

Service
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Service Manual

Horizontal Frequency
30-83 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

[illegible]

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.)

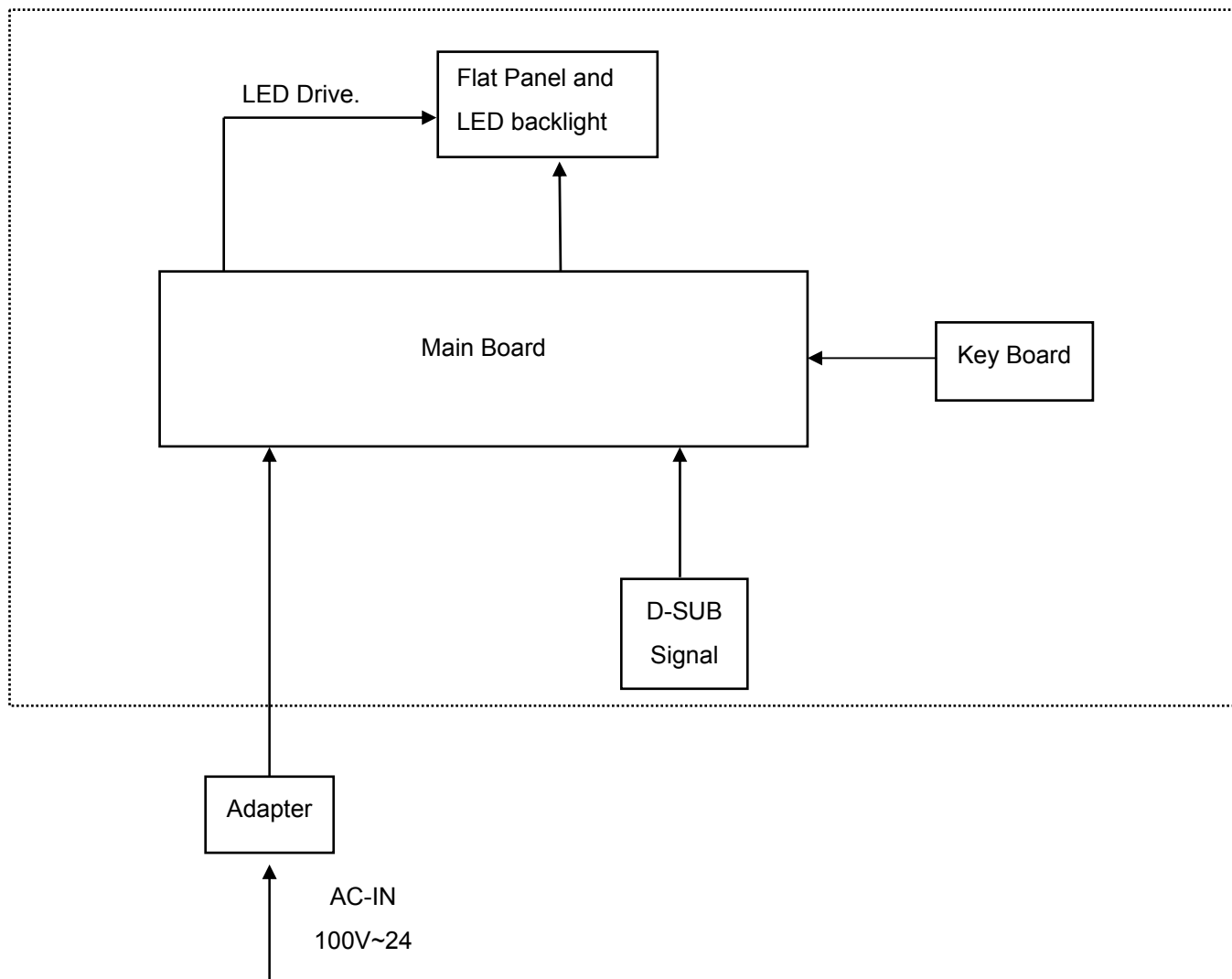
1. Monitor Specifications

Panel	Model number	e2343Fs
	Driving system	TFT Color LED
	Viewable Image Size	58.42cm diagonal
	Pixel pitch	0.265mm(H) x 0.265mm(V)
	Video	R, G, B Analog Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	148.5 MHz
Resolution	Horizontal scan range	30 kHz - 83 kHz
	Horizontal scan Size(Maximum)	509.2mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	286.4mm
	Optimal preset resolution	1920 x 1080 (60 Hz)
	Highest preset resolution	1920 x 1080 (60 Hz)
	Plug & Play	VESA DDC2B/CI
	Input Connector	D-Sub 15pin
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, Positive
	Power Source	100~240VAC, 50/60Hz
	Power Consumption	Active < 28 W (Typical)
		Standby < 0.5 W
Physical Characteristics	Connector Type	15-pin Mini D-Sub
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	404.6 mm
	Width	547.2 mm
	Depth	182.4 mm
	Weight (monitor only)	2.85 kg
Environmental	Temperature:	
	Operating	0°C to 40° C
	Non-Operating	-25°C to 55°C
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 93% (non-condensing)
	Altitude:	
	Operating	0~ 3,658m (0~ 12,000 ft)
	Non-Operating	0~ 12,192m (0~ 40,000 ft)

2. LCD Monitor Description

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

Monitor Block Diagram



3. Operating Instructions

3.1 General Instructions

Press the power button to turn the monitor on or off. The other control knobs are located at base 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 to turn On/off the monitor.

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).

4:3 or wide image ratio / >

When there is no OSD, press > hotkey 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.)

