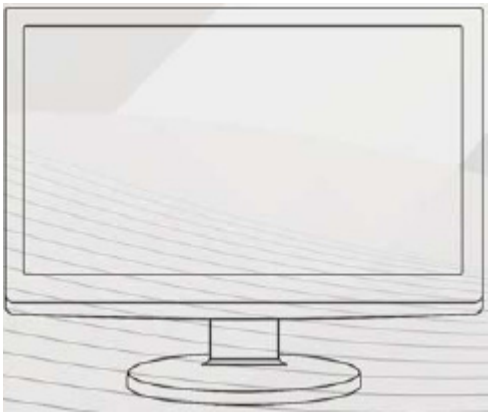
Service
Service
Service



Service Manual

Horizontal Frequency

30-60 kHz

TABLE OF CONTENTS

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 TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Version	Release Date	Revision History	TPV Model Name
A00	Apr.25.2011	Initial release	T6BCSR2EYHPUNN
			T6BCSR2EYHACNN
			T6BCSR2EYHGGNN
A01	Jul.20, 2011	Add new models	T6BMSR2EYHACNN
			T6BMSR2EYHPUNN
A02	Sep.15.2011	Add new models	T6BCSR2EYHSPNN
			T6BMSR2EYHSPNN
A03	Nov.18,2011	Add new models	T6BASR2EYHSPNN
			T6BASR2EYHPUNN
A04	Dec.15,2011	Add new models	T6BMSR2EYHA2NNM
			T6BCSR2EYHACNNM
			T6BMSR2EYHACNNM
			T6BMSR2EYHA1NNM
			T6BCSR2EYHGGNNM
			T6BASR2EYHACNNM
			T6BMSR2EYHPUNNM

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 Specification

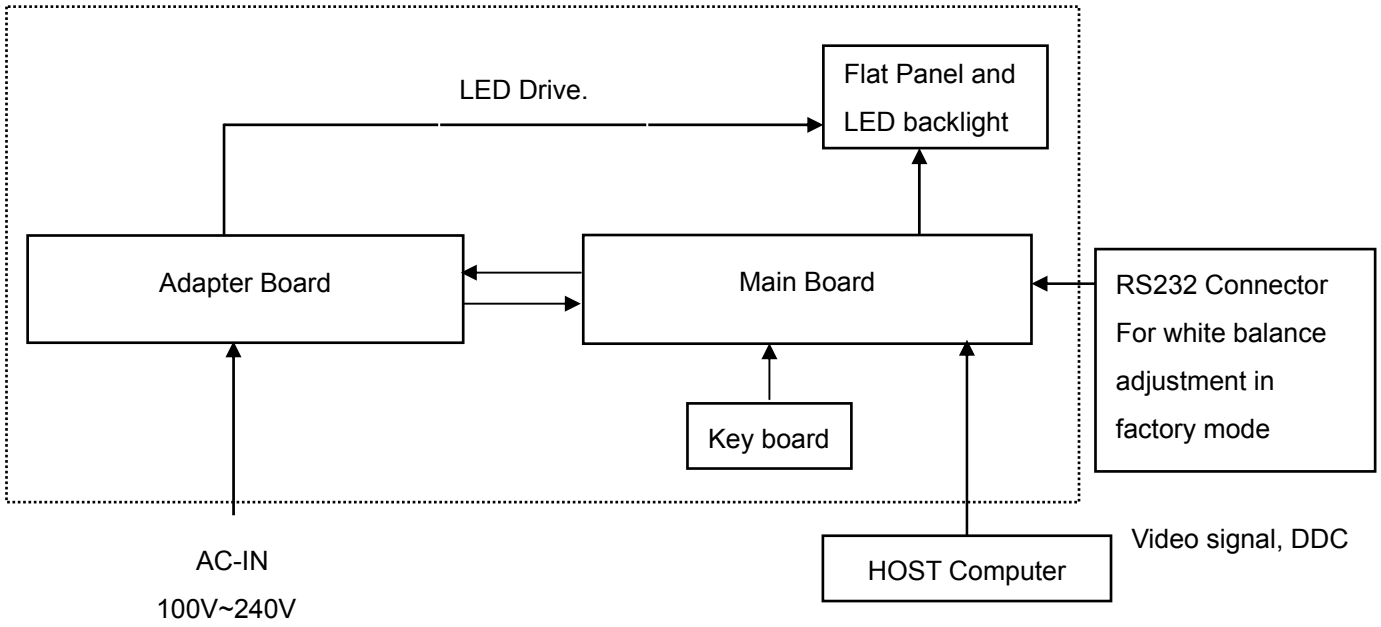
Panel	Model number	e1620Swb
	Driving system	TFT Color LED
	Viewable Image Size	39.6cm diagoanl
	Pixel pitch	0.252mm(H) x 0.252mm(V)
	Video	R, G, B Analog Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	90 MHz
Resolution	Horizontal scan range	30 kHz - 60 kHz
	Horizontal scan Size(Maximum)	344.232mm
	Vertical scan range	60 Hz
	Vertical scan Size(Maximum)	193.536mm
	Optimal preset resolution	1366 x 768 (60 Hz)
	Highest preset resolution	1366 x 768 (60 Hz)
	Plug & Play	VESA DDC2B/CI
	Input Connector	D-Sub 15pin
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS
	Power Source	100~240V~, 50/60Hz
	Power Consumption	Active < 12 W
		Standby < 0.7 W
Physical Characteristics	Connector Type	15-pin Mini D-Sub
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	305.2 mm
	Width	376.3 mm
	Depth	190 mm
	Weight (monitor only)	1.9 kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-20°to 60°
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 80% (non-condensing)
	Altitude:	
	Operating	0~ 3000m (0~ 10000 ft)
	Non-Operating	0~ 5000m (0~ 15000 ft)

2. LCD Monitor Description

The LCD Monitor will contain a main board, an adapter 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



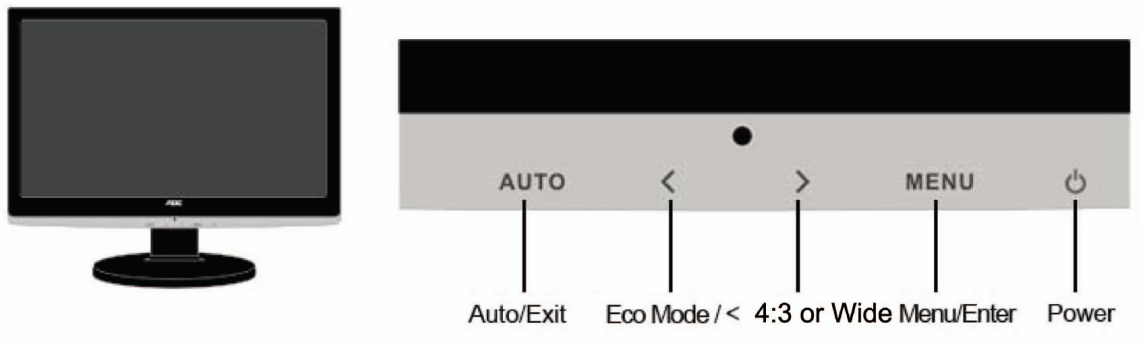
3. Operation Instructions

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.

3.2 Control Buttons



Power

Press the Power button continuously to turn off the monitor.

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.)

Eco Mode / <

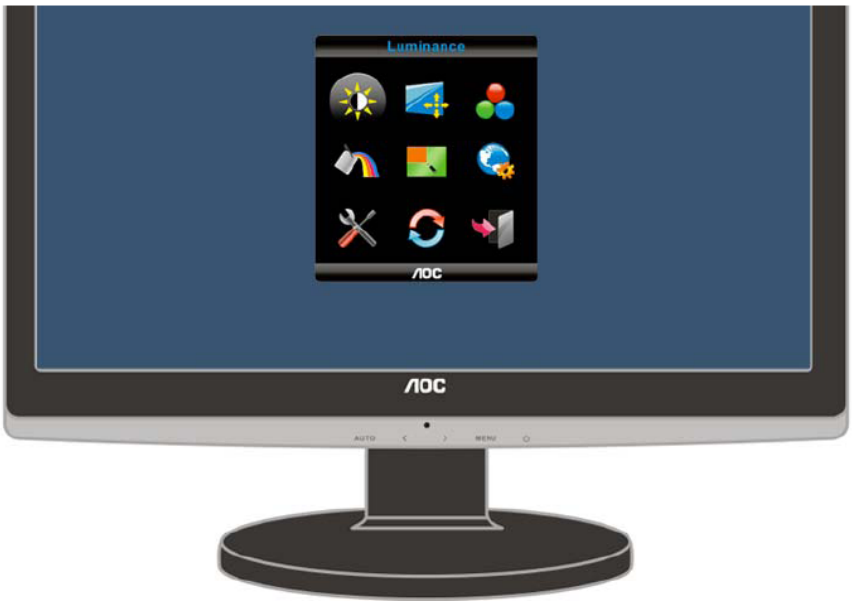
Press the Eco key continuously to select the Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).

Auto / Exit

When the OSD is closed, press Auto button will be auto configure hot key function.

3.3 Adjusting the Picture

OSD Settings



1) Press the **MENU-button** to activate the OSD window.

2) Press **< or >** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate sub-menu . Once the desired function is highlighted, press **MENU-button** to activate it.

3) Press **< or >** to change the settings of the selected function. Press **< or >** to select another function in sub-menu. Press **AUTO** to exit. If you want to adjust any other function, repeat steps 2-3.

4) 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.

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.

Luminance

1

Press **MENU** (Menu) to display menu.

2

Press ‹ or › to select  (Luminance), and press **MENU** to enter.

3

Press ‹ or › to select submenu, press **MENU** to enter, and press ‹ or › to adjust.

4

Press **AUTO** to exit.

	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

1

Press **MENU** (Menu) to display menu.

2

Press < or > to select  (Image Setup), and press **MENU** to enter.

3

Press < or > to select submenu, press **MENU** to enter, and press < or > to adjust.

4

Press **AUTO** to exit.

	Clock	0-100	Adjust picture Clock to reduc e Vertical-Line noise.
	Phase 0-10	0-100	Adjust Picture Phase to reduc e Horizontal-Line noise
	H.Position	0-100	Adjust the hori zontal position of the picture.
	V.Position	0-100	Adjust the ver tical positi on of the picture.

Color Temperature

1

Press **MENU** (Menu) to display menu.

2

Press ‹ or › to select  (Color Temperature), and press **MENU** to enter.

3

Press ‹ or › to select submenu, press **MENU** to enter, and press ‹ or › to adjust.

4

Press **AUTO** to exit.

	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

1

Press **MENU** (Menu) to display menu.

2

Press ‹ or › to select  (Color Boost), and press **MENU** to enter.

3

Press ‹ or › to select submenu, press **MENU** to enter, and press ‹ or › to adjust.

4

Press **AUTO** to exit.

	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

OSD Setup

1

Press **MENU** (Menu) to display menu.

2

Press < or > to select  (OSD Setup), and press **MENU** to enter.

3

Press ∧ or ∨ to select submenu, and press < or > to adjust.

4

Press **AUTO** to exit.

	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

1

Press **MENU** (Menu) to display menu.

2

Press ‹ or › to select  (OSD Setup), and press **MENU** to enter.

3

Press ‹ or › to select submenu, press **MENU** to enter, and press ‹ or › to adjust.

4

Press **AUTO** to exit.

	Input Select	Analog	Select Analog Sigal 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	1 to 24hrs	Select DC off time
	Information		Show th e info rmation of the main ima ge and s ub-image source

Reset

1

Press **MENU** (Menu) to display menu.

2

Press < or > to select  (Reset), and press **MENU** to enter.

3

Press < or > to select YES or NO.

4

Press **AUTO** to exit.

	Reset	yes or no	Reset the menu to default

Exit

1

Press **MENU** (Menu) to display menu.

2

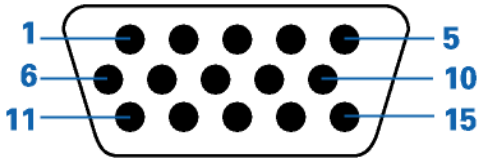
Press < or > to select  (Ex it); and press **MENU** to enter.

	Exit		Exit the main OSD

4. Input/Output Specification

4.1 Input Signal Connector

D-Sub 15pin 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

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.940
SVGA	800x600@60Hz	37.879	60.317
XGA	1024x768@60Hz	48.363	60.004
WXGA	1360x768@60Hz	47.712	60.015
	1366x768@60Hz	47.712	59.790

4.3. Panel Specification

CLAA156WB11A is 15.6” color (16:9) TFT-LCD (Thin Film Transistor Liquid Crystal Display) module composed of LCD panel, LVDS driver ICs, control circuit and backlight. By applying 6 bit digital data, 1366×RGB(3)×768, 262K-color images are displayed on the 15.6” diagonal screen.

