 30$

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

Normal color temp. parameter is $x = 302 \pm 30$, $y = 318 \pm 30$

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

Cool color temp. parameter is $x = 283 \pm 30$, $y = 297 \pm 30$

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is $x = 313 \pm 30$, $y = 329 \pm 30$

3. Enter into the factory mode

Press “MENU” button, AC off and then AC on. You will enter into the factory mode.

4. 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 $x = 313 \pm 30$, $y = 329 \pm 30$
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 $=100 \pm 2$

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 $x = 302 \pm 30$, $y = 318 \pm 30$
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 $=100 \pm 2$

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 $x = 283 \pm 30$, $y = 297 \pm 30$
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 $=100 \pm 2$

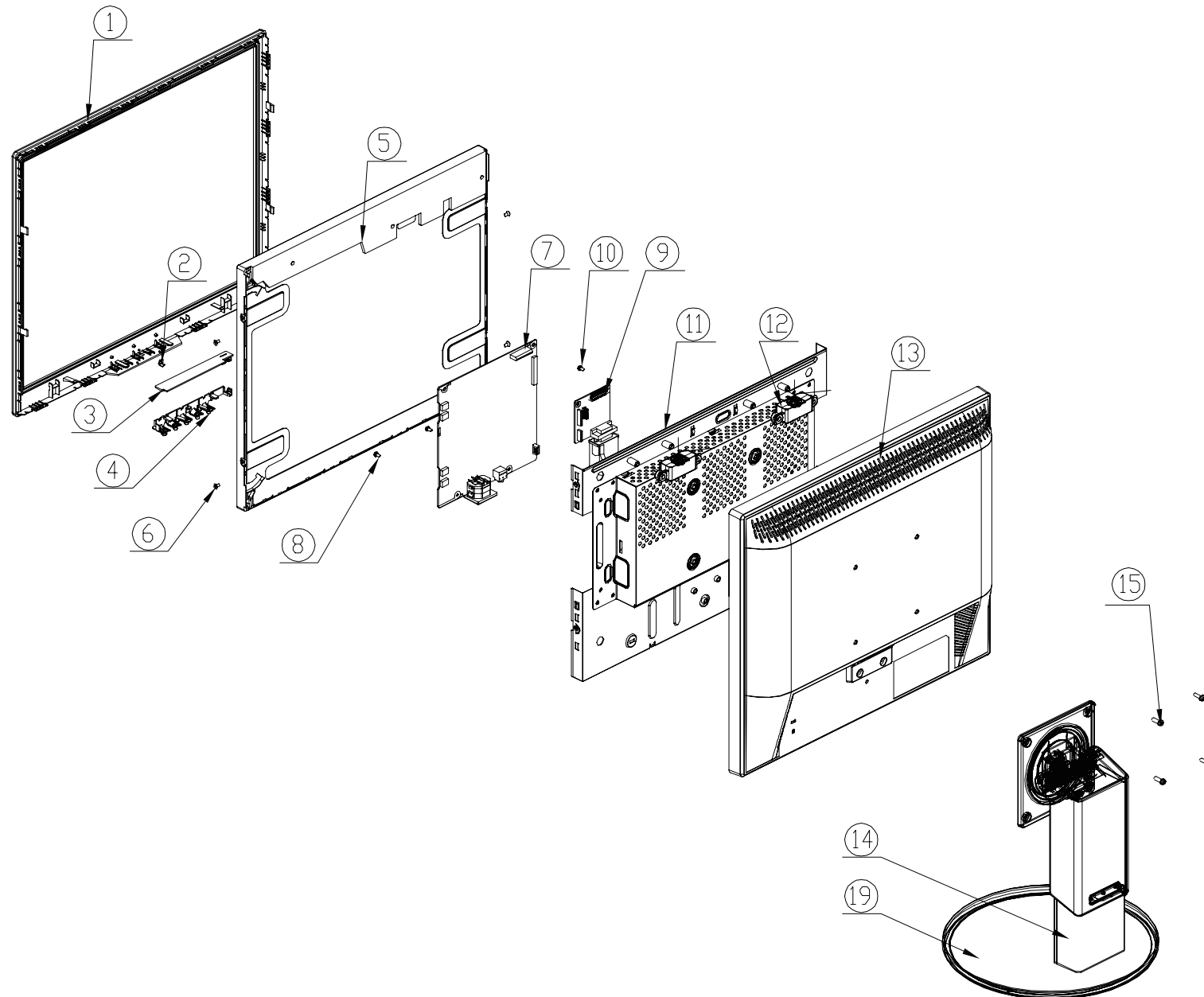
D. Adjust sRGB color-temperature

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 $x = 313 \pm 30$, $y = 329 \pm 30$
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.