Auto /Exit

When the OSD is closed, press Auto/Source/Exit button continuously about 2 second to do auto configure (only for the models with dual or more inputs).

When the OSD is closed, press Auto/Source/Exit button will be Source hot key function(Only for the models with dual or more inputs).Press Auto/Source/Exit button continuously to select the input source showed in the message bar, press Menu/Enter button to change to the source selected.

3.3 OSD Menu



- 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) to display menu.

2



Press < or > to select  (Luminance), and press  to enter.

3



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

4



Press  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) to display menu.

2



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

3



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

4



Press  to exit.

	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H.Position	0-100	Adjust the horizontal position of the picture.
	V.Position	0-100	Adjust the vertical position of the picture.

Color Temperature

1



Press  (Menu) to display menu.

2



Press < or > to select  (Color Temperature), and press  to enter.

3



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

4



Press  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) to display menu.

2



Press < or > to select  (Color Boost), and press  to enter.

3



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

4



Press  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

Picture Boost

1



Press  (Menu) to display MENU.

2



Press < or > to select  (Picture Boost); and press  to enter.

3



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

4



Press  to exit.

	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

1



Press  (Menu) to display menu.

2



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

3



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

4



Press  to exit.

	OSD Setup		
	H.Position	0-100	Adjust the horizontal position of OSD
	V.Position	0-100	Adjust the vertical position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language

Extra



Press  (Menu) to display menu.

Press  or  to select  (OSD Setup), and press  to enter.

Press  or  to select submenu, press  to enter, and press  or  to adjust.

Press  to exit.

	Input Select	D-SUB	Select Analog 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 to 24hrs	Select DC off time
	Information		Show the information of the main image and sub-image source

Reset

1



Press  (Menu) to display menu.

2



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

3



Press < or > to select YES or NO.

4



Press  to exit.

	Reset	yes or no	Reset the menu to default
---	-------	-----------	---------------------------

Exit

1



Press  (Menu) to display menu.

2



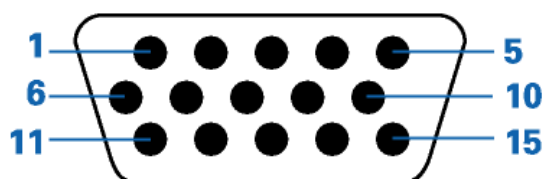
Press < or > to select  (Exit);
and press  to exit.

	Exit		Exit the main OSD
---	------	--	-------------------

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

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.940
VGA	640x480@72Hz	37.861	72.809
VGA	640x480@75Hz	37.500	75.000
SVGA	800x600@56Hz	35.156	56.250
SVGA	800x600@60Hz	37.879	60.317
SVGA	800x600@72Hz	48.077	72.188
SVGA	800x600@75Hz	46.875	75.000
XGA	1024x768@60Hz	48.363	60.004
XGA	1024x768@70Hz	56.476	70.069
XGA	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.020
SXGA	1280x1024@75Hz	79.976	75.025
WXGA+	1440x900@60Hz	55.935	59.887
WXGA+	1440x900@60Hz	55.469	59.901
WSXGA	1680x1050@60Hz	65.290	59.954
	1680x1050@60Hz	64.674	59.883
WUXGA	1920x1080@60HZ	67.500	59.934

4.3 Panel Specification

4.3.1 General Features

LM230WF5-TRA2 is a Color Active Matrix Liquid Crystal Display with an integral Light Emitting Diode (LED) backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally white mode. It has a 23.0 inch diagonally measured active display area with Full HD resolution (1080 vertical by 1920 horizontal pixel array) Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8-bit gray scale signal for each dot, thus, presenting a palette of more than 16,7M colors with Advanced-FRC(Frame Rate Control). It has been designed to apply the interface method that enables low power, high speed, low EMI. FPD Link or compatible must be used as a LVDS(Low Voltage Differential Signaling) chip. It is intended to support applications where thin thickness, wide viewing angle, low power are critical factors and graphic displays are important. In combination with the vertical arrangement of the sub-pixels, the LM230WF5-TRA2 characteristics provide an excellent flat panel display for office automation products such as monitors.

4.3.2 Display Characteristics

Active screen size	23 inches(58.42cm) diagonal
Outline Dimension	533.2(H) x 312.0(V) x 8.3(D) mm(Typ.)
Pixel Pitch	0.0883*RGB(H)mm x 0.265(V)mm
Pixel Format	1920 horiz. By 1080 vert. Pixels RGB stripes arrangement
Interface	LVDS 2Port
Color depth	16.7M colors
Luminance, white	250 cd/m2 (Center 1Point, typ)
Viewing Angle (CR>10)	R/L 170(Typ.), U/D 160(Typ.)
Power Consumption	Total 19.7W(Typ.), (5.9 W@VLCD , 13.8 W@W/O Driver)
Weight	1490 g (Typ.)
Display operating mode	Transmissive mode, Normally White
Surface treatments	Hard coating (3H), Anti-glare treatment of the front polarizer

4.3.3 Optical Characteristics

Electrical characteristics

Ta = 25°C

Parameter	Symbol	Values			Unit
		Min	Typ	Max	
MODULE :					
Power Supply Input Voltage	V _{LCD}	4.5	5.0	5.5	Vdc
Permissive Power Input Ripple	V _{LCD}	-	-	0.3	V
Power Supply Input Current	I _{LCD-MOSAIC(60Hz)}	-	1180	1540	mA
	I _{LCD-BLACK(60Hz)}	-	1400	1820	mA
	I _{LCD-BLACK(75Hz)}		-	2260	mA
Power Consumption	P _{LCD}	-	5.9	7.7	Watt
Inrush current	I _{RUSH}	-	-	3.0	A