4.3.1 General Feature

ITEM	SPECIFICATION
Display Area (mm)	344.232 (H)x193.536 (V) (15.6-inch diagonal)
Number of Pixels	1366 ×3(H)×768 (V)
Pixel Pitch (mm)	0.252 (H)×0.252(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	Normally white
Number of Colors	262,144(6bits)(LVDS)
Gamut	56%(min)/60%(typ)
Optimum Viewing Angle	6 o’clock
Response Time (ms)	8ms (Typ)
Surface Treatment	Glare
Viewing Angle	45° 、45° /20° 、35°(Typ.)
Brightness (cd/m^2)	220 cd/m^2 (5point)/20mA (Typ.) 200 cd/m^2 (5point)/20mA (Min.)
Uniformity	5 point : 80% 13 point : 65%
Consumption of Power (W)	5.5W (Max)
Module Size (mm)	359.8(W)×210(H)×5.5(D) (Max)
Module Weight (g)	450 (max)

4.3.2 Optical Characteristics

Ta=25℃, VDD=3.3V

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Contrast Ratio		CR	θ = ψ= 0°	400	500		--
Luminance (5P)		L	θ = ψ= 0°	200	220		cd/m^2
Uniformity(5P)		ΔL	θ = ψ= 0°	80			%
Uniformity(13P)		ΔL	θ = ψ= 0°	65			%
Response Time		Tr	θ = ψ= 0°		3	6	ms
		Tf	θ = ψ= 0°		5	10	ms
Cross talk		CT	θ = ϕ= 0°*3			1	%
View angle	Horizontal	Ψ	CR≧10	40/-40	45/-45		°
	Vertical	θ		15/-30	20/-35		°
Color Temperature Coordinate	W	X	θ = ψ= 0°	0.293	0.313	0.333	
		Y		0.309	0.329	0.349	
	R	X		0.590	0.620	0.650	
		Y		0.310	0.340	0.370	
	G	X		0.300	0.330	0.360	
		Y		0.540	0.570	0.600	
	B	X		0.120	0.150	0.180	
		Y		0.030	0.060	0.090	
Gamut			θ = ψ= 0°	56%	60%		
Gamma		γ	GL	2.0	2.2	2.4	

4.3.3 Electrical Characteristics

TFT LCD MODULE

TEM		SYMBOL	MIN	TYP	MAX	UNIT
LCD POWER VOLTAGE		VCC	3.0	3.3	3.6	V
LCD POWER CURRENT		ICC	-	303	333	mA
Rush CRRENT		Irush	-	-	2	A
LOGIC INPUT VOLTAGE (LVDS: IN+,IN-)	INPUT VOLTAGE	VIN	0	-	VCC	V
	COMMON VOLTAGE	VCM	1.125	1.25	1.375	V
	DIFFRENTIAL INPUT VOLTAGE	| VID |	100	350	600	mV
	THRESHOLD VOLTAGE (HIGH)	VTH	-	-	100	mV
	THRESHOLD VOLTAGE (LOW)	VTL	-100	-	-	mV

BACKLIGHT UNIT

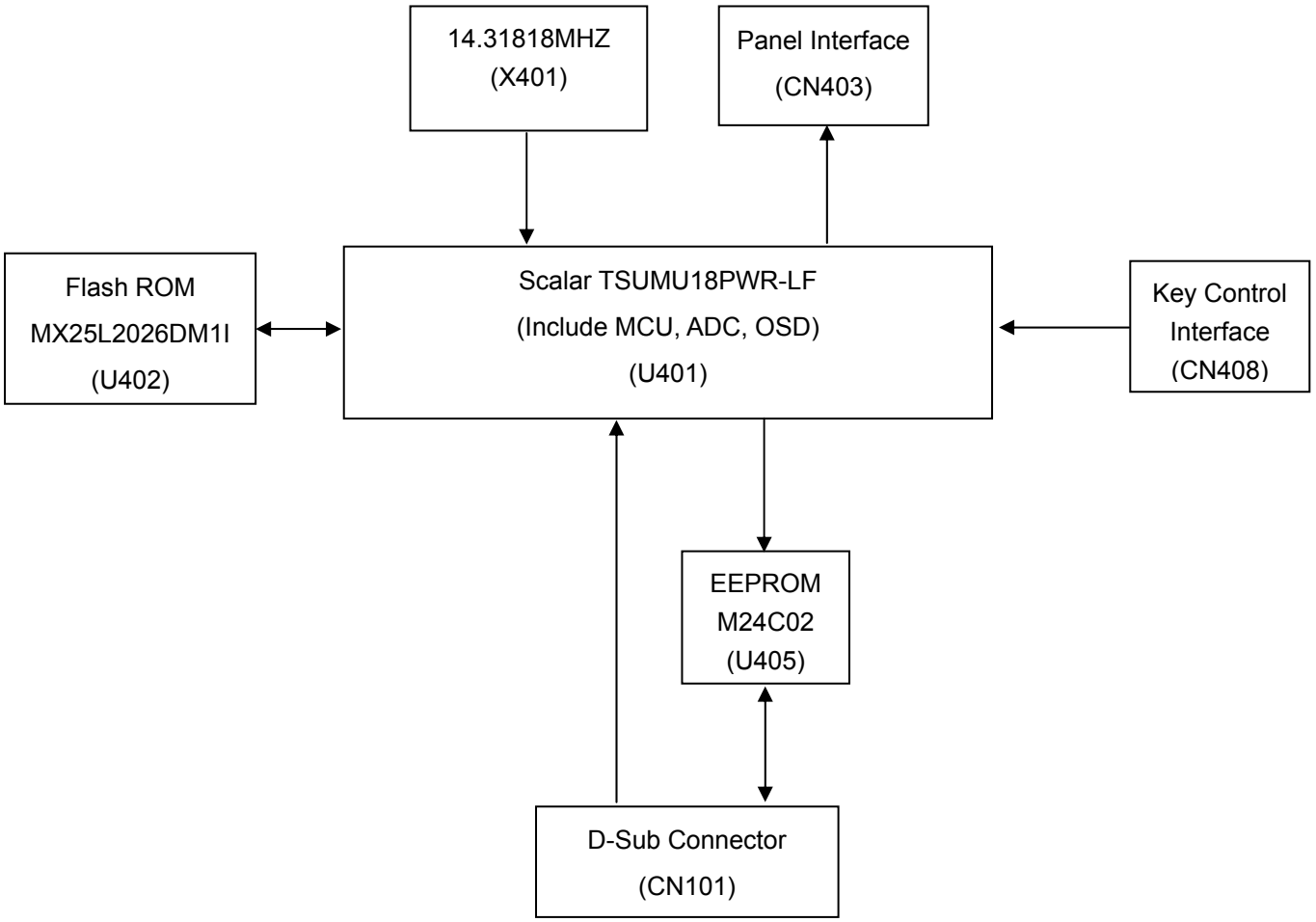
Ta = 25 ºC

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
LED Driver Input Voltage	VBL+	7	12	21	V
LED Driver Input Current	IBL+	-	-	650	mA
Forward Voltage	VF	2.9	3.2	3.5	V
Forward Current	IF	19.5	20	20.5	mA
Power consumption	PLED	3.92	4.2	4.4	W
PWM Frequency	PWM_BL	180	200	250	Hz
Duty ratio	Dim	10	-	100	%

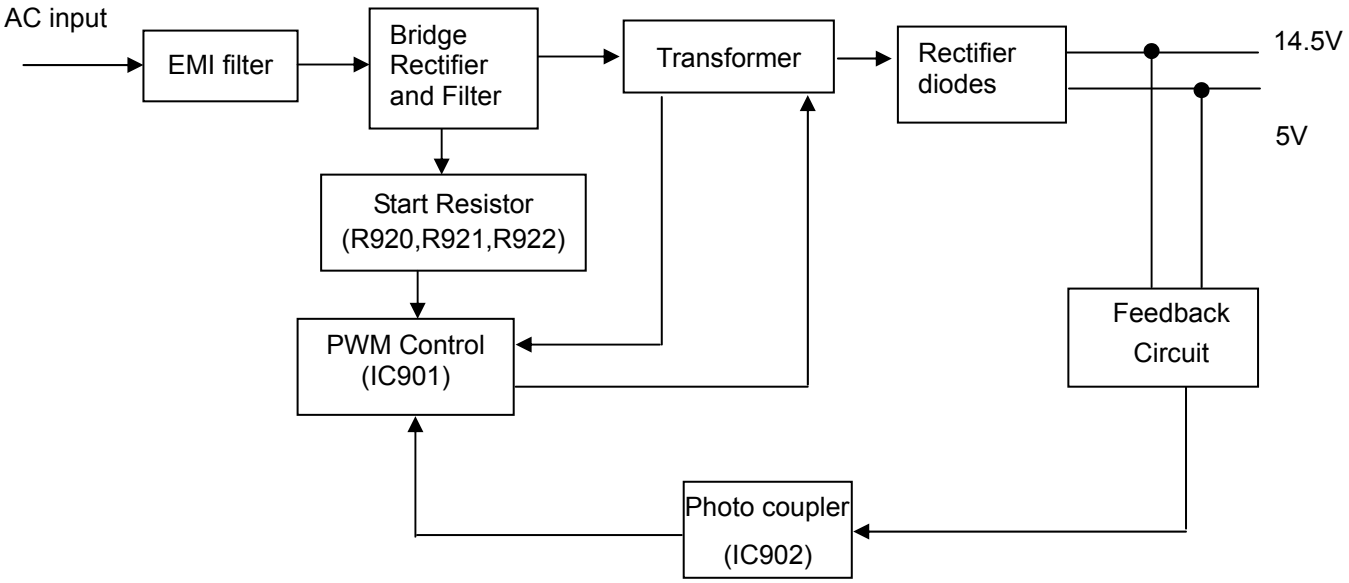
ITEM	Condition	min	typ	max	UNIT
LIFE TIME	I_F=20mA、Ta=25℃	15000	-	-	hrs