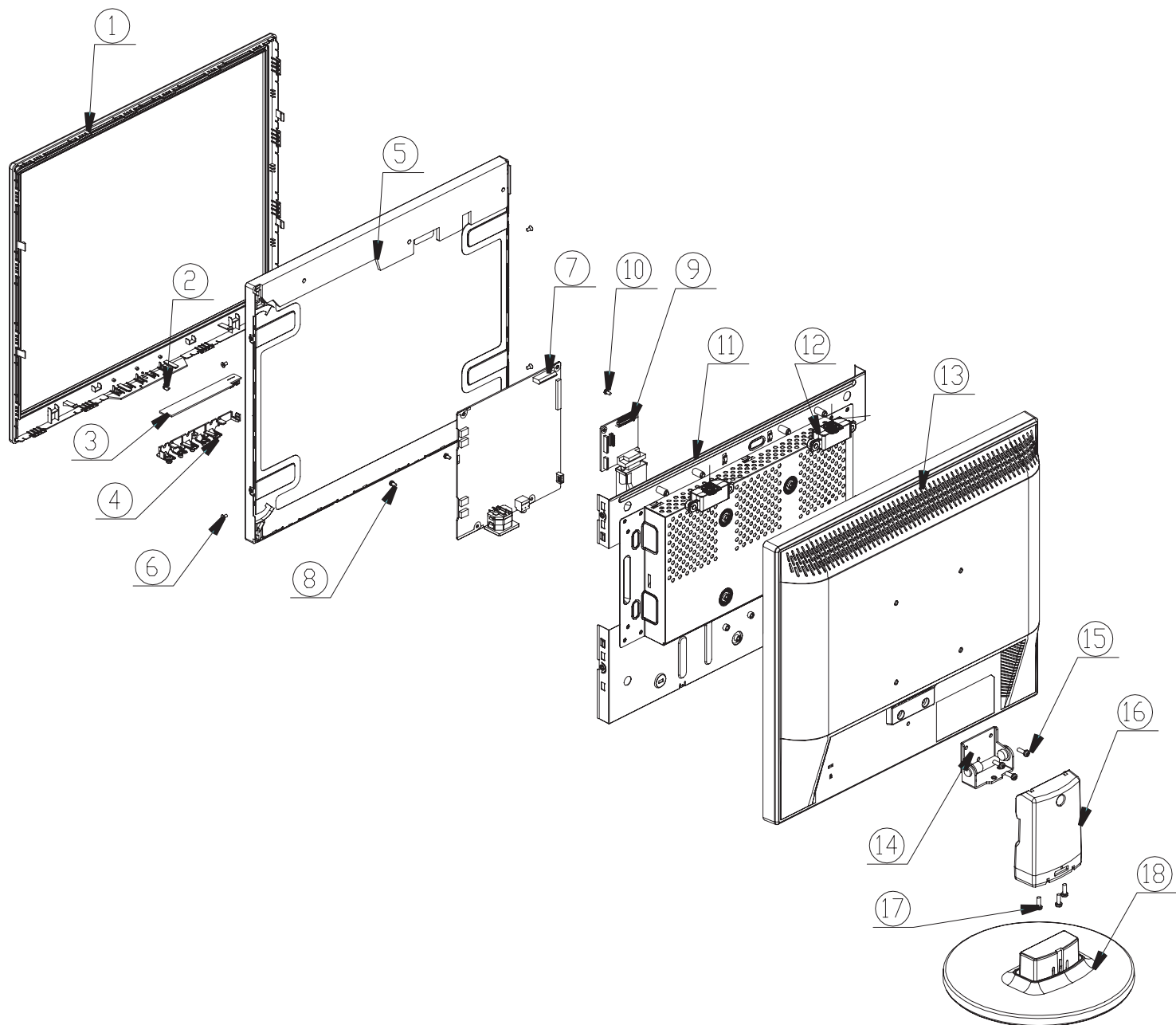
9. Monitor Exploded View

For 919Pz



No.	Description			
1	BEZEL(L19A-8Q1A)			
2	LENS			
3	KEY BOARD			
4	KEY PAD			
5	PANEL HSD190MEN4-A02 NJ HSD			
7	POWER BOARD			
9	MAIN BOARD			
11	MAIN FRAME	No.	Part No.	Description
12	SPEAKER	6	0M1G 130 5120	SCREW(FOR MAIN FRAME/PANEL)
13	REAR COVER19"	8	0M1G1730 6120	SCREW(FOR PB/MAINFRAME)
14	HINGE	10	0M1G1730 6120	SCREW(FOR MB/MAINFRAME)
19	BASE ASS'Y	15	0M1G1740 12 47 CR3	SCREW(FOR HINGE)

For 919Sz&919Vz



No.	Description			
1	BEZEL(L19A-8Q1A)			
2	LENS			
3	KEY BOARD			
4	KEY PAD			
5	PANEL HSD190MEN4-A02 NJ HSD			
7	POWER BOARD			
9	MAIN BOARD			
11	MAINFRAME	No.	Part No.	Description
12	SPEAKER	6	0M1G 130 5120	SCREW(FOR MAINFRAME/PANEL)
13	REAR COVER19"	8	0M1G1730 6120	SCREW(FOR PB/MAINFRAME)
14	HINGE	10	0M1G1730 6120	SCREW(FOR MB/MAINFRAME)
16	STAND	15	0M1G 930 8120	SCREW(FOR HINGE)
18	BASE 8S2	17	0M1G1740 10 47 CR3	SCREW(FOR STAND)

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.