LED bar Electrical characteristics

Ta = 25°C

Parameter	Symbol	Condition	Values			Unit
			Min.	Typ.	Max.	
LED :						
LED String Current	Is		-	60	65	mA
LED String Voltage	Vs		-	57.2	29.9	V
Power Consumption	PBar		-	13.8	14.4	Watt
LED Life Time	LED_LT		30,000	-	-	Hrs

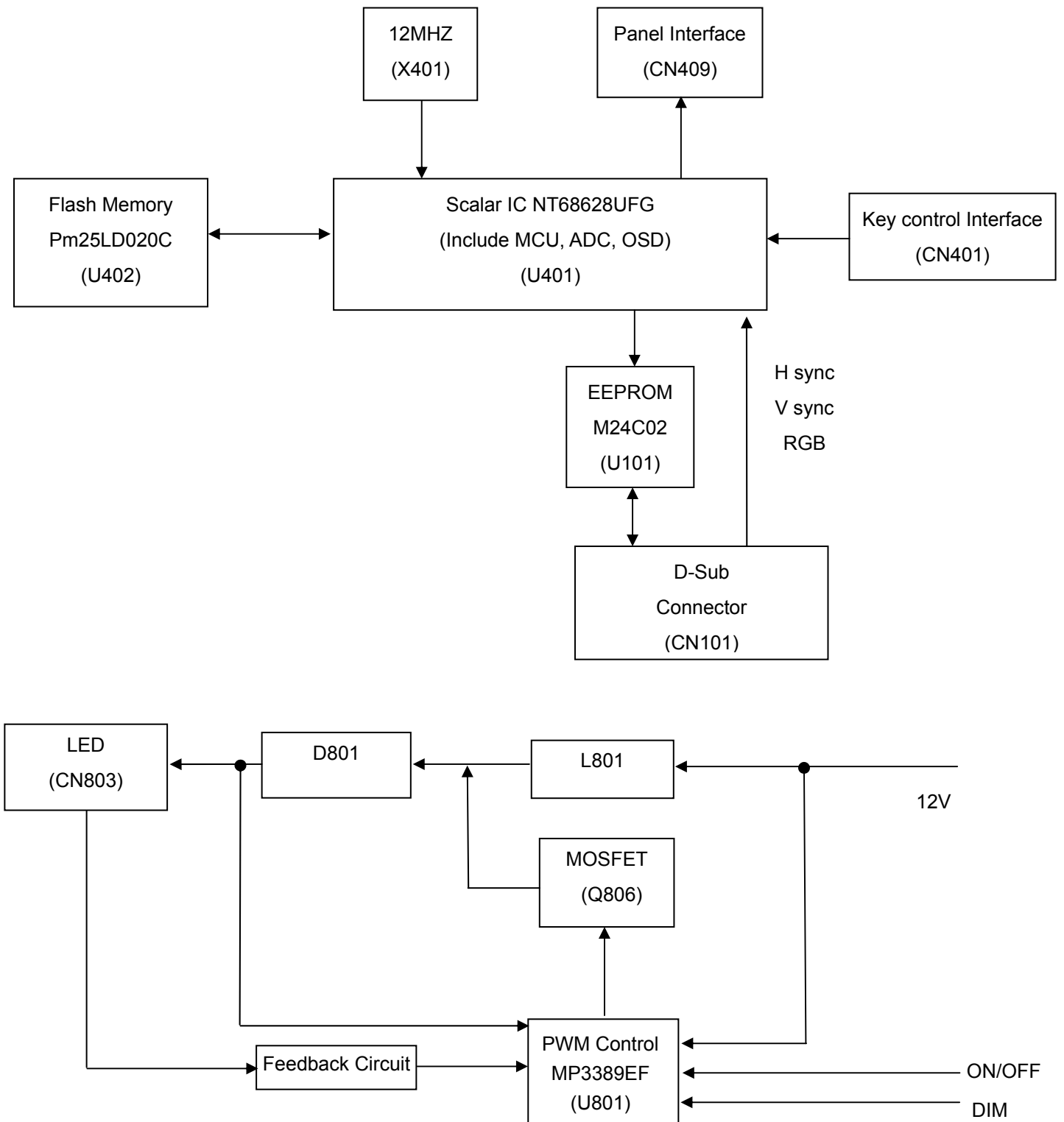
4.3.4 Optical Characteristics

(Ta= 25°C, V_{LCD}=5.0V, fv=60Hz, D_{CLK}= 77.0MHz, Is=60mA)