5. Block Diagram

5.1 Main board



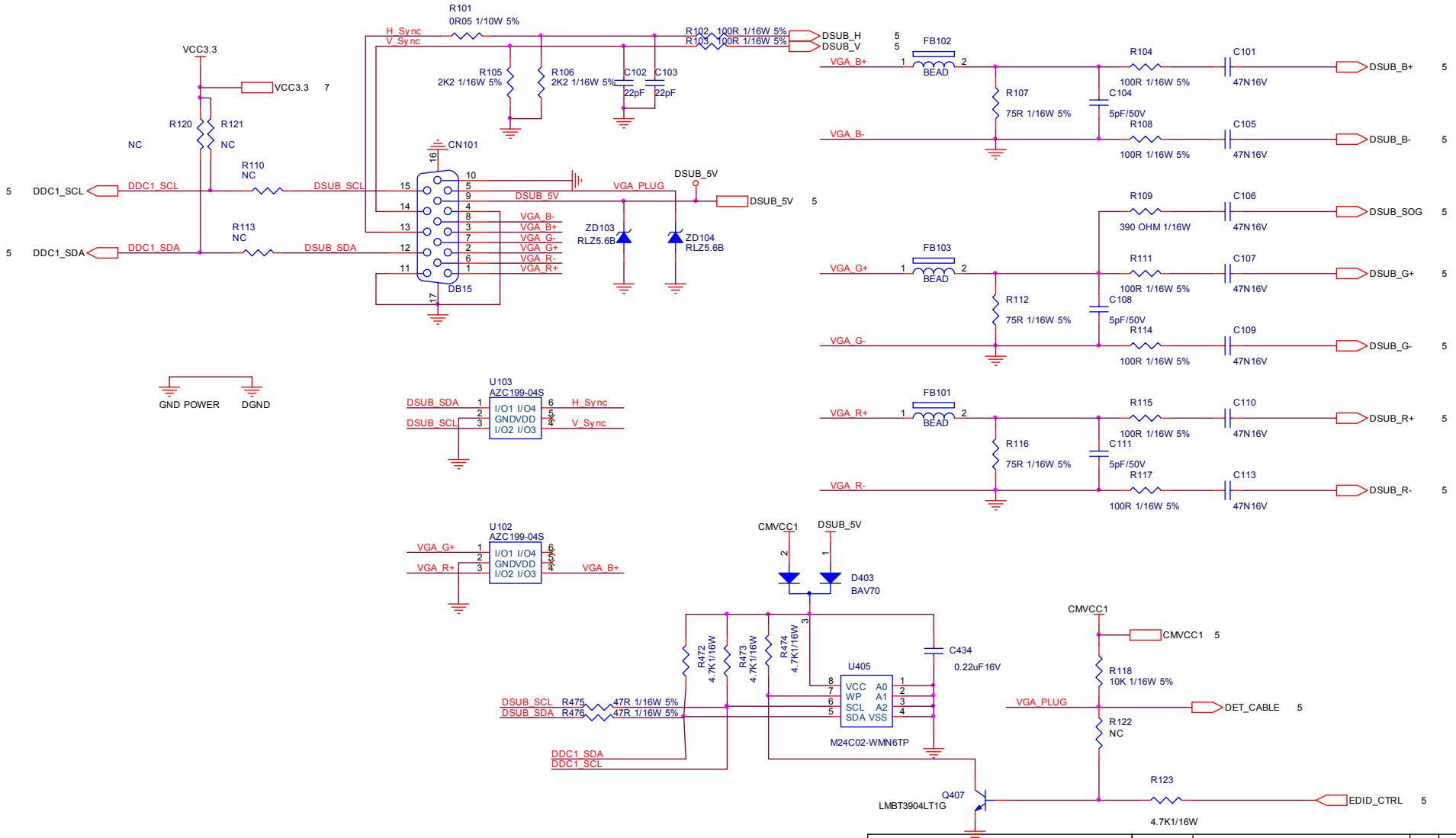
5.2 Power board



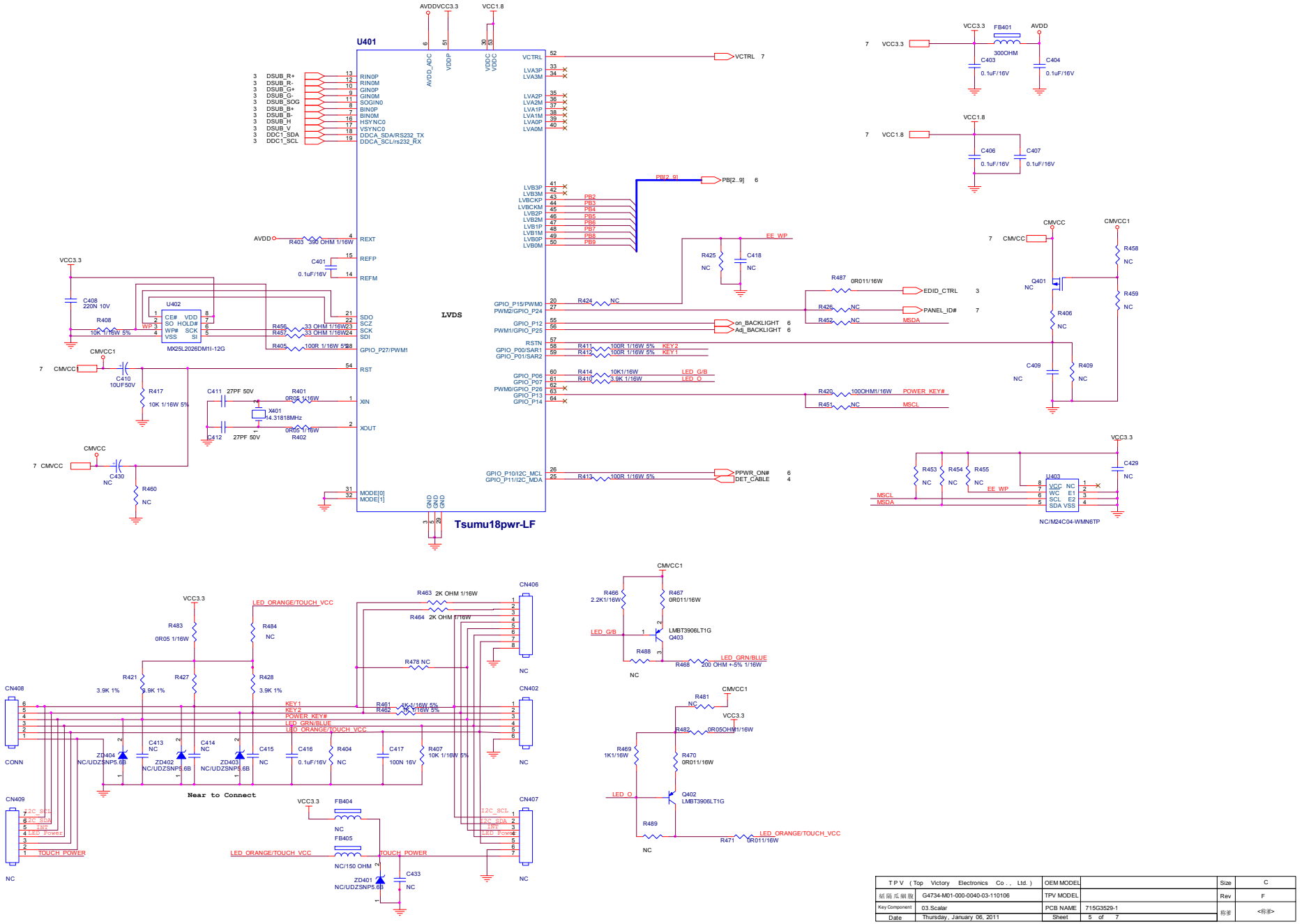
6. Schematic

6.1 Main Board

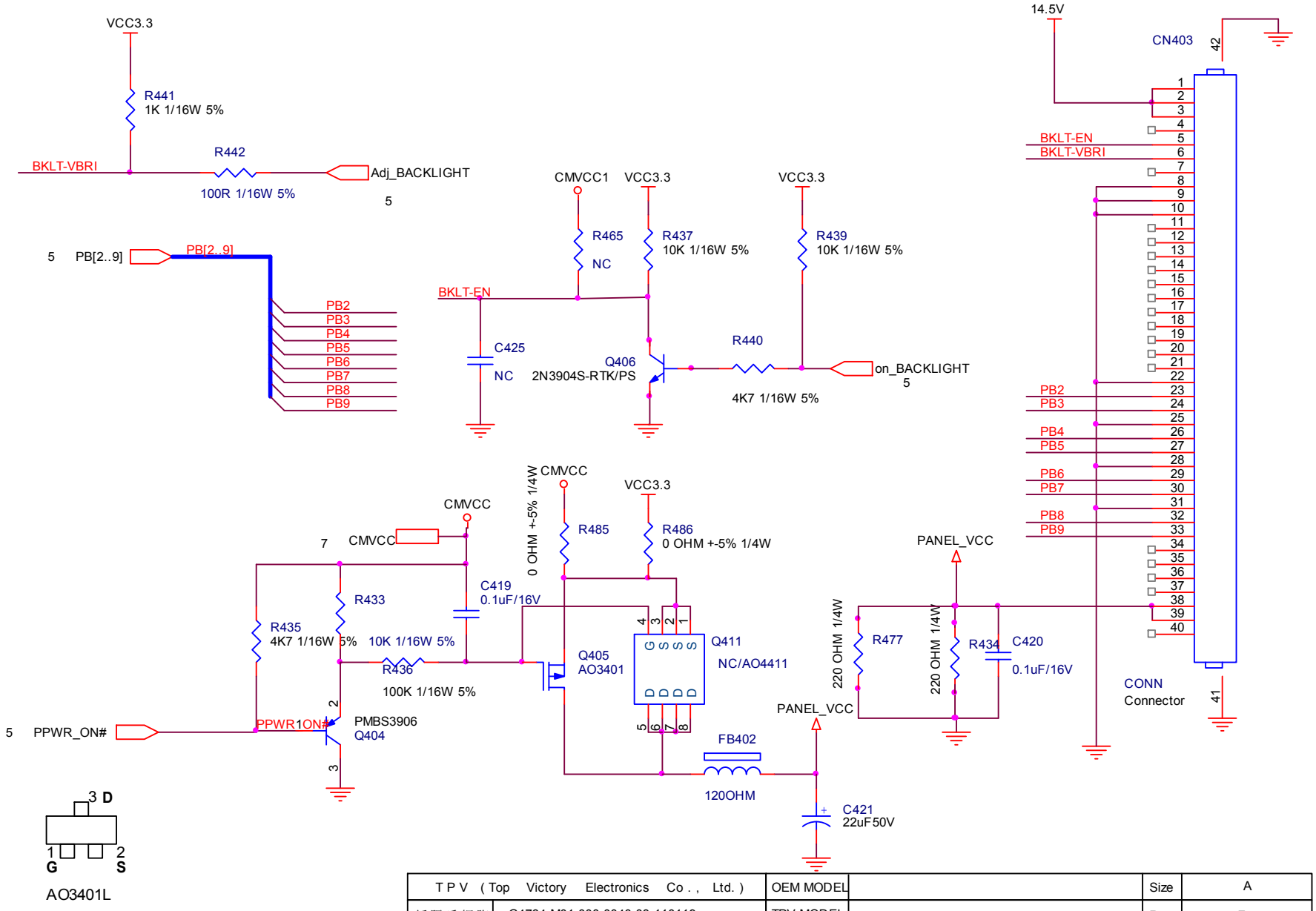
715G4734M01000004I



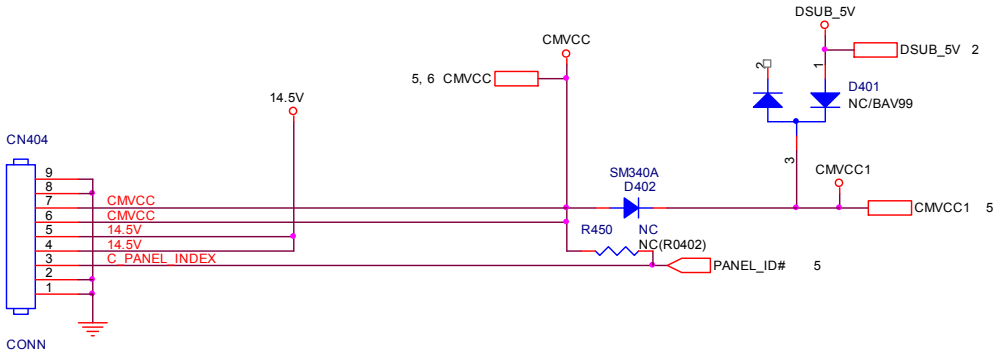
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	B
結 隔 瓜 綢 腹	G4734-M01-000-0040-03-110119	TPV MODEL		Rev	F
Key Component	02.Input	PCB NAME	715G3529-1	称爹	<称爹>
Date	Thursday, January 20, 2011	Sheet	4 of 7		

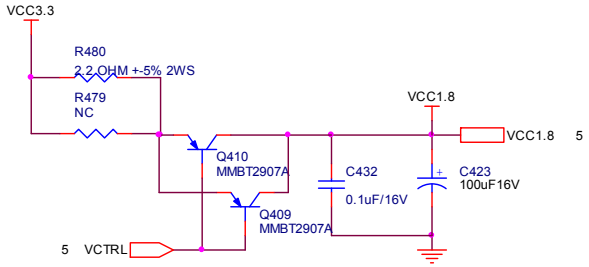


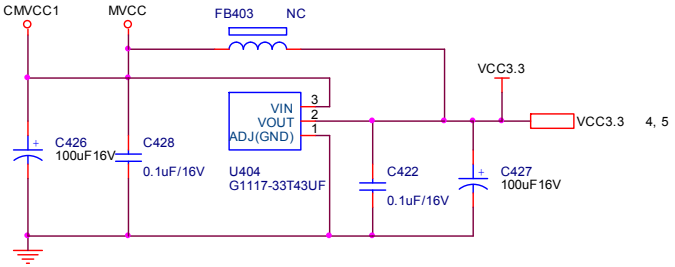
T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	C
紙隔瓜編腹	G4734-M01-000-0040-03-110106	TPV MODEL		Rev	F
Key Component	03.Scalar	PCB NAME	715G3529-1	称著	<称著>
Date	Thursday, January 06, 2011	Sheet	5 of 7		



T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	A
結 隔 瓜 綢 腹	G4734-M01-000-0040-03-110119	TPV MODEL		Rev	F
Key Component	04.Output	PCB NAME	715G3529-1	称爹	<称爹>
Date	Thursday, January 20, 2011	Sheet	6 of 7		



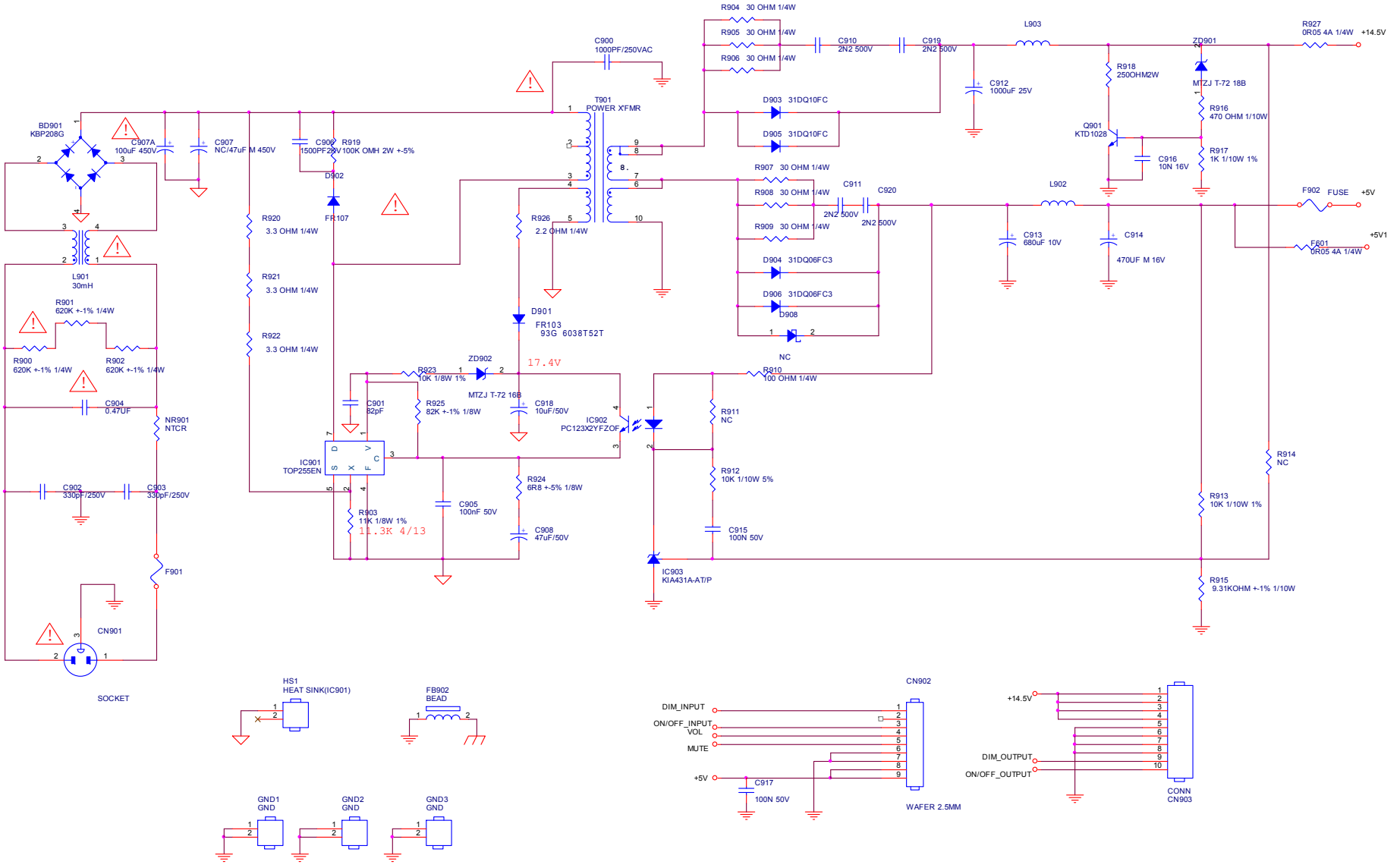




T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	B
結 隔 瓜 網 腹	G4734-M01-000-0040-03-110119	TPV MODEL		Rev	F
Key Component	05.Power	PCB NAME	715G3529-1	称爹	<称爹>
Date	Wednesday , March 09, 2011	Sheet	7 of 7		