T9AHMJDBK1K3DN

Location	Part No.	Description	Remark
	050G 600 3	HANDLE2	
	050G 600 4	HANDLE 1	
	052G 1207 A	CONDUCTIVE TAPE 45MM *25MM *0.08MM	
	052G 1211 A	CONDUCTIVE TAPE 55MM *45MM *0.08MM	
	052G 1211 B	CONDUCTIVE TAPE 85MM *40MM *0.09MM	
	052G 2191 A	PAPER TAPE	
	052G6019 1	INSULATING TAPE	
E07801	078G 322516 K	NO-SUGGEST SPK 8 OHM 1.5W 43X18 240 300	
E07801	078G 322516 Y	NO-SUGGEST SPK 8 OHM 1.5W 43X18 240 300	2nd Source
E08902	089G 725CAA DB	D-SUB CABLE	2nd Source
E08902	089G 725LAA DB	D-SUB	
E08903	089G1745CAA AC	DVI CABLE 1.5M	2nd Source
E08903	089G1745HAA AC	DVI CABLE	2nd Source
E08903	089G1745LAA AC	DVI CABLE	
E08901	089G404A15N IS	POWER CORD I-SHENG	
E08901	089G404A15N YH	NO-SUGGEST POWER CORD	2nd Source
	095G8014 6WE13	HARNESS 6P-6P 160MM	
	0M1G 130 5120	SCREW	
	0M1G1730 6120	SCREW,42-D020523	
	0M1G1730 6120	SCREW,42-D020523	
	0M1G1740 12 47 CR3	SCREW	
	705GQ834043	19" LCD STAND BASE ASS'Y	
	001G6017 1 GP	THUMB-SCREW	
	019G6034 1 GP	STOPPER PIN	
	A37G0058 1	BASE ASS'Y	
	A37G0059 1	HINGE	
E750	750GAH190N4A22N000	PANEL HSD190MEN4-A02 NJ HSD	
E750	750GAH190N4A32N000	PANEL HSD190MEN4-A03 NJ HSD	2nd Source
E750	750GLH190N4A02N000	PANEL HSD190MEN4-A00 NJ HSD	2nd Source
E750	750GLH190N4A12N000	PANEL HSD190MEN4-A01 NJ HSD	2nd Source
	756GQACB AA106 00	MAIN BOARD-CBPC9MJA1QS	
SMTC9-U402	100GAMH9005YT1	MCU ASS'Y-056G1133137	
	040G 45762412B	CBPC LABEL	
CN401	033G3802 6B Y	CONN 6PIN 2.0	
CN701	033G3802 9B Y W	WAFER	
CN301	033G801930F CH JS	CONNECTOR	
R708	061G152M339 64	CHIPR 3.3 OHM +-5% 2W	
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	
	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	
C707	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11MM	
C704	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11MM	
C305	067G 3151014KB	EC LOW ESR 100UF M 25V 6.3*11MM	
	709G3329 QA001	COMSUPTIVE ASS'Y	

U401	056G 562F11	IC TSUMO58QWHL-LF 1680X1050 EQFP-100	
U703	056G 563 31	IC AZ1117D-1.8-E1	
U701	056G 585 4A	IC AP1117E33L-13	
U107	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U106	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U105	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U104	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U103	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U402	056G1133137	IC MX25L2026MI-12G SOP-8	
U102	056G1133531	TEST ONLY FM24C02A-SO-T-G 2K SOP-8	
U101	056G1133531	TEST ONLY 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	
Q302	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q701	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q401	057G 417518	TRA LMBT3904LT1G 200MA/40V SOT-23 LRC	
Q301	057G 763 1	AO3401 SOT23 BY AOS	
Q301	057G 763535	MOSFET LP3401LT1G -4.2A -30V SOT-23	
R419	061G0402000 JY	NO-SUGGEST RST CHIPR MAX 0R05 OHM 1/16W	
R420	061G0402000 JY	NO-SUGGEST RST CHIPR MAX 0R05 OHM 1/16W	
R423	061G0402000 JY	NO-SUGGEST RST CHIPR MAX 0R05 OHM 1/16W	
R434	061G0402000 JY	NO-SUGGEST RST CHIPR MAX 0R05 OHM 1/16W	
R134	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R132	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R131	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R130	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R129	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R128	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R126	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R127	061G0402100 JY	NO-SUGGEST RST CHIPR 10 OHM +5% 1/16W Y	
R415	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R409	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R119	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R118	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R117	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R115	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R114	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R113	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R111	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R109	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R105	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R101	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R416	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R417	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R422	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R424	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R425	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R428	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R706	061G0402101 JY	NO-SUGGEST RST CHIPR 100 OHM +5% 1/16W	
R705	061G0402102 JY	NO-SUGGEST RST CHIPR 1KOHM +5% 1/16W YA	
R418	061G0402102 JY	NO-SUGGEST RST CHIPR 1KOHM +5% 1/16W YA	
R414	061G0402102 JY	NO-SUGGEST RST CHIPR 1KOHM +5% 1/16W YA	
R104	061G0402102 JY	NO-SUGGEST RST CHIPR 1KOHM +5% 1/16W YA	
R103	061G0402102 JY	NO-SUGGEST RST CHIPR 1KOHM +5% 1/16W YA	