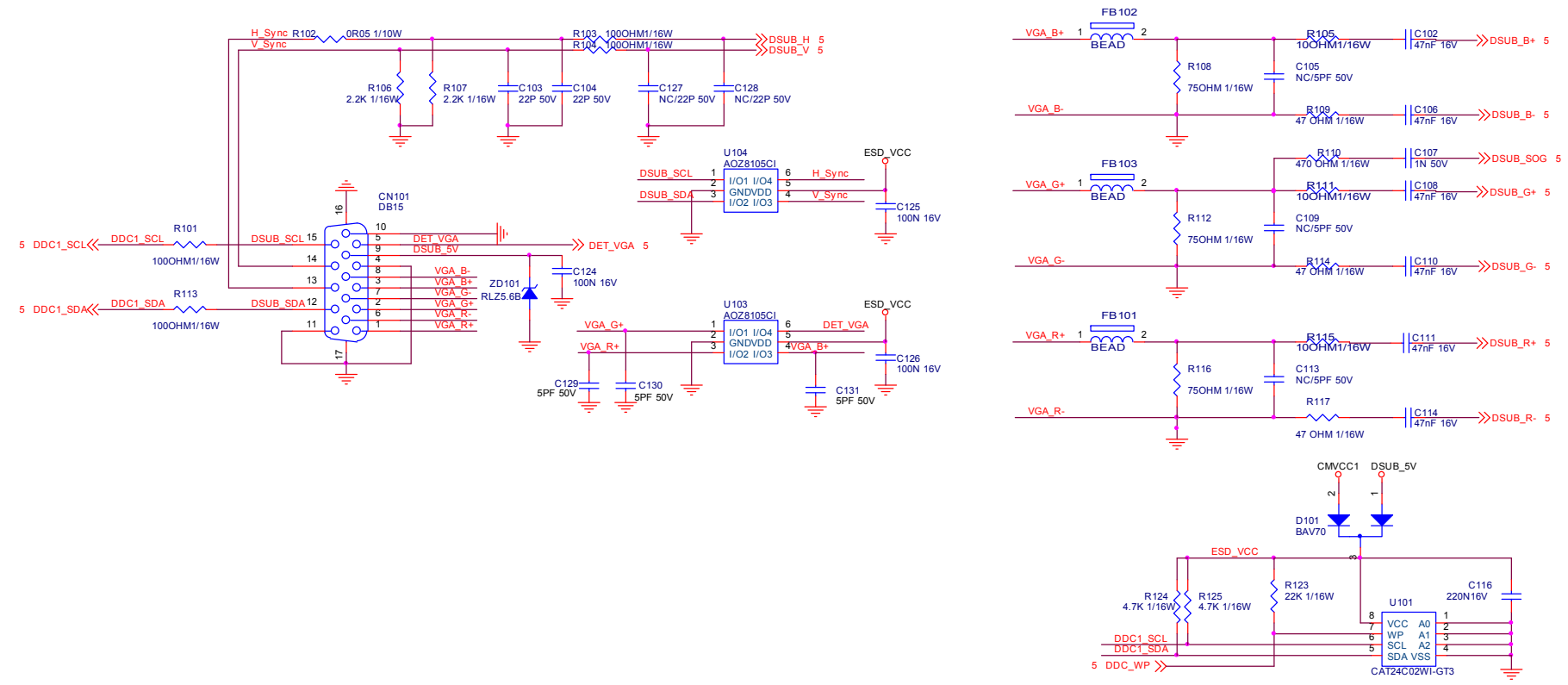
Parameter		Symbol		Values			Units
				Min	Typ	Max	
Contrast Ratio		CR		700	1000	-	
Surface Luminance, white		L _{WH}		200	250	-	cd/m ²
Luminance Variation		δ _{WHITE}	9P	75	-	-	%
Response Time	Rise Time	Tr _R		-	1.3	2.6	ms
	Decay Time	Tr _D		-	3.7	7.4	ms
Color Coordinates [CIE1931]	RED	Rx		Typ -0.03	0.627	Typ +0.03	
		Ry			0.347		
	GREEN	Gx			0.338		
		Gy			0.620		
	BLUE	Bx			0.155		
		By			0.049		
	WHITE	Wx			0.313		
		Wy			0.329		
Viewing Angle (CR>5)							
	x axis, right(θ=0°)	θ _r		75	88		Degree
	x axis, left (θ=180°)	θ _l		75	88		
	y axis, up (θ=90°)	θ _u		70	85		
	y axis, down (θ=270°)	θ _d		70	85		
Viewing Angle (CR>10)							
	x axis, right(θ=0°)	θ _r		70	85		Degree
	x axis, left (θ=180°)	θ _l		70	85		
	y axis, up (θ=90°)	θ _u		60	75		
	y axis, down (θ=270°)	θ _d		70	85		
Crosstalk						1.5	%
Luminance uniformity - Angular dependence (TCO'03)		LR		-	-	1.7	
Color grayscale linearity		Δu'v'			0.018		