6.2 Power Board

715G3189P02LED001S



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
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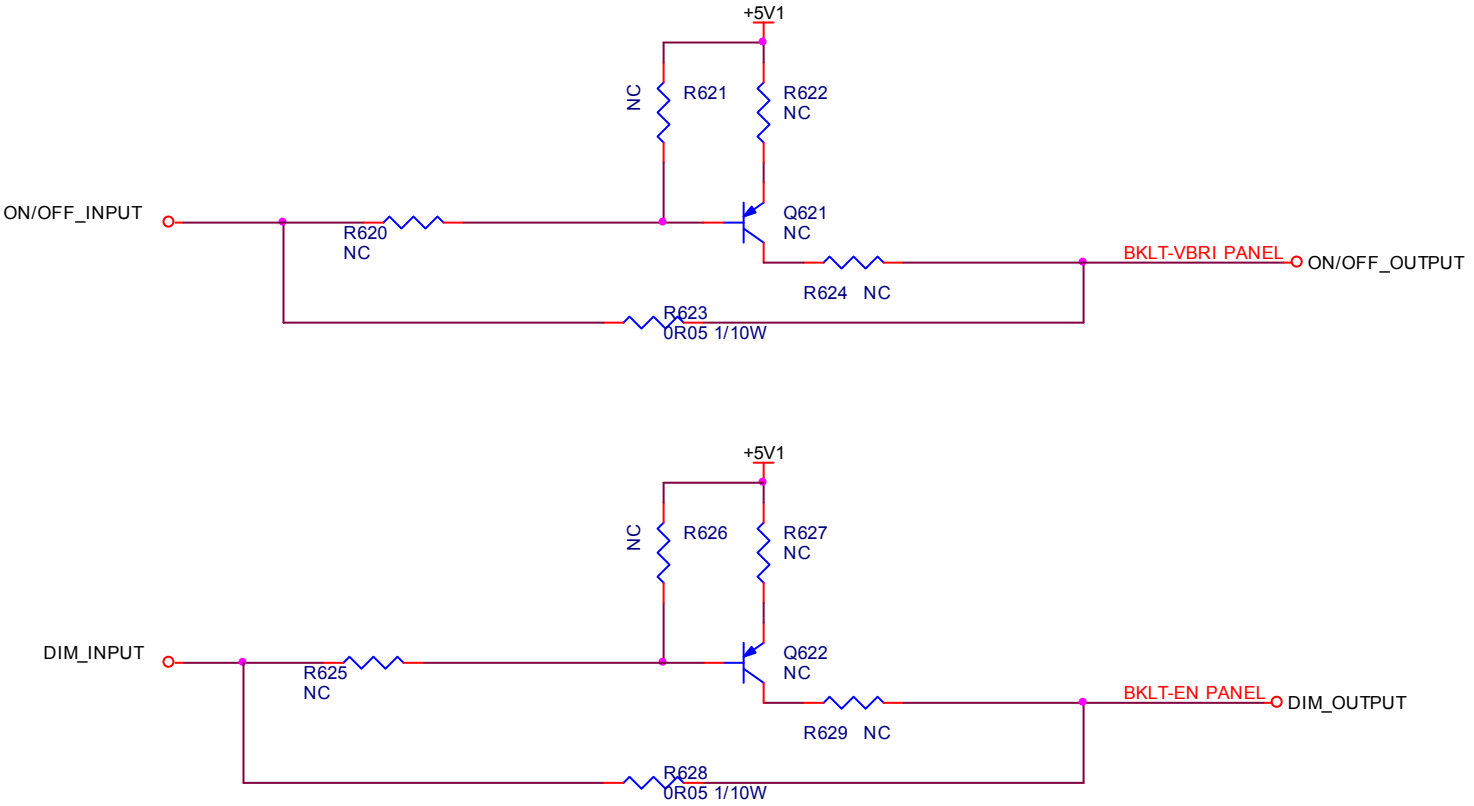
Key Component	02.POWER	PCB NAME	715G3189-PO1-LED	称签	ODM MODEL
Date	Monday, November 08, 2010	Sheet	of		



T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	A
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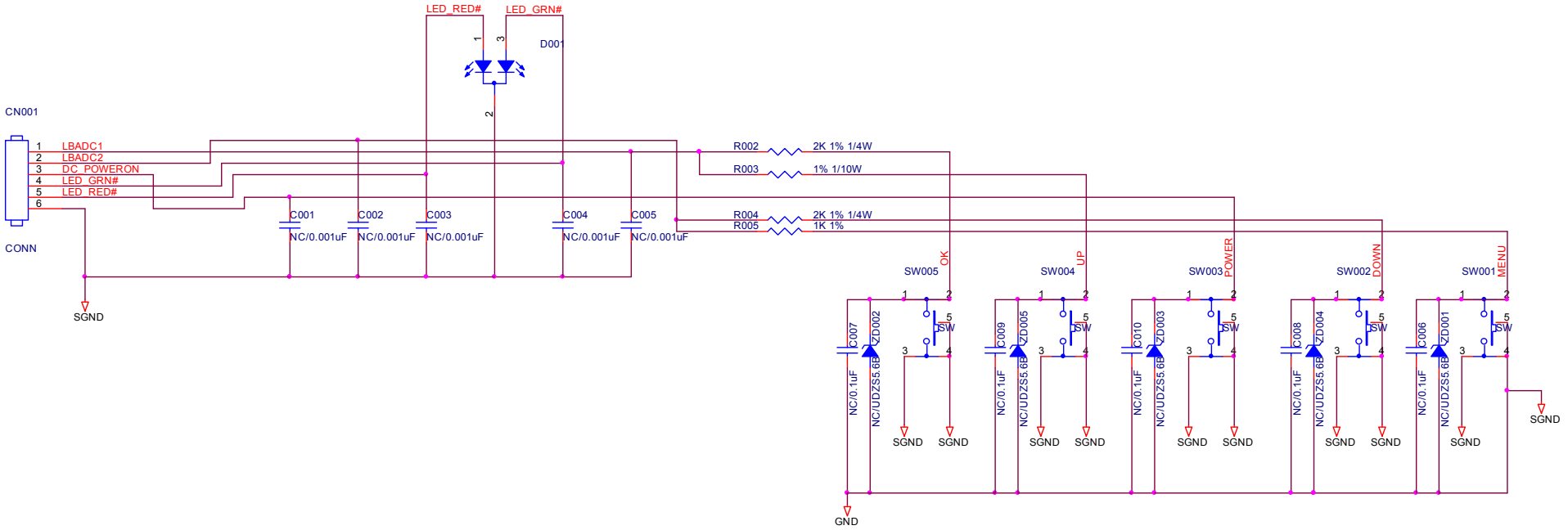
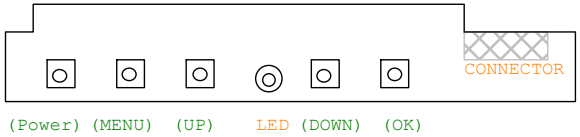
Key Component	04.BUFEER	PCB NAME	715G3189-PO1-LED	称爹	ODM MODEL
Date	Monday , Nov ember 08, 2010	Sheet	of		

6.3 Key Board

715G2835 2





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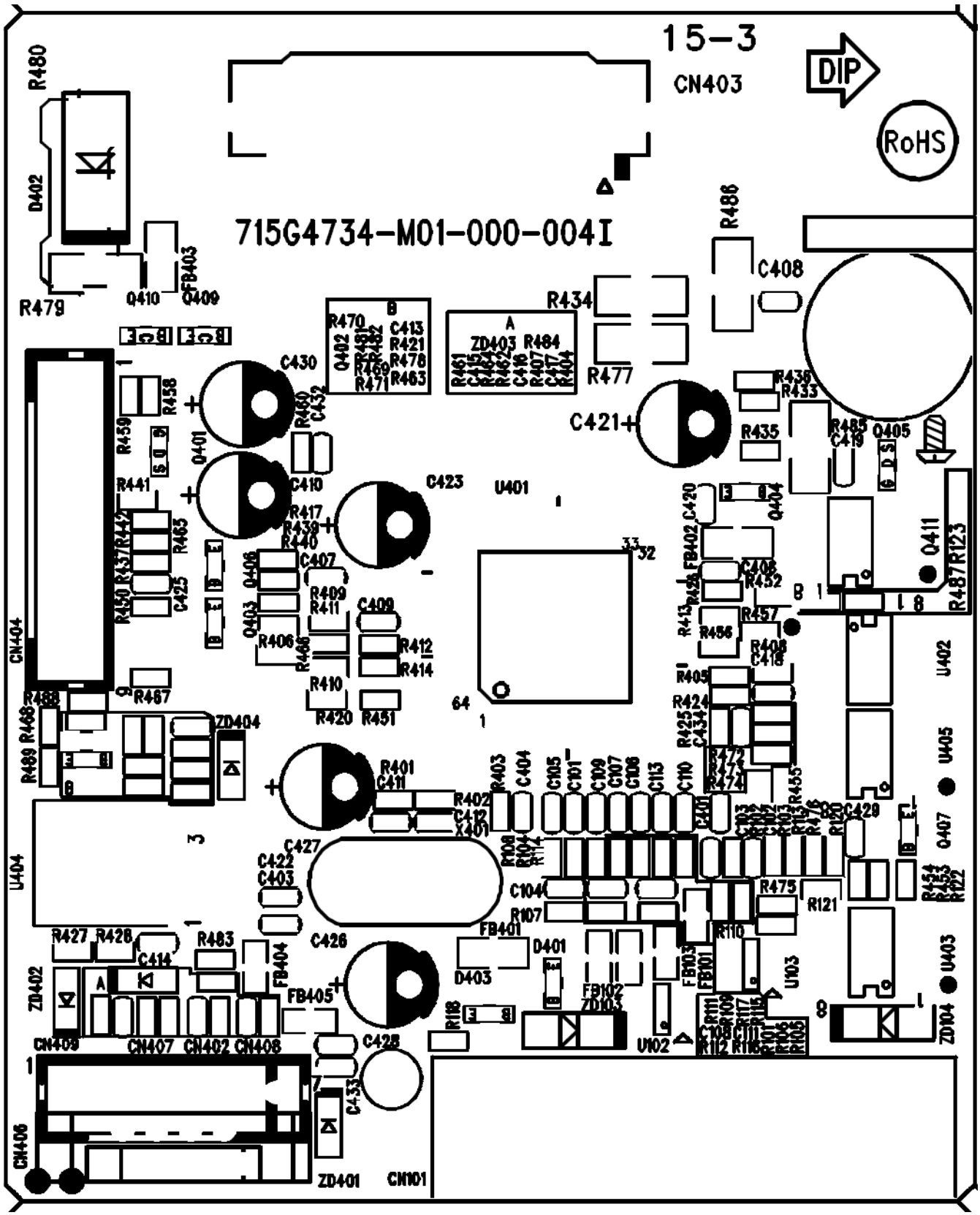
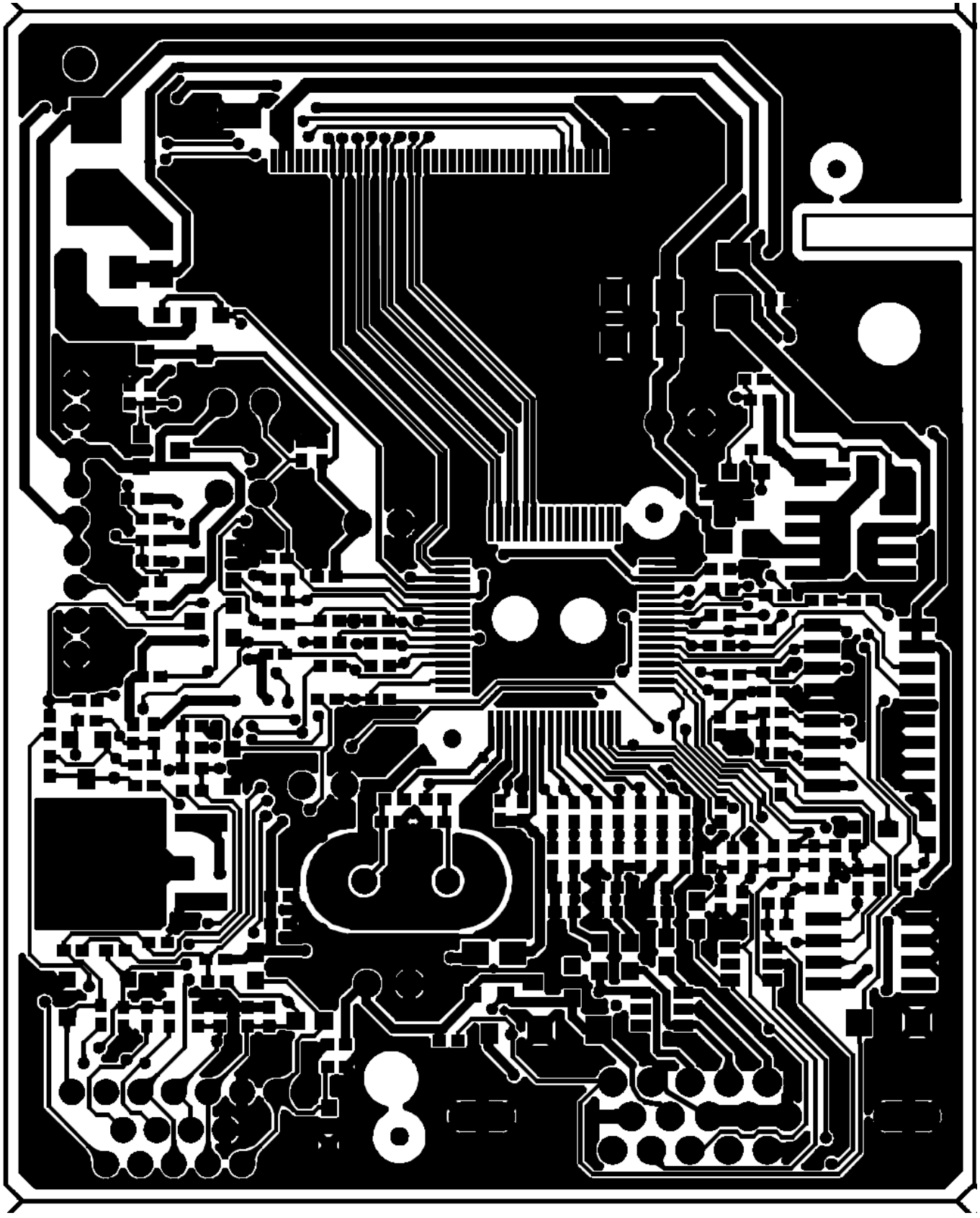
Key Component	2.0.key	PCB NAME	715G2835-2	称爹	<称爹>
Date	Thursday, December 16, 2010	Sheet	2 of 2		