R703	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R702	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R412	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R407	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R308	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R305	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R120	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R133	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R135	061G0402103 JY	NO-SUGGEST RST CHIPR 10KOHM +-5% 1/16W Y	
R421	061G0402104 JY	RST CHIPR 100KOHM +-5% 1/16W YAGEO	
R106	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	
R107	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	
R704	061G0402223 JY	RST CHIPR 22KOHM +-5% 1/16W YAGEO	
R406	061G0402223 JY	RST CHIPR 22KOHM +-5% 1/16W YAGEO	
R304	061G0402223 JY	RST CHIPR 22KOHM +-5% 1/16W YAGEO	
R401	061G04023900FI	TEST ONLY RST 0402 390R 1% 1/16W TA-I	
R431	061G04023901FY	RST CHIP 3.9KOHM 1% YAGEO	
R432	061G04023901FY	RST CHIP 3.9KOHM 1% YAGEO	
R433	061G04023901FY	RST CHIP 3.9KOHM 1% YAGEO	
R110	061G0402471 JY	RST CHIPR 470OHM +-5% 1/16W YAGEO	
R137	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R136	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R138	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R125	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R124	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R123	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R303	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R436	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R435	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R306	061G0402563 JY	RST CHIPR 56KOHM 1/16W YAGEO	
R139	061G0402682 JY	RST CHIPR 6.8KOHM +-5% 1/16W YAGEO	
R108	061G0402750 JY	NO-SUGGEST RST CHIPR 75OHM +-5% 1/16W YA	
R112	061G0402750 JY	NO-SUGGEST RST CHIPR 75OHM +-5% 1/16W YA	
R116	061G0402750 JY	NO-SUGGEST RST CHIPR 75OHM +-5% 1/16W YA	
R462	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	
R102	061G0603000 JY	NO-SUGGEST RST CHIPR MAX0R05 1/10W YAGEO	
R461	061G0603000 JY	NO-SUGGEST RST CHIPR MAX0R05 1/10W YAGEO	
R462	061G0603000 JY	NO-SUGGEST RST CHIPR MAX0R05 1/10W YAGEO	
R456	061G0603201 JY	NO-SUGGEST RST CHIPR 200 OHM +-5% 1/10W	
R460	061G0603201 JY	NO-SUGGEST RST CHIPR 200 OHM +-5% 1/10W	
R301	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
R302	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
C107	065G040210232K 3	CAP CHIP 0402 1N 50V X7R +/-10%	
C121	065G040210232K 3	CAP CHIP 0402 1N 50V X7R +/-10%	
C122	065G040210232K 3	CAP CHIP 0402 1N 50V X7R +/-10%	
C122	065G040210232K A	CAP 0402 1NF K 50V X7R	
C121	065G040210232K A	CAP 0402 1NF K 50V X7R	
C107	065G040210232K A	CAP 0402 1NF K 50V X7R	
C431	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	
C432	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	
C433	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	

C405	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C404	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C403	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C304	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C301	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C124	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C115	065G040210425K	T	CAP 0402 0.1UF 10% 25V X5R	
C103	065G040222031J	A	CAP 0402 22PF J 50V NPO	
C104	065G040222031J	A	CAP 0402 22PF J 50V NPO	
C104	065G040222031J	T	CAP CHIP 0402 22PF J 50V NPO	
C103	065G040222031J	T	CAP CHIP 0402 22PF J 50V NPO	
C401	065G040222417Z	Y	NO-SUGGEST 0402 220NF 16V Y5V	
C302	065G040222417Z	Y	NO-SUGGEST 0402 220NF 16V Y5V	
C117	065G040222417Z	Y	NO-SUGGEST 0402 220NF 16V Y5V	
C116	065G040222417Z	Y	NO-SUGGEST 0402 220NF 16V Y5V	
C420	065G040247031J	3	CAP CHIP 0402 47P 50V NPO +/-5%	
C421	065G040247031J	3	CAP CHIP 0402 47P 50V NPO +/-5%	
C114	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C111	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C110	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C108	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C106	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C102	065G040247312K	T	CAP 0402 47NF 10% 16V X7R	
C105	065G040250931C	Y	CAP CHIP 0402 5PF 50V NPO +/-0.25PF	
C109	065G040250931C	Y	CAP CHIP 0402 5PF 50V NPO +/-0.25PF	
C113	065G040250931C	Y	CAP CHIP 0402 5PF 50V NPO +/-0.25PF	
C105	065G040250931J	3	CAP CHIP 0402 5PF 50V NPO +/-5%	
C109	065G040250931J	3	CAP CHIP 0402 5PF 50V NPO +/-5%	
C113	065G040250931J	3	CAP CHIP 0402 5PF 50V NPO +/-5%	
C303	065G060310512K	Y	NO-SUGGEST CHIP 0603 1UF K 16V X7R	
C402	065G0805475A5K	3	CAP MLCC 0805 4.7UF K 10V X5R	
C402	065G0805475A5K	T	NO-SUGGEST 0805 4.7UF K 10V X5R	
U402	070GHDCP500HDC		NO-SUGGEST HDCP CODE	
FB301	071G 56K121		CHIP BEAD	
FB410	071G 56V301	B	CHIP BEAD 0805 300OHM BULLWILL	
FB404	071G 56V301	B	CHIP BEAD 0805 300OHM BULLWILL	
FB402	071G 56V301	B	CHIP BEAD 0805 300OHM BULLWILL	
FB401	071G 56V301	B	CHIP BEAD 0805 300OHM BULLWILL	
FB104	071G 59G301		CHIP BEAD 300OHM	
FB105	071G 59G301		CHIP BEAD 300OHM	
FB110	071G 59G301		CHIP BEAD 300OHM	
FB101	071G 59K190	B	19 OHM BEAD	
FB102	071G 59K190	B	19 OHM BEAD	
FB103	071G 59K190	B	19 OHM BEAD	
D108	093G 64 42	L	DIODE LBAV70LT1G SOT-23 LRC	
D104	093G 64 42	L	DIODE LBAV70LT1G SOT-23 LRC	
D104	093G 64 42	PP	BAV70 SOT-23	
D108	093G 64 42	PP	BAV70 SOT-23	
ZD401	093G 39GA01	T	RLZ5.6B	
ZD104	093G 39GA01	T	RLZ5.6B	
	709G3329 QS001		COMSUPTIVE ASS'Y	
	Q52G6026	7	MESH PRINTTING PAPER	
	715G3329	1 2	MAIN PCB DS;FR-4;80*72*1.6MM	
R401	061G04023900FY		RST CHIP 390R 1/16W 1%	