5. Block Diagram

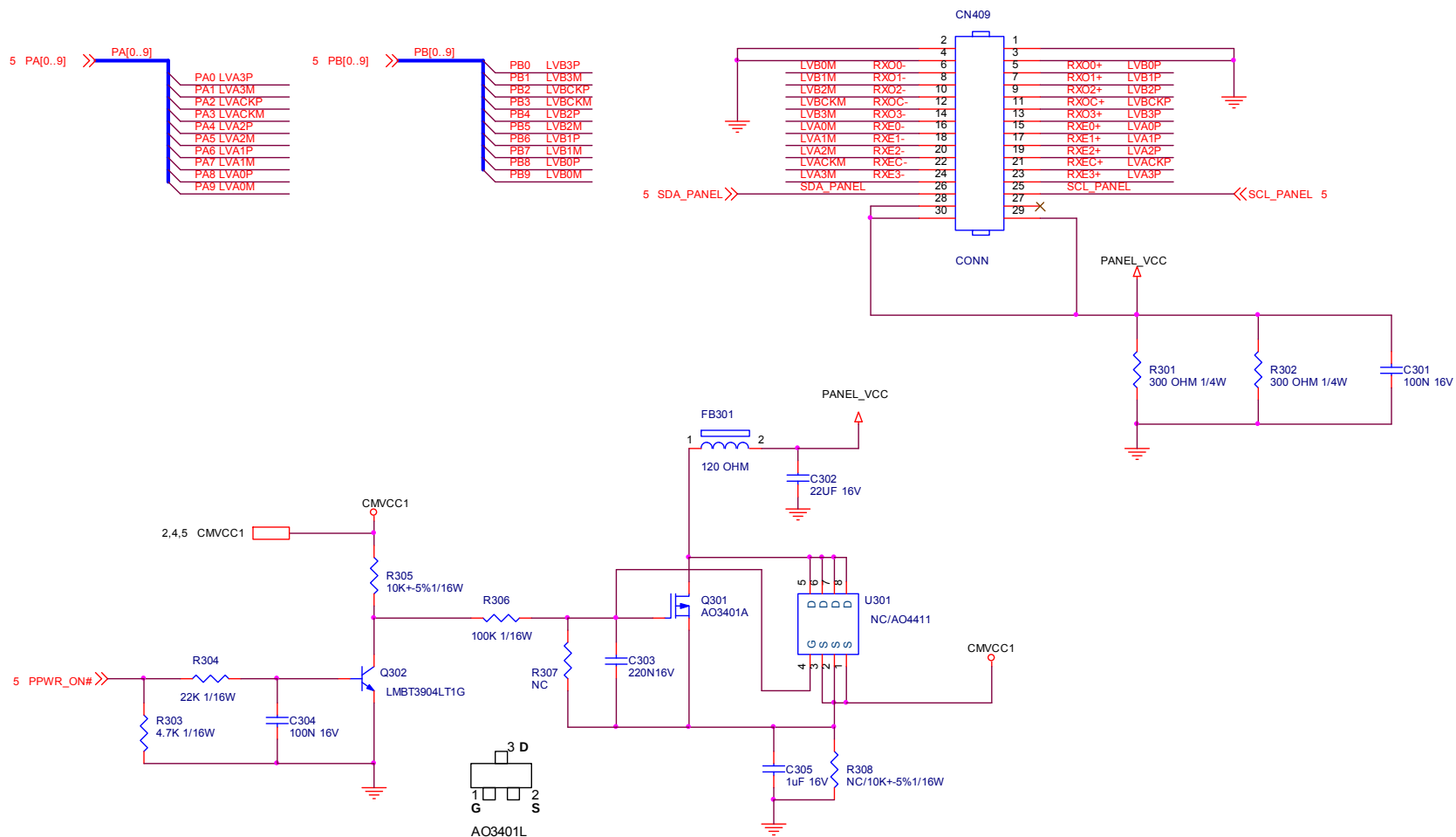
Main Board



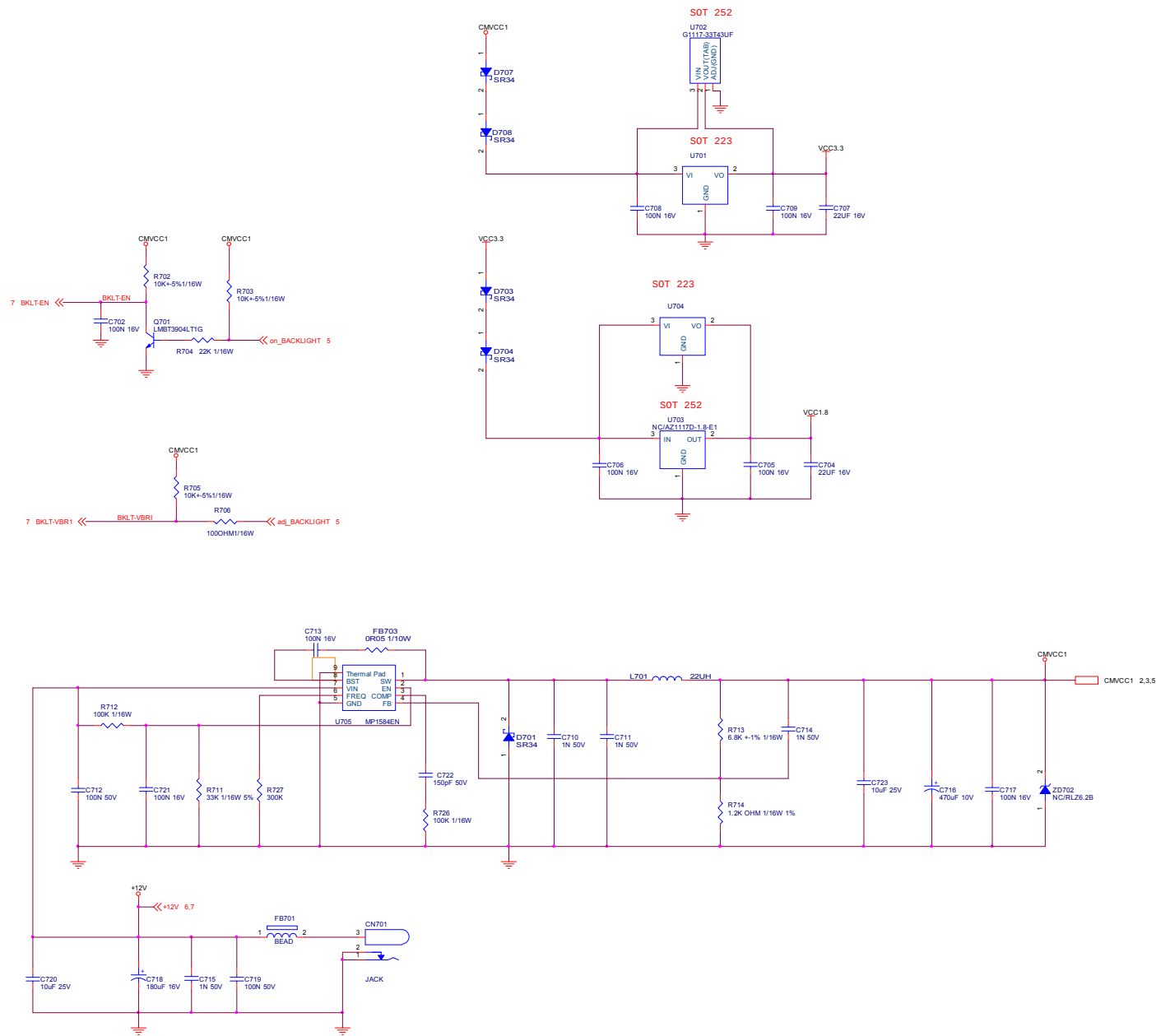
6. Schematic
6.1 Main Board
715G4134M01000004F