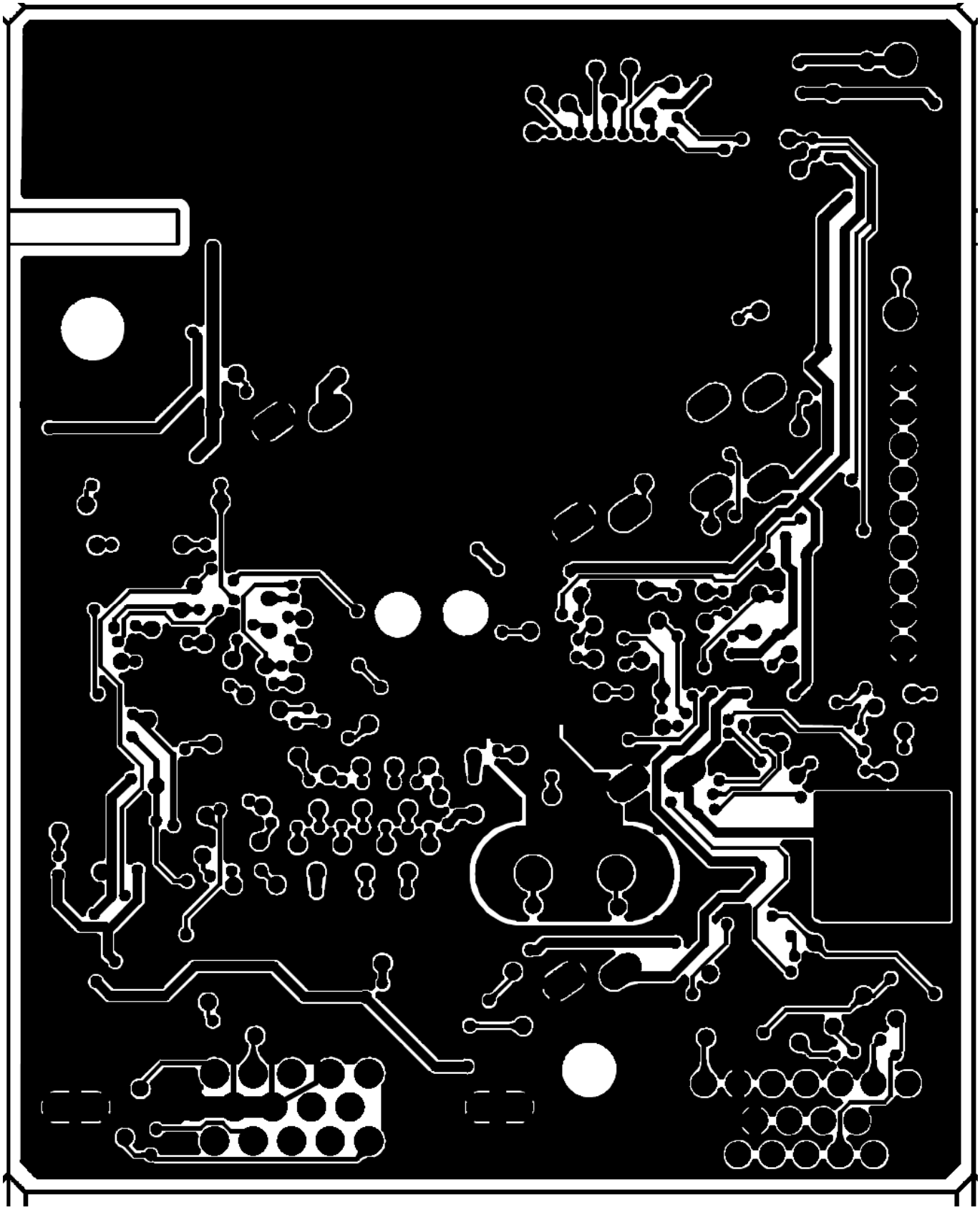
7. PCB Layout

7.1 Main Board

715G4734M01000004I

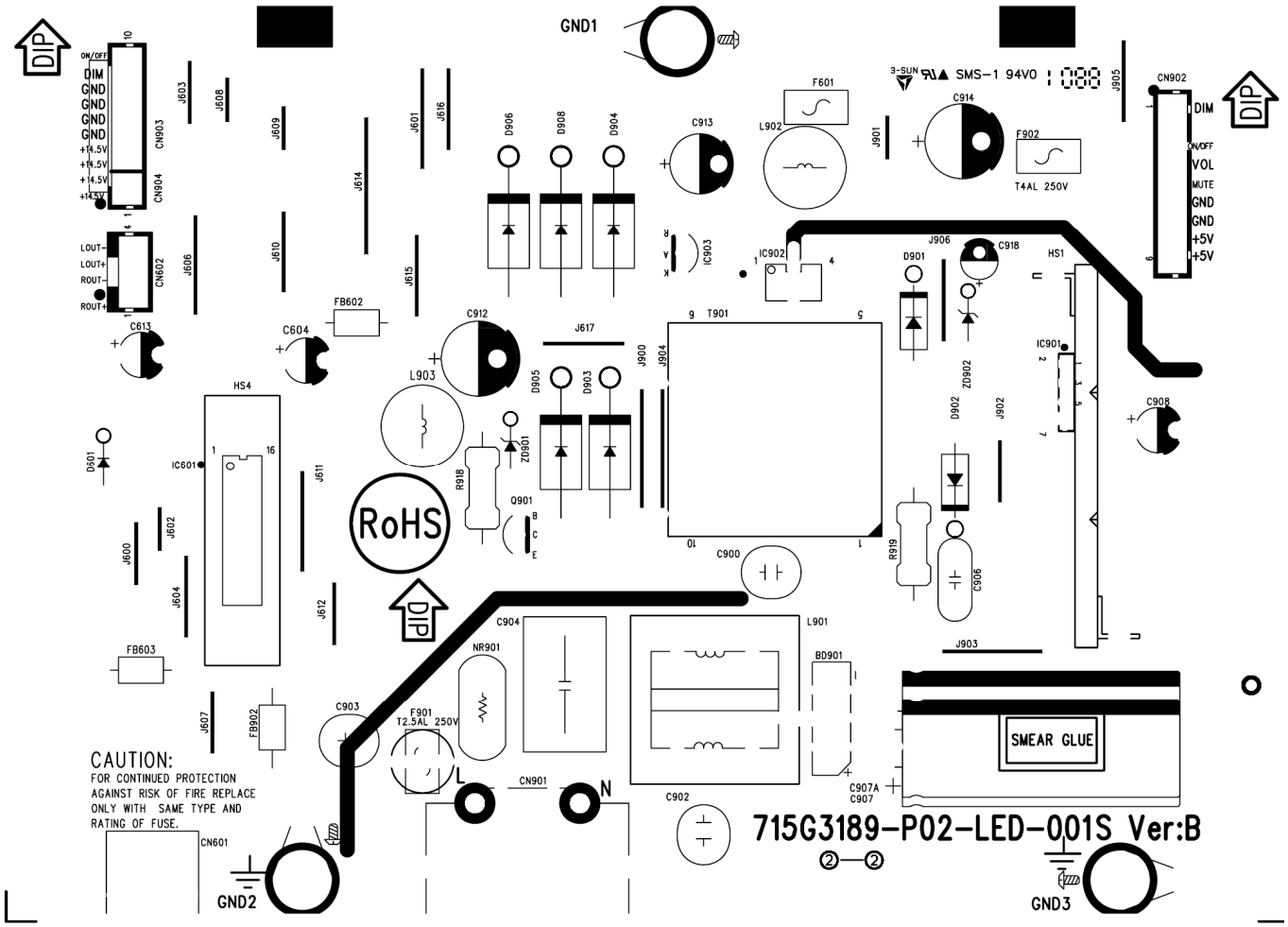


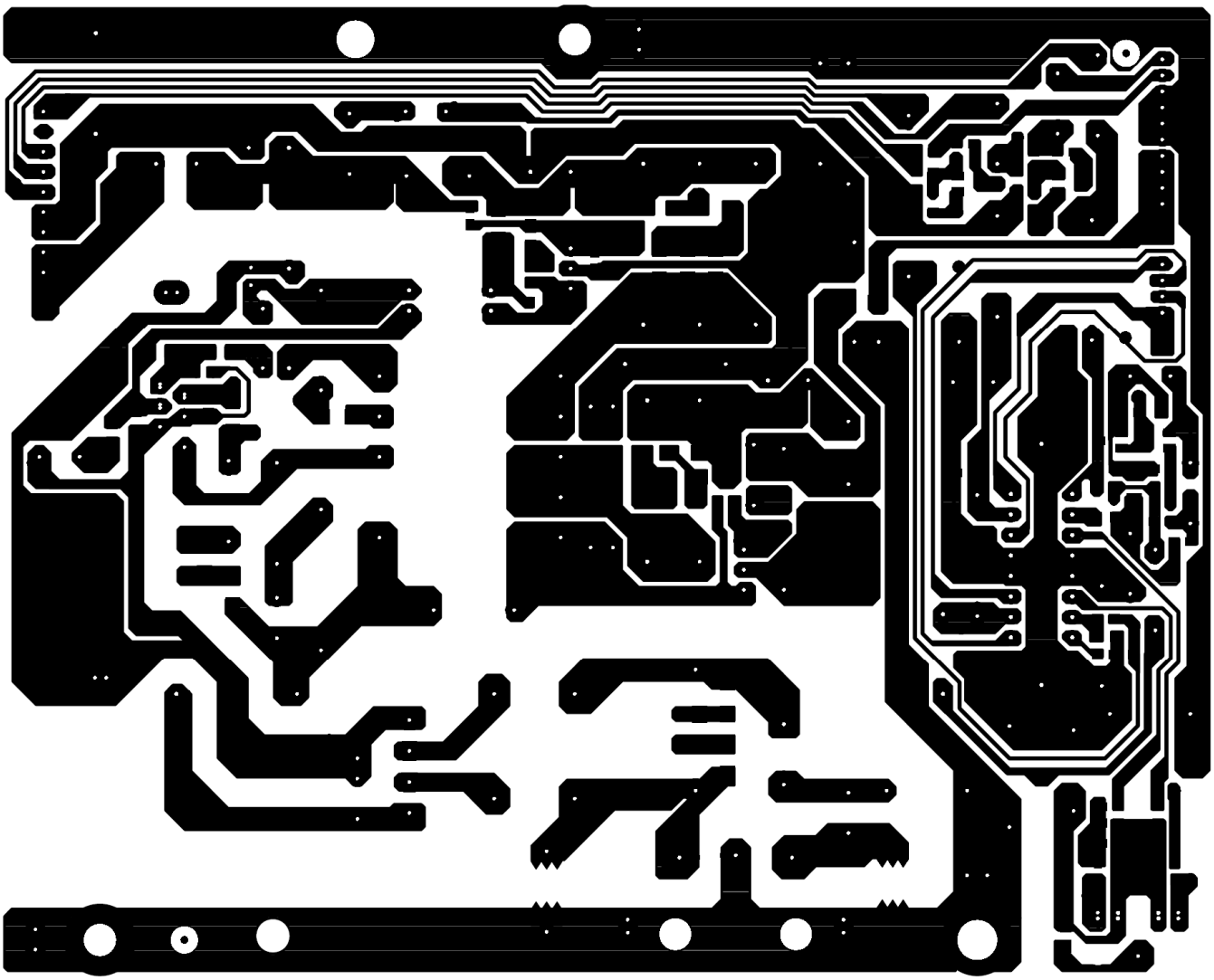


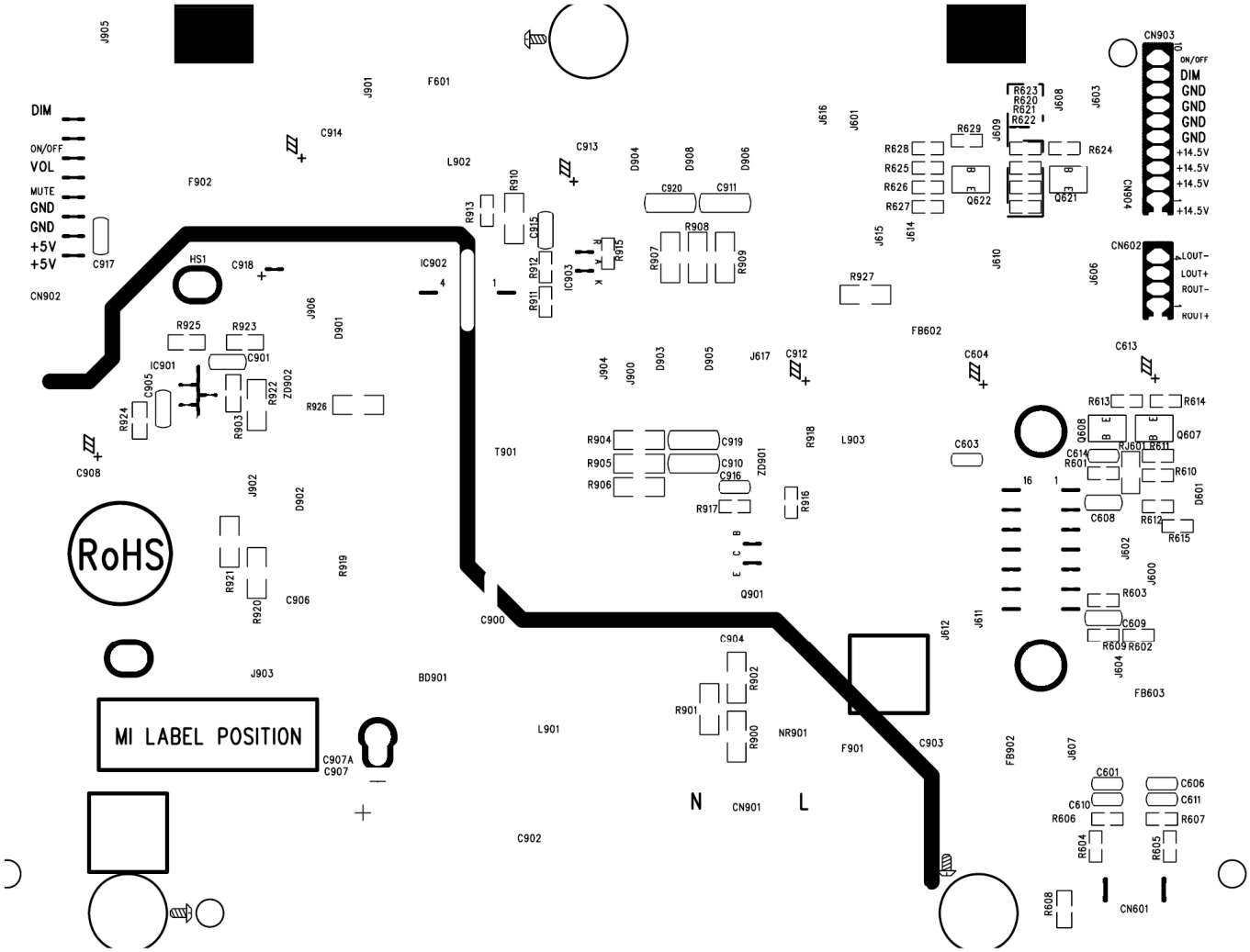


7.2 Power Board

715G3189P02LED001S

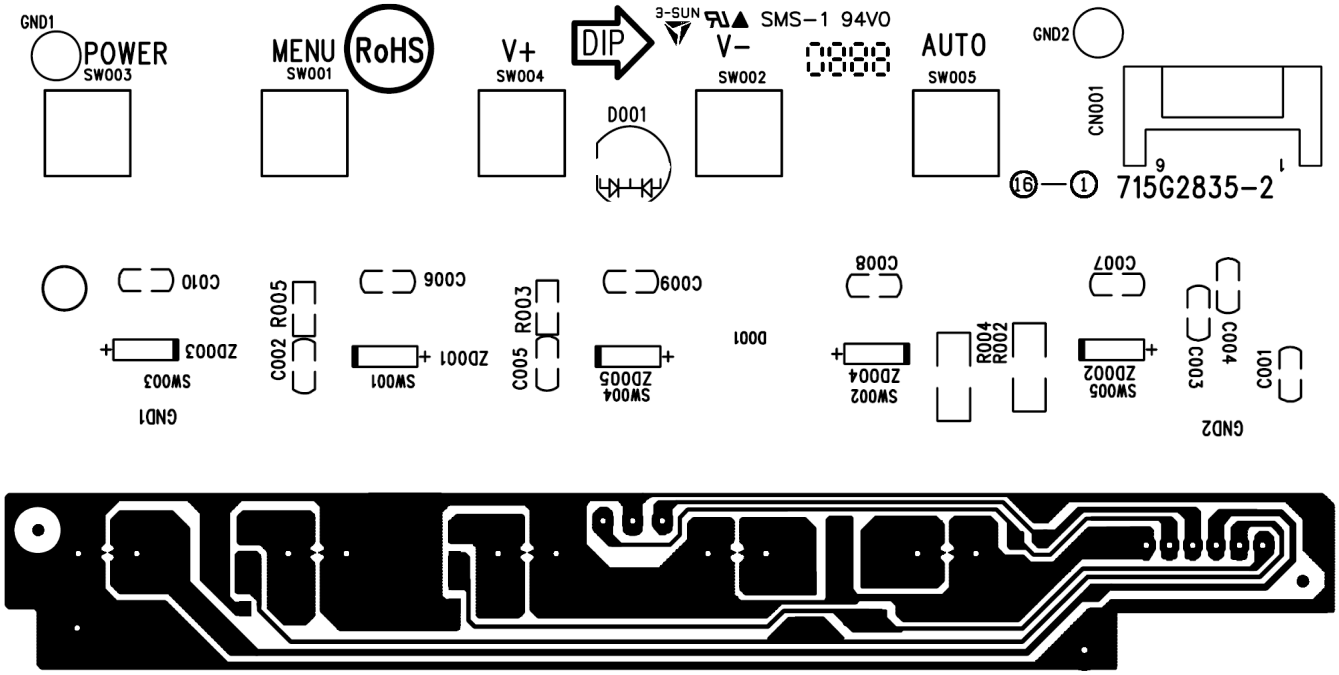





DIM
ON/OFF
VOL
MUTE
GND
GND
+5V
+5V
CN902
RoHS