	KEPC9QI8	KEY BOARD	
CN001	033G3802 6B YH L	WAFER	
D001	081G 12 1F GH	LED GREEN/YELLOW GHZYG603D2-5B	
D001	081G 12 1F GP	LED Φ3MM YELLOW&GREEN GP32032M/G307-ZY-50-C	
	709G2835 QM001	CONSUMPTIVE ASS'Y	
R003	061G0603000 1F	NO-SUGGEST RST CHIPR 0 OHM +-1% 1/10W	
R005	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R004	061G1206200 1F	NO-SUGGEST RST CHIPR 2 KOHM +-1% 1/4W	
R002	061G1206200 1F	NO-SUGGEST RST CHIPR 2 KOHM +-1% 1/4W	
	709G2835 QS001	CONSUMPTIVE ASS'Y	
SW003	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW005	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW004	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW002	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW001	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW001	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW005	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW003	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW004	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW002	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
	709G2835 QA001	CONSUMPTIVE ASS'Y	
	715G2835 2	KEY PCB FR-1 S/S 116X17MM	
	PWPCA921HQEB	POWER BOARD G2824-P01-00A-001-3-100514	
	040G 45762412B	CBPC LABEL	
GND1	009G6005 1	GROUND TERMINAL	
CN602	033G3802 4	WAFER 2.0MM 4P	
CN802	033G8021 2E F	CONNECTOR	
CN804	033G8021 2E F	CONNECTOR	
CN802	033G8021 2E U	INVERT CONNECTOR	2nd Source
CN804	033G8021 2E U	INVERT CONNECTOR	2nd Source
	051G 6 4503	GLUE_RTV	
IC903	056G 139 3A	PC123Y22FZOF SHARP	
IC601	056G 616 34	IC APA2069JITUL 2.6W*2 PDIP-16	
NR901	061G 58100 X	NTC10D2-14MC	
NR901	061G 58100 WD	RST NTCR 10 OHM +-20% 5A THINKING	
R946	061G152M821 64 HX	820OHM +-5% 2W	
R947	061G152M821 64 HX	820OHM +-5% 2W	
C903	063G 10747410V	NO-SUGGEST 0.47UF 275VAC ARCO	
C817	065G 6J2096ET	2PF 5% SL 6KV	
C902	065G305M1022BP	CAP Y2 1000PF M 250VAC	
C901	065G305M1022BP	CAP Y2 1000PF M 250VAC	
C921	065G306M1022BP	Y1 1000PF M 250VAC	
C900	065G306M3322BP	Y1 CAP 3300PF M 250VAC	
C905A	067G 40Z10115K	CAP 105C 100UF M 450V	
C905A	067G 40Z10115L	EC 100UF 450V M 18*36MM	
C905A	067G 40Z10115X	EC 100UF 20% 450V 18*36	
C918	067G215D6814KV	CAP 105C 680UF M 25V 10*20	
C917	067G215D6814KV	CAP 105C 680UF M 25V 10*20	
C918	067G215D6814LV	LOW ESR EC 680UF 25V M 10*20MM	
C917	067G215D6814LV	LOW ESR EC 680UF 25V M 10*20MM	
C916	067G215P1024XV	CAP 105C 1000UF M 25V	
C915	067G215P4713XV	CAP 105C 470UF M 16V	
C917	067G215P6814XV	CAP 105C 680UF M 25V	

C918	067G215P6814XV	CAP 105C 680UF M 25V	
C908	067G215R2207HB	LOW ESR EC 22UF 50V M 6.3*11MM	
C908	067G215R2207KV	LOW ESR EC 22UF 50V M 6.3*11MM	
C804	067G215S1024KV	EC 1000UF 20% 25V 12.5*20	
C916	067G215S1024LV	LOW ESR EC 1000UF 25V M 12.5*20MM	
C804	067G215S1024LV	LOW ESR EC 1000UF 25V M 12.5*20MM	
C915	067G215S4713KV	EC 105℃ CAP 470UF M 16V	
C915	067G215S4713LV	LOW ESR EC 470UF 16V M 10*12.5MM	
C604	067G215V101 4N	KY25VB100M-CC3(6.3*11) 100UF M 25V	
C613	067G215V101 4N	KY25VB100M-CC3(6.3*11) 100UF M 25V	
L901	073G 174 65 H2	LINE FILTER 30MH MIN	
L901	073G 174 65 S2	LINE FILTER 30MH MIN	
L903	073G 253 91 H	IND CHOKE 3.5UH+-10% DADONG	
L904	073G 253 91 H	IND CHOKE 3.5UH+-10% DADONG	
L903	073G 253 91 L	CHOKE BY LI TA	
L904	073G 253 91 L	CHOKE BY LI TA	
L905	073G 253 91 L	CHOKE BY LI TA	
T901	080GL22T 3 N1	X'FMR 490UH YUVA-1093	
T901	080GL22T 3 S1	X'FMR 490UH	
PT801	080GL24T 23 H	INVERTER X'FMR 68.5UH VOC	
PT801	080GL24T 23 DN	X'FMR 68UH TK.2005Y.101 VOC	
CN901	087G 501 32 S	AC SOCKET ST-01CP-BCE-R	
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	2nd Source
CN601	088G 30214K DC	PHONE JACK 5P GREEN -	
BD901A	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
BD901A	093G 50460502	BRIDGE KBP206G C2	
D907	093G3006 1 1	31DQ06FC3 NIHON INTER	
CN902	095G 82013D 3	HARNESS 13P(SAN)-9P 180MM	
	705GQ851002	OIL FOR DISAPPEAR ASS'Y	
	705GQ893039	D908 ASS'Y	
D908	093G 60278	DIODE SP1060 ITO-220 SECOS	
D908	093G 60507	SRF1060	
	0M1G 930 8120	SCREW	
HS2	Q90G6263 6	HEAT SINK	
	705GQ957009	Q901 ASS'Y	
Q901	057G 667 56	MOSFET 7A/650V FMA07N65GX TO-220F	
Q901	057G 724 11	STP9NK65ZFP	
	0M1G 930 8120	SCREW	
HS1	Q90G6263 6	HEAT SINK	
	705GQ993009	D906 ASS'Y	
D906	093G 52 66	DIODE FMX-12SL 10A/200V TO-220	
D906	093G 52 68	DIODE FCF10A20 10A/200V TO-220	
D906	093G 52 69	DIODE YG902C2RSC 10A/200V TO-220F15	
	0M1G 930 8120	SCREW	
HS3	Q90G6264 5	HEAT SINK	
	709G2824 QM001	CONSUMPTIVE ASS'Y	
	055G 2	ALCOHOL	
	055G 23524	WELDING FLUX WITHOUT PB	
	Q55G 100625	TIN STICK_LOW ARGENTUM	
IC901	056G 379128	IC LD7576 GS SOP-8	
IC801	056G 608 12	IC TA9687GN-A-0-TR SOP-16	
Q608	057G 417 18 T	PMBT3904 SOT-23	
Q607	057G 417512	MMBT3906	
Q608	057G 417903 T	TRA SIG SM MMBT3904 (PHSE) R	