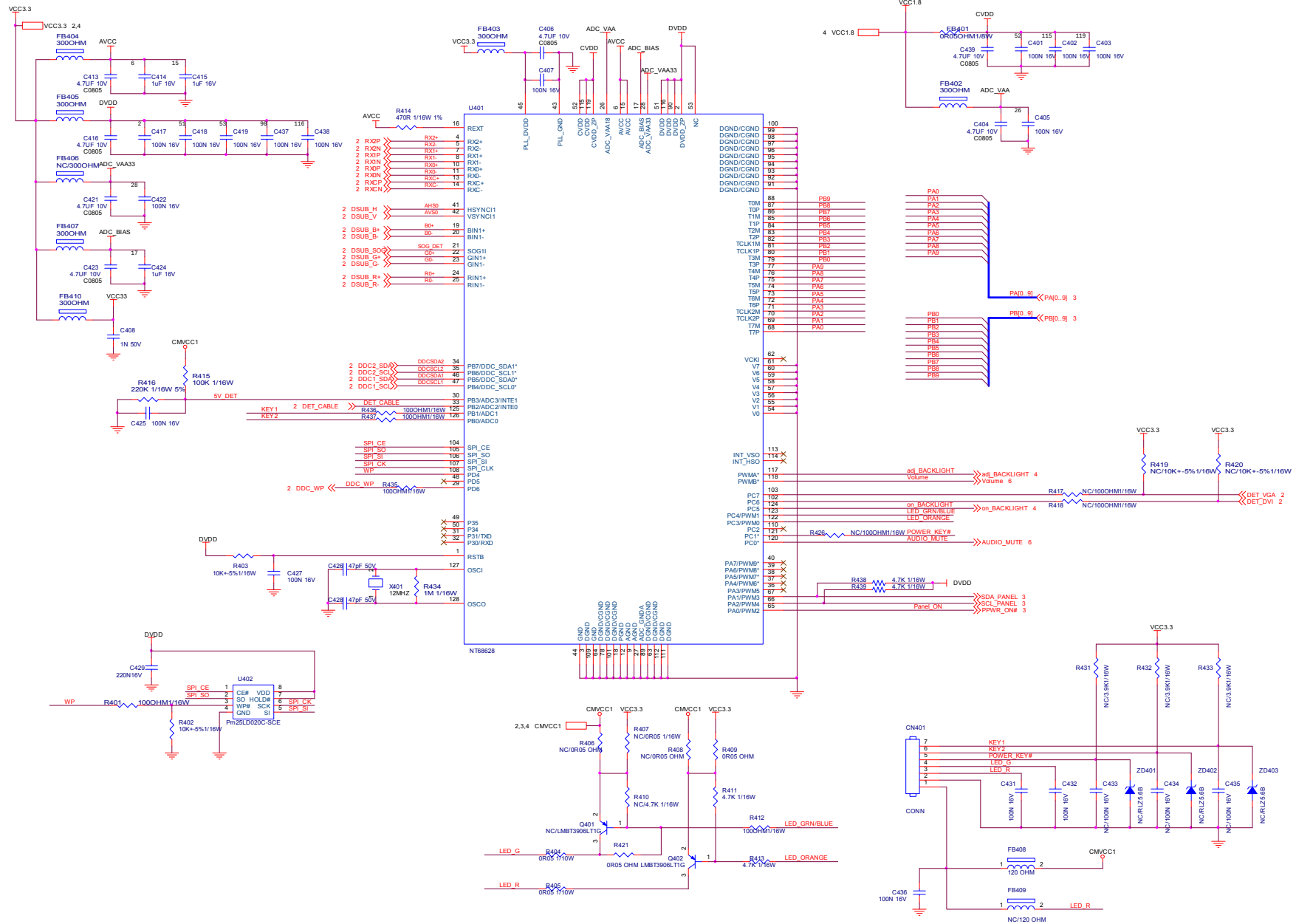
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	AOC	Size	B
振興瓜爾農	G4134-MDD-000-0040-6-100813	TPV MODEL	Rev	B
Key Component	2.0.INPUT	PCB NAME	修家	
Date	Sunday, June 13, 2010	Sheet	2 of 7	