MI LABEL POSITION
N
L
CN901
CN903
ON/OFF
DIM
GND
GND
GND
+14.5V
+14.5V
+14.5V
+14.5V
CN604
CN602
LOUT-
LOUT+
ROUT-
ROUT+
CN601

7.3 Key Board

715G2835 2



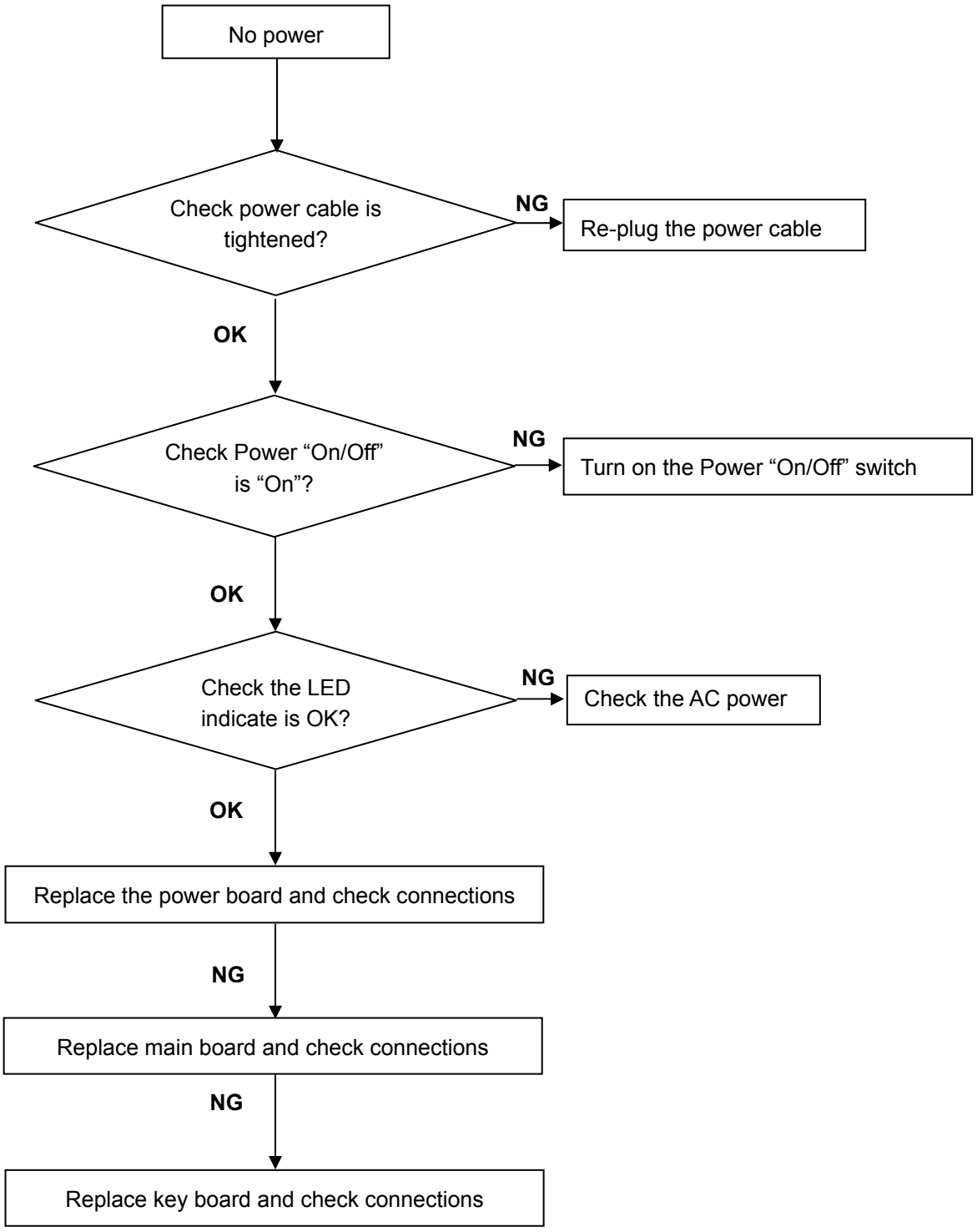
8. Maintainability

8.1 Equipments and Tools Requirement

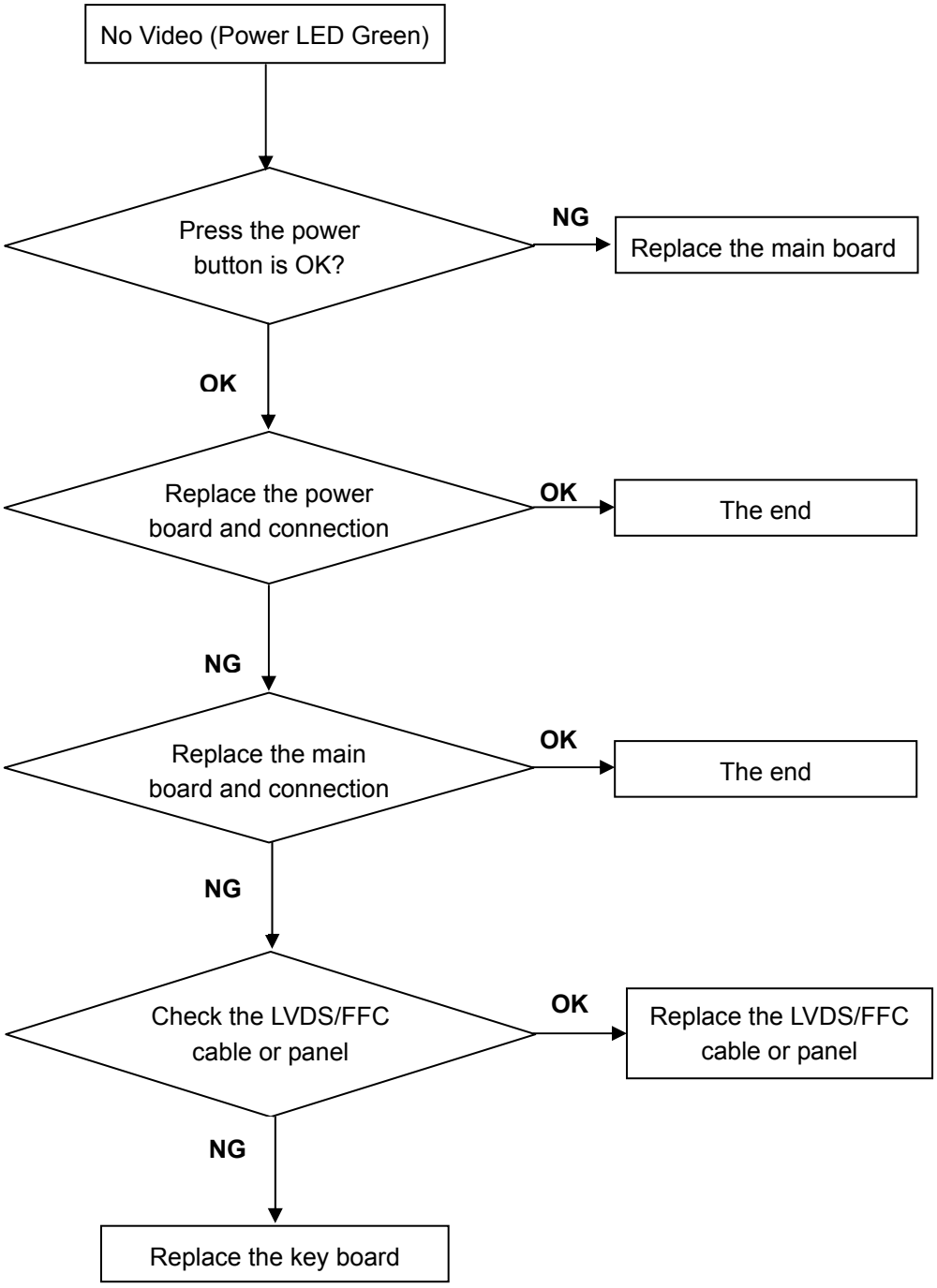
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