Q805	057G 763 91	ET AO4620 7.2A/30V -5.3A/-30V SOIC-8	
Q806	057G 763 91	ET AO4620 7.2A/30V -5.3A/-30V SOIC-8	
Q805	057G 763526	FET APM4548AKC 30V/7.4A -30V/-5.6A ANPEC	
Q806	057G 763526	FET APM4548AKC 30V/7.4A -30V/-5.6A ANPEC	
Q802	057G 763904	TRA FET 2N7002 SOT-23 PHILIPS	
R926	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R927	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R812	061G0603100 3F	RST CHIPR 100 KOHM +-1% 1/10W	
R810	061G0603100 3F	RST CHIPR 100 KOHM +-1% 1/10W	
R806	061G0603100 3F	RST CHIPR 100 KOHM +-1% 1/10W	
R612	061G0603100 JI	RST 0603 10R 5% 1/16W TA-I	
R613	061G0603102 JI	TEST ONLY RST 0603 1K 5% 1/16W TA-I	
R801	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R807	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R601	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R602	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R603	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R604	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R605	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R609	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R610	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R801	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R807	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R601	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R602	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R603	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R604	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R605	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R609	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R610	061G0603103 JI	TEST ONLY RST 0603 10K 5% 1/16W TA-I	
R813	061G0603104 JI	TEST ONLY RST 0603 100K 5% 1/16W TA-I	
R809	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R808	061G06033600FF	RST CHIPR 360 OHM +-1% 1/10W FENGHUA	
R606	061G0603562 JI	RST 0603 5.6K 5% 1/10W	
R607	061G0603562 JI	RST 0603 5.6K 5% 1/10W	
R606	061G0603562 JT	RST CHIPR 5.6KOHM +-5% 1/10W TZAI YUAN	
R607	061G0603562 JT	RST CHIPR 5.6KOHM +-5% 1/10W TZAI YUAN	
R836	061G0603563	RST CHIPR 56 KOHM +-5% 1/10W	
R611	061G0603563	RST CHIPR 56 KOHM +-5% 1/10W	
R815	061G06038201FF	RST CHIPR 8.2K OHM +-1% 1/10W FENGHUA	
R811	061G06038202FI	TEST ONLY RST 0603 82K 1% 1/10W TA-I	
R837	061G0603822	RST CHIPR 8.2 KOHM +-5% 1/10W	
R930	061G06039101FI	TEST ONLY RST 0603 9.1K 1% 1/10W TA-I	
JR601	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
JR903	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R608	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R847	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
JR804	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
JR801	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R608	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	
R847	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	
JR804	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	
JR801	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	
JR903	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	