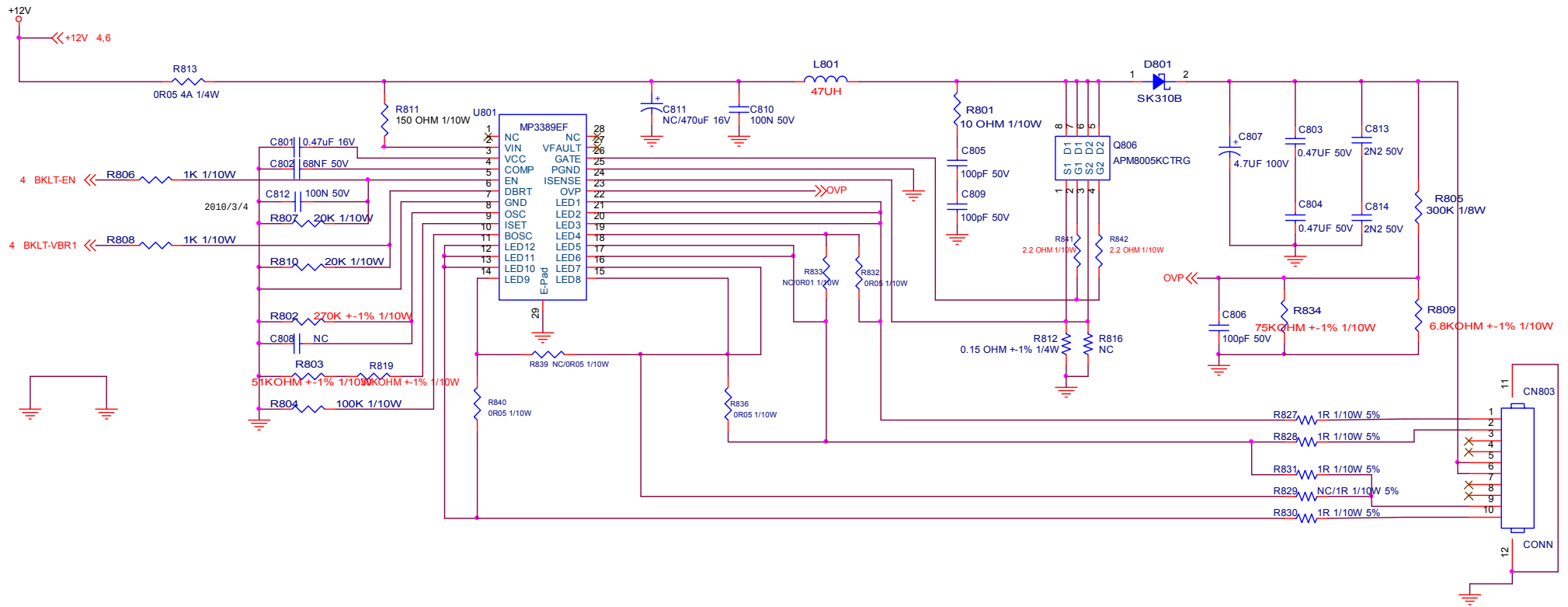
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結隔瓜網膜	G4134-MOD-000-0040-6-100613	TPV MODEL	Rev	B
Key Component	3.0 OUTPUT	PCB NAME	名称	
Date	Sunday, June 13, 2010	Sheet		



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	AOC	Size	C
远拓电子	G4134-MD-000-0040-6-100613	TPV MODEL	Rev	B
Key Component	4.0.POWER	PCB NAME		
Date	Sunday, June 13, 2010	Sheet	4 of 7	



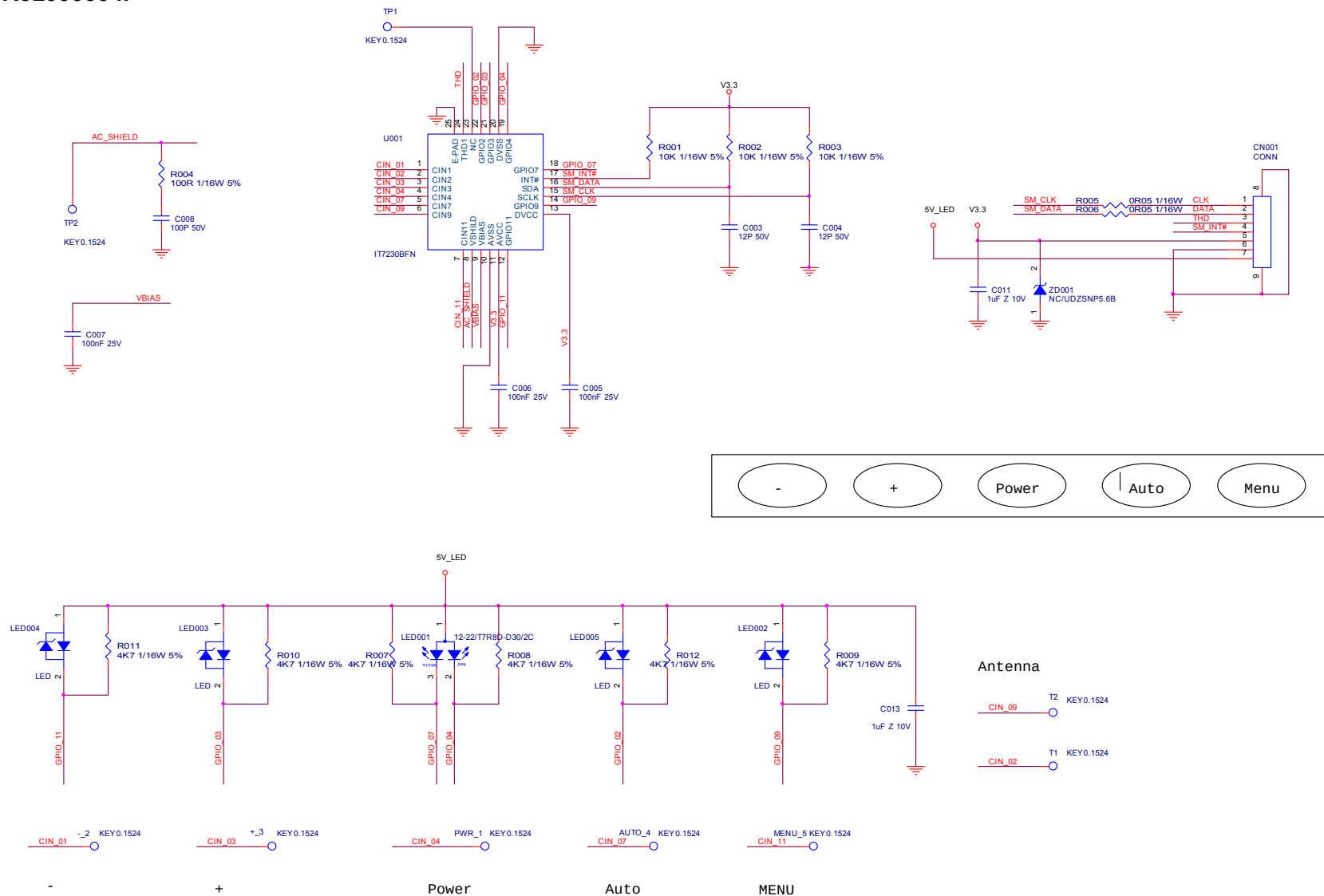
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Key Component	5.0 SCALER	PCB NAME		料号
Date	Sunday, June 13, 2010	Sheet	5 of 7	