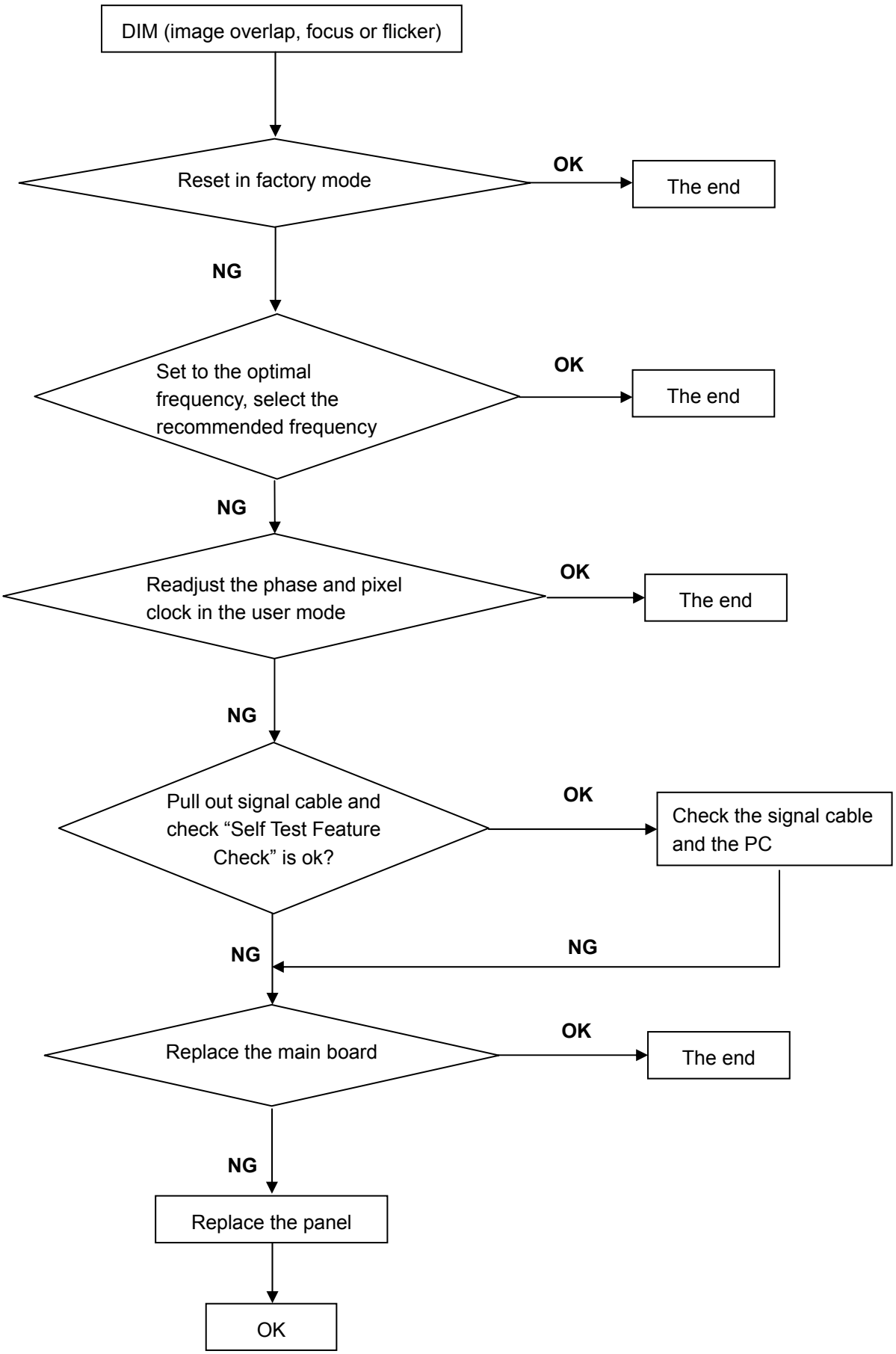
1. No Power



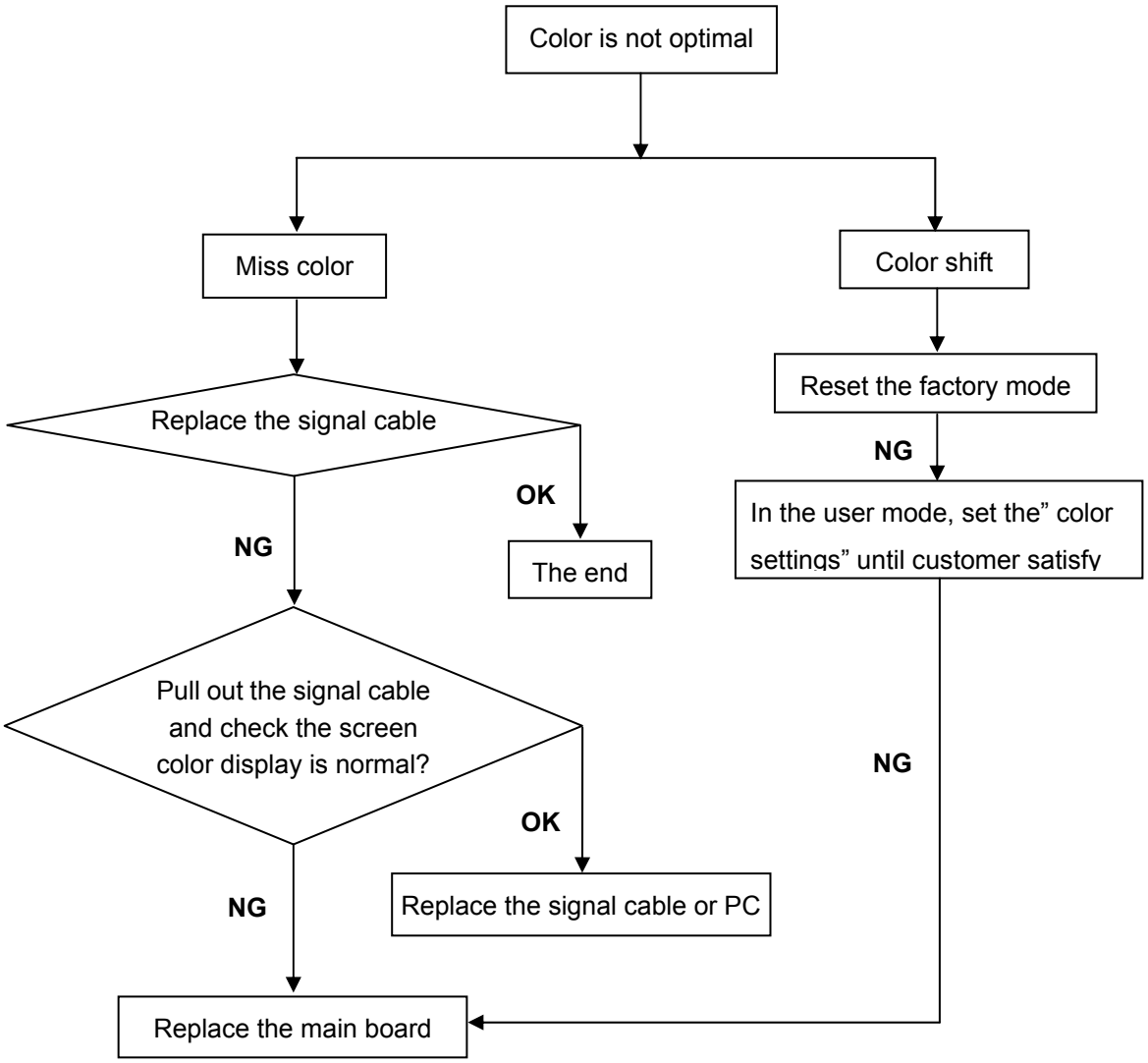
2. No Video (Power LED Green)



3. DIM


DIM (image overlap, focus or flicker)
Reset in factory mode
OK
The end
NG
Set to the optimal frequency, select the recommended frequency
OK
The end
NG
Readjust the phase and pixel clock in the user mode
OK
The end
NG
Pull out signal cable and check “Self Test Feature Check” is ok?
OK
Check the signal cable and the PC
NG
NG
Replace the main board
OK
The end
NG
Replace the panel
OK

4. Color is not optimal



9. White- Balance, Luminance Adjustment

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

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Warm (6500K) color, MEM Channel 4 to Normal (7300K) color, MEM Channel 9 to Cool (9300K) color , and MEM Channel 10 to sRGB color (our Warm color parameter is x = 313 ±30, y = 329 ±30, Y>150cd/m^2; Normal color parameter is x = 302 ±30, y = 318 ±30, Y>150cd/m^2; Cool color parameter is x = 283 ±30, y = 297 ±30, Y>130cd/m^2; sRGB color parameter is x = 313 ±30, y = 329 ±30, Y>150cd/m^2)

How to setting MEM channel you can reference to chroma 7120 user guide or simple 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 color):

Warm color temp. parameter is x = 313 ±30, y = 329 ±30, Y>150cd/m^2

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is x = 302 ±30, y = 318 ±30, Y>150cd/m^2

C. MEM.CHANNEL 9 (Cool color):

Cool color temp. parameter is x = 283 ±30, y = 297 ±30, Y>130cd/m^2

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y>150cd/m^2

3. Enter into Factory mode of AOC e1620Swb:

Press the MENU button, pull out the power cord, and then plug the power cord. You will enter into factory mode.

4. Bias adjustment:

Set the **Contrast**  to 50; Adjust the **Brightness**  to 80.

5. 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 ±30, y = 329 ±30, Y>150cd/m^2
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 reachedthe 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 = 302 ±30, y = 318 ±30, Y>150cd/m^2
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 reachedthe 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

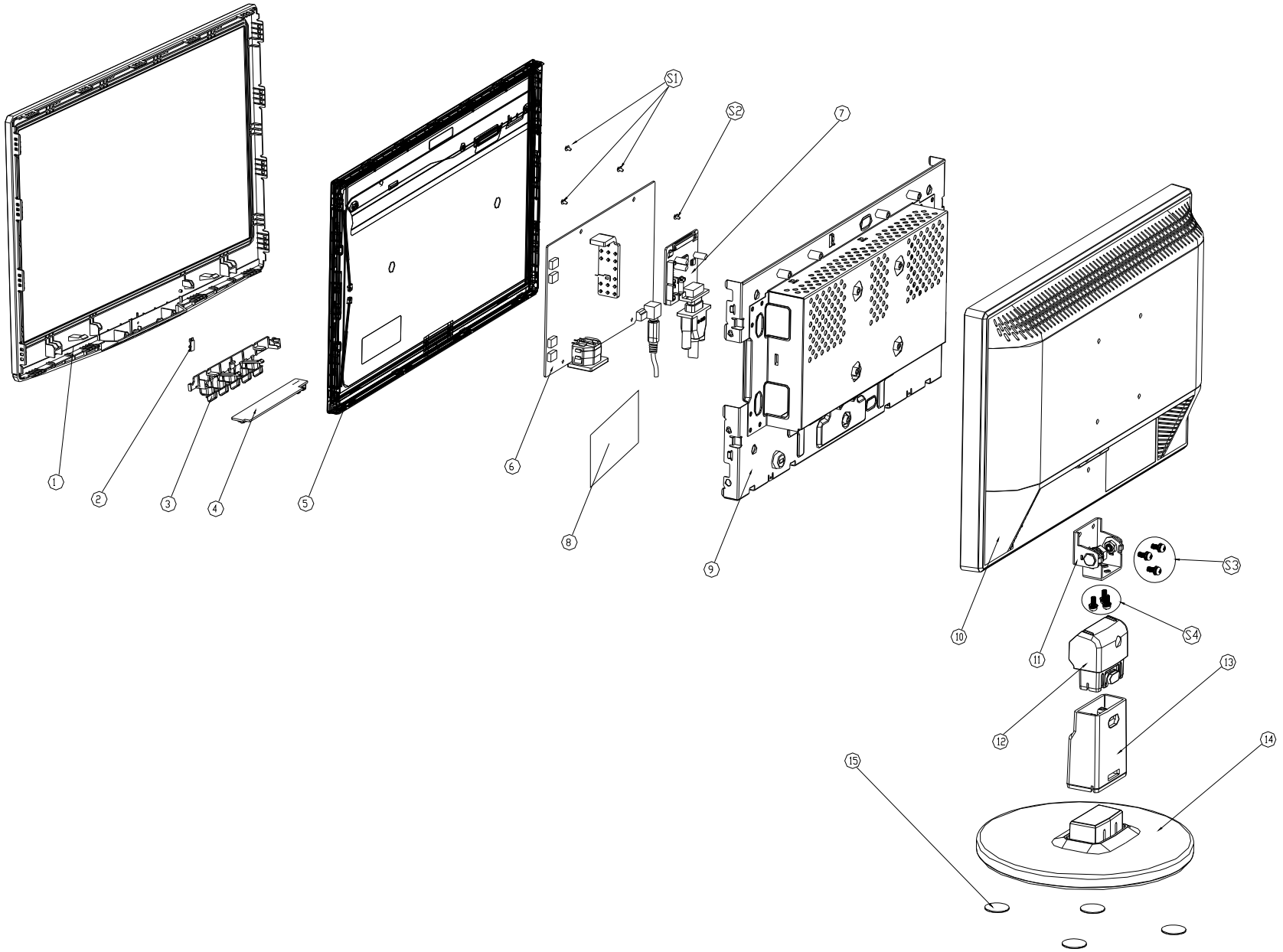
1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±30, y = 297 ±30, Y>130cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached 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

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 ±30, y = 329 ±30, Y>150cd/m^2
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 reachedthe value G=100
6. Adjust the BLUE of 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

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

10. Monitor Exploded View



No.	Description
1	BEZEL
2	LENS
3	KEY BUTTON
4	KEY BOARD
5	PANEL
6	POWER BOARD
7	MAIN BOARD
8	MYLAR
9	MAIN_FRAME
10	REAR COVER
11	HINGE 15.6
12	STAND TOP
13	STAND
14	BASE8S2
15	FOOT

No.	Part No.	Description
S1	0D1G1030 6120	SCREW M3X6(FOR PB/ MAIN_FRAME)
S2	0D1G1030 6120	SCREW M3X6(FOR MB/ MAIN_FRAME)
S3	AM1G1740 10 47 CR3	SCREW(FOR HINGE/MAIN_FRAME)
S4	AM1G1740 12225 CR3	SCREW(FOR HINGE/ STAND TOP)

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.

T6BCSR2EYHPUNN

Location	Part No.	Description	Remark
	052G 2191 A	PAPER TAPE	
	052G6019 1	INSULATING TAPE	
E08902	089G 725CAADBD	D-SUB CABLE 1500MM	2nd Source
E08902	089G 725HAADBD	D-SUB CABLE 1500MM	
	089G404A15N CX	AC POWER CORD 1500MM	
E09503	095G176J40N504	FFC CABLE 40PIN 560MM P0.5MM	
E09503	095G176W40N504	FFC CABLE 40PIN 560MM P0.5MM	2nd Source
E09501	095G8013 9W505	HARNESS 9P-10P+9P(H2506) 240/120	
E09501	095G8013 9X505	HARNESS 9P-10P+9P(H2506) 240/120	2nd Source
	095G8014 6WE31	HARNESS 6P-6P 140MM	
	707GQA12006	EMI ASS'Y	
	052G 1211 A	TASMA ALUMINIOWA	
E750	750NBC156WB112N000	LCD CLAA156WB11A 600 WJ CPT	2nd Source
E750	750NBC156WB122N000	LCD CLAA156WB11A 635 WJ CPT	
	756GQBCB AA003 00	MAIN BOARD-CBPCBSRA1QR	
SMTCB-U402	100GAMC6000YT1	MCU ASS'Y-056G2233501	
	801GQAEE557	L156W-8Q18-8S2 -ASS"Y	
	0D1G1030 6120	SCREW	
	AM1G1740 10 47 CR3	SCREW	
	Q12G6600 6	FOOT	
	Q15G1070101	MAIN_FRAME	
M37	Q37G0067017	HINGE 15.6	
	Q52G1801MNT066	INSULATING SHEET	
M37	SQ37G0067012	HINGE ASS'Y	
	015F0067210	SUPPORT	
	015F0067020	ACTIVE PLATE	
	004F0610051 01	WASHER	
	004F061210T 01	METAL WASHERS12.0*4.72*1.0T	
	004F061210M 00	METAL WASHERS12.0*6.03*4.70H	
	004F0612052 00	METAL WASHER	
	028F0817070	SHAFT	
	0M1F3050106	SCREW	
	002F0605100	SCREW NUTS M6.0*P1.0	
	802GQA34064	L156WA-8Q1A-8S2-STAND-ASS'Y	
	AM1G1740 12225 CR3	SCREW	
	Q34G0297AED 1B0100	STAND TOP	