JR601	061G0805000 JT	RST CHIPR 0 OHM +- 5% 1/8W TZAI YUAN	
R924	061G08051000FT	RST CHIPR 100 OHM +-1% 1/8W	
R924	061G08051000FY	RST CHIPR 100 OHM +-1% 1/8W YAGEO	
R925	061G08051001FT	RST CHIP 1K 1/8W 1%	
R939	061G08051001FT	RST CHIP 1K 1/8W 1%	
R925	061G08051001FY	RST CHIP 1K 1/8W 1%	
R939	061G08051001FY	RST CHIP 1K 1/8W 1%	
JR803	061G08051002FF	RST CHIPR 10KOHM +-1% 1/8W FENGHUA	
R938	061G08051002FT	RST CHIP 10K 1/8W 1%	
JR803	061G08051002FT	RST CHIP 10K 1/8W 1%	
R938	061G08051002FY	RST CHIP 10K 1/8W 1%	
JR803	061G08051002FY	RST CHIP 10K 1/8W 1%	
JR803	061G08051002FY	RST CHIP 10K 1/8W 1%	
R802	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R943	061G0805471	RST CHIPR 470 OHM +-5% 1/8W	
R831	061G0805471	RST CHIPR 470 OHM +-5% 1/8W	
R832	061G0805471	RST CHIPR 470 OHM +-5% 1/8W	
R816	061G0805479	RST CHIP 4R7 1/8W 5%	
R817	061G0805479	RST CHIP 4R7 1/8W 5%	
R818	061G0805479	RST CHIP 4R7 1/8W 5%	
R819	061G0805479	RST CHIP 4R7 1/8W 5%	
R804	061G0805512	RST CHIPR 5.1 KOHM +-5% 1/8W	
R803	061G0805512	RST CHIPR 5.1 KOHM +-5% 1/8W	
R830	061G0805682	RST CHIPR 6.8 KOHM +-5% 1/8W	
JR802	061G1206000	RST CHIP MAX 0R05 1/4W	
JR901	061G1206000	RST CHIP MAX 0R05 1/4W	
JR902	061G1206000	RST CHIP MAX 0R05 1/4W	
FB902	061G1206000 4	NO-SUGGEST RST CHIP MAX 0R05 1/4W	
R910	061G1206100 JT	RST CHIPR 10 OHM +-5% 1/4W TZAI YUAN	
R918	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R919	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R920	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R935	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R961	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R962	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R949	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R950	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R951	061G1206101	NO-SUGGEST RST CHIPR 100 OHM +-5% 1/4W	
R901	061G1206105	1M 1206	
R902	061G1206105	1M 1206	
R912	061G1206221 JI	TEST ONLY RST 220 OHM 5% 1/4W TA-I	
R912	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	
R909	061G1206339	NO-SUGGEST RST CHIPR 3.3 OHM +-5% 1/4W	
R905	061G1206822	RST CHIPR 8.2 KOHM +-5% 1/4W	
R904	061G1206822	RST CHIPR 8.2 KOHM +-5% 1/4W	
C611	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C610	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C932	065G060310232K A	CAP CHIP 0603 1000PF K 50V X7R	
C612	065G0603104 12	CER2 0603 X7R 16V 100N P	
C614	065G0603104 12	CER2 0603 X7R 16V 100N P	
C814	065G060322131J A	CAP CHIP 0603 220PF J 50V NPO	
C810	065G060333232K F	CAP CHIP 0603 3.3NF K 50V X7R	
C805	065G060333332K A	CAP CHIP 0603 33NF K 50V X7R	
C606	065G060347412K Y	CAP CHIP 0.47UF 16V +/-10% X7R	

C603	065G060347412K	Y	CAP CHIP 0.47UF 16V +/-10% X7R	
C602	065G060347412K	Y	CAP CHIP 0.47UF 16V +/-10% X7R	
C601	065G060347412K	Y	CAP CHIP 0.47UF 16V +/-10% X7R	
C928	065G080510332K	F	CAP 0805 10NF K 50V X7R	
C811	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C815	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C907	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C924	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C931	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C930	065G080510432K	A	CAP CHIP 0805 0.1UF K 50V X7R	
C608	065G0805105 22		CAP CHIP 0805 1UF K 25V X7R	
C609	065G0805105 22		CAP CHIP 0805 1UF K 25V X7R	
C818	065G0805155A2K	3	NO-SUGGEST 0805 1.5UF K 10V X7R	
C818	065G0805155A2K	M	CAP MLCC 0805 1.5UF K 10V X7R	
C818	065G0805155A2K	T	NO-SUGGEST 0805 1.5UF K 10V X7R	
C809	065G080522131G	F	CAP 0805 220PF 2% 50V NPO	
C809	065G080522131G	Y	CAP CHIP 0805 220PF 2% 50V NPO	
C909	065G080522131J	Y	CAP CHIP 0805 220P 50V NPO +/-5%	
C806	065G080522512K	3	CAP CHIP 0805 2U2 16V X7R +/-10%	
C806	065G080522512K	M	MLCC 0805 CAP 2.2UF 16V X7R	
C806	065G080522512K	T	CAP CHIP 0805 2.2UF K 16V X7R	
C808	065G080533332K	F	CAP 0805 33NF K 50V X7R	
C940	065G080547332K	F	CAP CHIP 0805 47NF K 50V X7R	
C912	065G120610272K	Y	CAP CHIP 1206 1NF K 500V X7R	
C929	065G120610272K	Y	CAP CHIP 1206 1NF K 500V X7R	
C935	065G120610272K	Y	CAP CHIP 1206 1NF K 500V X7R	
D806	093G 64 42 PP		BAV70 SOT-23	
D803	093G 6433S		SWITCHING DIODE BAV99	
ZD803	093G 39S 24 T		RLZ 5.6B LLDS	
ZD802	093G 39S 24 T		RLZ 5.6B LLDS	
	709G2824 QS001		CONSUMPTIVE ASS'Y	
	052G 2191 A		PAPER TAPE	
CN901	006G 31500		EYELET	
IC904	056G 158 12		KIA431A-AT/P TO-92	
Q903	057G 761 16		TRA KTD1028 KEC	
R903	061G152M10452T		NO-SUGGEST RST MOFR 100KOHM +/-5% 2WS	
R914	061G152M39852T		RST MOFR 0.39 OHM +/-5% 2WS	
R828	061G211S62552T SY		MGFR 6.2MOHM +/-5% 1WS FUTABA	
C937	065G 1K680 1T6921		CAP CER 68PF K 1KV NPO	
C906	065G 2K152 2T6921		CAP CER 1500PF K 2KV Y5P	
C802	065G500K4732GT		CAP JC 47NF 10% 50V X7R	
C801	065G500K4732GT		CAP JC 47NF 10% 50V X7R	
C802	065G500K4732HT		CAP CER 47NF 10% 50V X7R	
C801	065G500K4732HT		CAP CER 47NF 10% 50V X7R	
C939A	067G 2046812KT		CS CAP 680UF 10V 8*11 MM	
C939A	067G 2046812LT		CAP CS 680UF 20% 10V 8*11.5	
FB602	071G 55 9 T		FERRITE BEAD 3.5*6*0.8-T52	
FB901	071G 55 29		FERRITE BEAD	
F902	084G 56 4 B		FUSE 4A 250V	
F903	084G 56 4 B		FUSE 4A 250V	
F901	084G 56 4 B		FUSE 4A 250V	
ZD902	093G 3952152T		TZX18B	
D900	093G 6026T52T		RECTIFIER DIODE FR107	
D901	093G 6038T52T		FR103 AO	