	Q34G0298AED 1B0120	STAND	
	803GQA44051	L156W-8Q18-8S2 - EPS-ASS"Y	
	Q44G6011101	EPS	
	Q44G6011201	EPS	
	ADPCA1503QWV	ADAPTER BOARD G3189-P02-LED-X-19-101108	
	040G 45762412B	CBPC LABEL	
GND3	009G6005 1	GROUND TERMINAL	
GND2	009G6005 1	GROUND TERMINAL	
GND1	009G6005 1	GROUND TERMINAL	
CN902	033G3278 9DK2W AC	WAFER 2.5MM 9P(2P NC) FOR ACER	2nd Source
CN902	033G3278 9DK2X AC	WAFER 2.5MM 9P(2P NC) FOR ACER	
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%	
C902	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
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	
D904	093G 60272	RECTIFIER SR540-MK23 5A 40V DO-27	
D906	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	
D906	093G 60923	DIODE SR504-30 DO-201AD	
D904	093G 60923	DIODE SR504-30 DO-201AD	
D905	093G 60924	DIODE SR510-22 DO-201AD	
D903	093G 60924	DIODE SR510-22 DO-201AD	
	705GQ956024	IC901 ASS'Y	
IC901	056G 581 20	IC TOP255EN ESIP-7C	
	0M1G 930 8120	SCREW 3X8	
	Q11G0026 1	CABLE CLIP	
HS1	Q90G6263 6	HEAT SINK	
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	
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	
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	
R909	061G1206300 JI	RST 30 OHM 5% 1/4W TA-I	
R908	061G1206300 JI	RST 30 OHM 5% 1/4W TA-I	
R907	061G1206300 JI	RST 30 OHM 5% 1/4W TA-I	
R906	061G1206300 JI	RST 30 OHM 5% 1/4W TA-I	
R905	061G1206300 JI	RST 30 OHM 5% 1/4W TA-I	
R904	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	
R902	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R901	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R900	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
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%	
C910	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C911	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C919	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C920	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C910	065G1206222B2K 3	CER 1206 2N2 500V X7R 10%	
C911	065G1206222B2K 3	CER 1206 2N2 500V X7R 10%	
C919	065G1206222B2K 3	CER 1206 2N2 500V X7R 10%	
C920	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	
C920	065G1206222B2K M	CAP 1206 2.2NF 10% 630V X7R	
C919	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 3918252T	ZENER MTZJ T-72 18B 16.82 0.5 DO-34	
ZD902	093G 3954752T	DIODE MTZJ16B SEMTECH	
ZD901	093G 39A0852T	GDZJ18B	
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	
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	
J601	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	
	040G 45762412B	CBPC LABEL	
CN408	033G3802 6B Y	CONN 6PIN 2.0	
CN404	033G3802 9B Y	CONNECTOR 9P 2.0	
R480	061G152M229 64 SY	RST MOFR 2.2 OHM +-5% 2WS FUTABA	
CN101	088G 35315F HD	D-SUB CONN F ATTACHED SCREW	
CN101	088G 35315F XH	D-SUB 15PIN VERTICAL CONN WITH SCREW	2nd Source
X401	093G 22 53 J	CRYSTAL 14.31818MHZ/32PF49US	
X401	093G 22 53 YC	CRYSTAL 14.31818MHZ/32PF 49U/S YC	
C410	067G 2151007NB	EC 10UF 50V 5*11.5MM PITCH 2.5MM	
C410	067G 2151007RB	EC 10UF M 50V 5*11MM	
C426	067G 3051013PB	EC 105C 100UF M 16V 5*11MM	
C423	067G 3051013PB	EC 105C 100UF M 16V 5*11MM	

C427	067G 3051013PB	EC 105C 100UF M 16V 5*11MM	
C421	067G 3152207KB	EC 22UF M 50V 5*11MM	
U401	056G 562383	SCALER TSUMU18PWR-LF LQFP-64	
U404	056G 563512	IC G1117-33T43UF 1A/3.3V TO-252	
U102	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U103	056G 662502	IC ESD AZC199-04S.R7G SOT23-6L	
U405	056G1133 34	EEPROM M24C02-WMN6TP 2KB SO-8	
U402	056G2233501	FLASH MX25L2026DM1I-12G 2MB SOP-8	
Q404	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q406	057G 417511	MMBT3904	
Q402	057G 417517	TRA LMBT3906LT1G -200MA/-40V SOT-23 LRC	
Q403	057G 417517	TRA LMBT3906LT1G -200MA/-40V SOT-23 LRC	
Q407	057G 417518	TRA LMBT3904LT1G 200MA/40V SOT-23 LRC	
Q406	057G 417518	TRA LMBT3904LT1G 200MA/40V SOT-23 LRC	
Q409	057G 417527	SMALLTRAN MMBT2907A -0.6 -60V SOT-23	
Q410	057G 417527	SMALLTRAN MMBT2907A -0.6 -60V SOT-23	
Q405	057G 763 1	AO3401 SOT23 BY AOS	
R401	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R402	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R467	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R470	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R471	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R482	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R483	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R487	061G0402000 FF	RST CHIPR MAX0R01 1/16W FENGHUA	
R487	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R483	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R482	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R471	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R470	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R467	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R402	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R401	061G0402000 JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R102	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R103	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R104	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R108	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R111	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R114	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R115	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	

R117	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R405	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R411	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R412	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R413	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R420	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R442	061G0402101 JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R405	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R411	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R117	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R115	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R114	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R111	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R108	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R104	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R103	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R102	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R412	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R413	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R420	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R442	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R441	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R461	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R462	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R469	061G0402102 JF	RST CHIPR 1KOHM +-5% 1/16W FENGHUA	
R469	061G0402102 JI	RST 0402 1K 5% 1/16W TA-I	
R462	061G0402102 JI	RST 0402 1K 5% 1/16W TA-I	
R461	061G0402102 JI	RST 0402 1K 5% 1/16W TA-I	
R441	061G0402102 JI	RST 0402 1K 5% 1/16W TA-I	
R439	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R437	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R433	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R417	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R408	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R407	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R118	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R414	061G0402103 JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R118	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	
R408	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	

R414	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	
R417	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	
R433	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	
R437	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	
R439	061G0402103 JI	TEST ONLY RST 0402 10K 5% 1/16W TA-I	
R436	061G0402104 JF	RST CHIPR 100KOHM +-5% 1/16W FENGHUA	
R436	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	
R468	061G0402201 JF	RST CHIPR 200 OHM +-5% 1/16W FENGHUA	
R468	061G0402201 JI	RST 0402 200R 5% 1/16W	
R466	061G0402202 JF	RST CHIPR 2KOHM +-5% 1/16W FENGHUA	
R464	061G0402202 JF	RST CHIPR 2KOHM +-5% 1/16W FENGHUA	
R463	061G0402202 JF	RST CHIPR 2KOHM +-5% 1/16W FENGHUA	
R466	061G0402202 JT	RST CHIP 2K 1/16W 5% TZAI YUAN	
R464	061G0402202 JT	RST CHIP 2K 1/16W 5% TZAI YUAN	
R463	061G0402202 JT	RST CHIP 2K 1/16W 5% TZAI YUAN	
R105	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	
R106	061G0402222 JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	
R105	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	
R106	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	
R456	061G0402330 JF	RST CHIPR 33 OHM +-5% 1/16W FENGHUA	
R457	061G0402330 JF	RST CHIPR 33 OHM +-5% 1/16W FENGHUA	
R457	061G0402330 JY	RST CHIPR 33 OHM £«-5£¥ 1/16W YAGEO	
R456	061G0402330 JY	RST CHIPR 33 OHM £«-5£¥ 1/16W YAGEO	
R109	061G04023900FF	RST CHIPR 390 OHM +-1% 1/16W FENGHUA	
R403	061G04023900FF	RST CHIPR 390 OHM +-1% 1/16W FENGHUA	
R109	061G04023900FI	TEST ONLY RST 0402 390R 1% 1/16W TA-I	
R403	061G04023900FI	TEST ONLY RST 0402 390R 1% 1/16W TA-I	
R428	061G04023901FF	RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA	
R427	061G04023901FF	RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA	
R421	061G04023901FF	RST CHIPR 3.9KOHM +-1% 1/16W FENGHUA	
R421	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	
R427	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	
R428	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	
R410	061G0402392 JF	RST CHIPR 3.9KOHM +-5% 1/16W FENGHUA	
R410	061G0402392 JI	TEST ONLY RST 0402 3.9K 5% 1/16W TA-I	
R410	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	
R475	061G0402470 JF	RST CHIPR 47 OHM 5% 1/16W FENGHUA	
R476	061G0402470 JF	RST CHIPR 47 OHM 5% 1/16W FENGHUA	
R475	061G0402470 JT	RST CHIP 47R 1/16W 5% TZAI YUAN	
R476	061G0402470 JT	RST CHIP 47R 1/16W 5% TZAI YUAN	

R123	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R435	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R440	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R472	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R473	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R474	061G0402472 JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R474	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R473	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R472	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R440	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R435	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R123	061G0402472 JY	RST CHIPR 4.7KOHM +-5% 1/16W YAGEO	
R107	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R112	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R116	061G0402750 JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
R107	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	
R116	061G0402750 JI	TEST ONLY RST 0402 75R 5% 1/16W TA-I	
R101	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	
R101	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R486	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
R486	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	
R486	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	
R434	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
R477	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	
R434	061G1206221 JI	RST 1206 220R 5% 1/4W	
R477	061G1206221 JI	RST 1206 220R 5% 1/4W	
C419	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C417	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C416	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C407	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C406	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C404	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C403	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C401	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C420	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C422	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C428	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C432	065G040210412K T	CAP CHIP 0402 100NF 16V X7R	
C432	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	

C428	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C422	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C420	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C419	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C417	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C416	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C407	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C406	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C404	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C403	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C401	065G040210412K	Y	CAP 0402 100NF 10% 16V X7R
C103	065G040222031J	T	CAP CHIP 0402 22PF J 50V NPO
C102	065G040222031J	T	CAP CHIP 0402 22PF J 50V NPO
C103	065G040222031J	Y	CAP CHIP 0402 22P 50V NP0 +/-5%
C102	065G040222031J	Y	CAP CHIP 0402 22P 50V NP0 +/-5%
C434	065G040222417Z	T	CAP CHIP 0402 0.22UF 16V Y5V
C434	065G040222417Z	Y	NO-SUGGEST 0402 220NF 16V Y5V
C408	065G0402224A5K	A	CAP 0402 220NF K 10V X5R
C408	065G0402224A5K	Y	CAP CHIP 0402 220N 10V X5R +/-10%
C412	065G040227031J	A	CAP 0402 27PF 5% 50V NP0
C411	065G040227031J	A	CAP 0402 27PF 5% 50V NP0
C412	065G040227031J	Y	CAP CHIP 0402 27P 50V NP0 +/-5%
C411	065G040227031J	Y	CAP CHIP 0402 27P 50V NP0 +/-5%
C113	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C110	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C109	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C107	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C106	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C105	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C101	065G040247312K	A	CAP 0402 47NF 10% 16V X7R
C113	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C110	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C109	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C107	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C106	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C105	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C101	065G040247312K	T	CAP 0402 47NF 10% 16V X7R
C111	065G040250931J	T	NO-SUGGEST CAP CHIP 0402 5PF 50V NPO
C108	065G040250931J	T	NO-SUGGEST CAP CHIP 0402 5PF 50V NPO
C104	065G040250931J	T	NO-SUGGEST CAP CHIP 0402 5PF 50V NPO

C104	065G040250931J Y	NO-SUGGEST 0402 5PF 50V NPO	
C108	065G040250931J Y	NO-SUGGEST 0402 5PF 50V NPO	
C111	065G040250931J Y	NO-SUGGEST 0402 5PF 50V NPO	
FB402	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB401	071G 56V301 B	CHIP BEAD 0805 300R 25% 700MA	
FB101	071G 59K190 B	CHIP BEAD 0603 19 OHM FCB1608KF-190T05	
FB102	071G 59K190 B	CHIP BEAD 0603 19 OHM FCB1608KF-190T05	
FB103	071G 59K190 B	CHIP BEAD 0603 19 OHM FCB1608KF-190T05	
D403	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
ZD103	093G 39GA01 T	RLZ5.6B	
ZD104	093G 39GA01 T	RLZ5.6B	
D402	093G3004 3	SM340A	
CN403	311GF050B40ADH	FFC CONN 0.5MM 40P	
	715G4734M01000004I	MAIN PCB FR4 DS 57*70*1.6MM	
	Q90G6332 1	HEAT SINK	
	KEPCAQR1	KEY BOARD G2835-2-X-X-11-101216	
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0	
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	061G06030001FF	NO-SUGGEST MAX0R01 1% 1/10W	
R003	061G06030001FY	RST CHIPR 0 OHM +-1% 1/10W YAGEO	
R005	061G06031001FI	1EST ONLY RST 0603 1K 1% 1/10W TA-I	
R005	061G06031001FT	RST CHIP 1K 1/10W 1%	
R002	061G12062001FI	RST 1206 2K 1% 1/4W	
R004	061G12062001FI	RST 1206 2K 1% 1/4W	
R002	061G12062001FT	RST CHIP R 2KOHM 1/4W +/-1%	
R004	061G12062001FT	RST CHIP R 2KOHM 1/4W +/-1%	
	709G2835 QS001	CONSUMPTIVE ASS'Y	
SW005	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW001	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW002	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW004	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW003	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW003	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW005	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW001	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW002	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	
SW004	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	

	709G2835 QA001	CONSUMPTIVE ASS'Y	
	715G2835 2	KEY PCB FR-1 S/S 116X17MM	
	Q33G0370ABJ 1L0100	KEY BUTTON	
	Q33G0371 1 1C0100	LENS	
	Q34G0274ABJA5B0100	REAR COVER	
	Q34G0299AED 1B0133	BASE8S2	
	Q34G7042AEDB2B0130	BEZEL	
	Q40G 15N61576A	RATING LABEL	
	Q40G000161514A	CARTON LABEL	
	Q40G000362423A	LABEL --	
	Q41G78S161514A	E1620SW QSG	
	Q44G6011615 4A	15.6"CARTON E1620SWB	
	Q45G 77 4	PE FILM	
	Q45G 88609201	EPE BAG	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 99	BIG CARTON TAPE FOR AOC	
	Q70G16C1615 6A	E1620SWB CD MANUAL	
	Q41G2009615 5A	WARRANTY CARD	
	Q41G7800615A74	MANUAL	
	Q45G2010M0201A	P.E. BAG (INSTR. BOOK)	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	Q26G 800504 2B	BARCODE LABEL FOR 3	