D801	093G 64 1152T	1N4148	
D903	093G 64 1152T	1N4148	
D601	093G 64 1152T	1N4148	
J810	095G 90 23	JUMPER WIRE	
J811	095G 90 23	JUMPER WIRE	
J812	095G 90 23	JUMPER WIRE	
J813	095G 90 23	JUMPER WIRE	
J901	095G 90 23	JUMPER WIRE	
J902	095G 90 23	JUMPER WIRE	
J904	095G 90 23	JUMPER WIRE	
J905	095G 90 23	JUMPER WIRE	
J809	095G 90 23	JUMPER WIRE	
J808	095G 90 23	JUMPER WIRE	
J807	095G 90 23	JUMPER WIRE	
J806	095G 90 23	JUMPER WIRE	
J805	095G 90 23	JUMPER WIRE	
J801	095G 90 23	JUMPER WIRE	
C822	095G 90 23	JUMPER WIRE	
C820	095G 90 23	JUMPER WIRE	
J903	095G 90 23	JUMPER WIRE	
L906	095G 90 23	JUMPER WIRE	
J607	095G 90 23	JUMPER WIRE	
J606	095G 90 23	JUMPER WIRE	
J605	095G 90 23	JUMPER WIRE	
J604	095G 90 23	JUMPER WIRE	
J603	095G 90 23	JUMPER WIRE	
J602	095G 90 23	JUMPER WIRE	
J912	095G 90 23	JUMPER WIRE	
J916	095G 90 23	JUMPER WIRE	
J601	095G 90 23	JUMPER WIRE	
J915	095G 90 23	JUMPER WIRE	
J914	095G 90 23	JUMPER WIRE	
J913	095G 90 23	JUMPER WIRE	
J911	095G 90 23	JUMPER WIRE	
J910	095G 90 23	JUMPER WIRE	
J909	095G 90 23	JUMPER WIRE	
J908	095G 90 23	JUMPER WIRE	
J907	095G 90 23	JUMPER WIRE	
J906	095G 90 23	JUMPER WIRE	
	709G2824 QA001	CONSUMPTIVE ASS'Y	
	095G 90 23	JUMPER WIRE	
E715	715G2824P0100A001M	POWER PCB FR-1 160X160MM T1.6MM	2nd Source
E715	715G2824P0100A001S	POWER PCB FR-1 160X160MM T1.6MM	
R811	061G06038202FT	RST CHIPR 82K OHM +- 1% 1/10W	
R930	061G06039101FT	RST CHIP 9K1 1/10W 1%	
R613	061G0603102 JT	RST CHIP 1K 1/10W 5% TZAI YUAN	
R910	061G1206100 JI	RST 10 OHM 5% 1/4W TA-I	
R612	061G0603100 JT	RST CHIP 10R 1/10W 5% TZAI YUAN	
R813	061G0603104 JT	RST CHIP 100K 1/10W 5% TZAI YUAN	
HS4	Q90G6295 3	HEAT SINK	
	Q15G0246101	MAIN FRAME	
	Q33G0170ABJ 1L0100	KEY PAD	
	Q33G0171 1 1C0100	LENS	
	Q34G0270ABJ 1B0100	REAR COVER19"	

	Q34G0305BBLA1B0130	BEZEL(L19A-8Q1A)	
	Q40G000361592A	POP LABEL FOR 919P2+	
	Q40G0003624 5A	POP LABEL	
	Q41G780A61588A	HA STAND	
	Q41G7880615 5A	QSG	
	Q44G9116101	EPS CUSHION	
	Q44G9116201	EPS CUSHION	
	Q44G9116615 5A	CARTON	
	Q45G 88607 34	PE BAG FOR BASE	
	Q45G 88607 69	PE BAG	
	Q45G 88609199	EPE BAG	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 98	MIDDLE CARTON TAPE FOR AOC	
	Q52G 1185 99	BIG CARTON TAPE FOR AOC	
	S89G179T30N501	FFC CABLE 30P 215MM P1.0MM	
	089F80002153BG	1.0*30*2.5-215-3-0.65*0.05	
	033F303FH10BK3	F1010HA-30P-BK	
	033F303FJSHK30	1.0S-19-30A	
	044F3231SMJ001	TAPE 30*11.5*0.1	
	044F3231SMJ002	TAPE 25*25*0.15	
	041G780061537A	TCO'03 CARD	
E08904	089G 17356G554	AUDIO CABLE 1800MM	
E08904	089G 17356X554	AUDIO CABLE 1800MM	2nd Source
	Q45G 76 28 RN R	PE BAG MANUAL	
	Q70G19C1615 1A	919PZ CD MANUAL	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	040G 581689 4A	BARCODE LABEL FOR 1	
	Q40G 19N615A18	RATING LABEL	
	Q40G000161515A	CARTON LABEL	