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	AOC	Size	Custom
结构瓜 捆膜	G4134-MOD-000-0040-6-100613	TPV MODEL	Rev	B
Key Component	7.0.CONVERT	PCB NAME	称 参	
Date	Sunday, June 13, 2010	Sheet	7 of 7	

715G4164K01000004F

6.2 Key Board

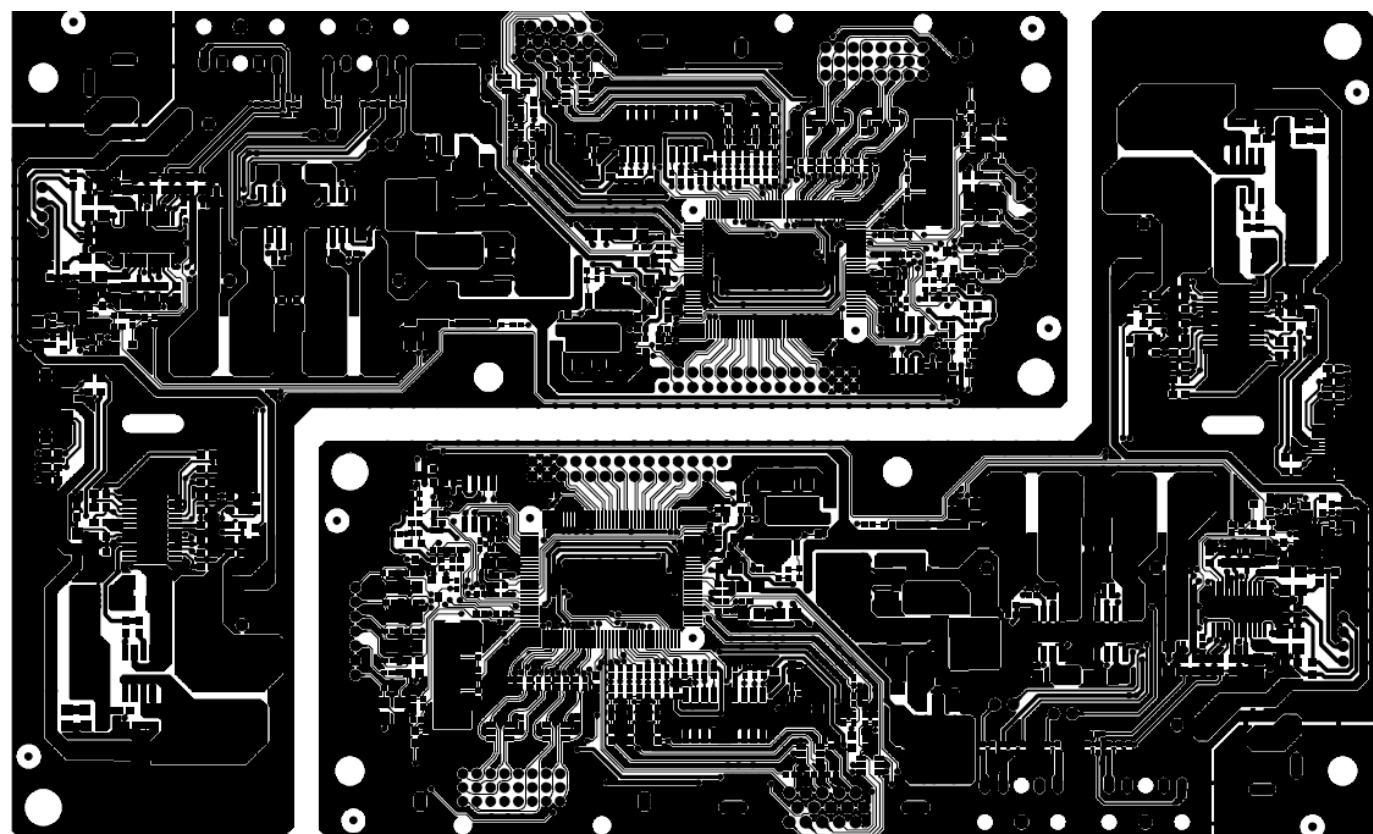
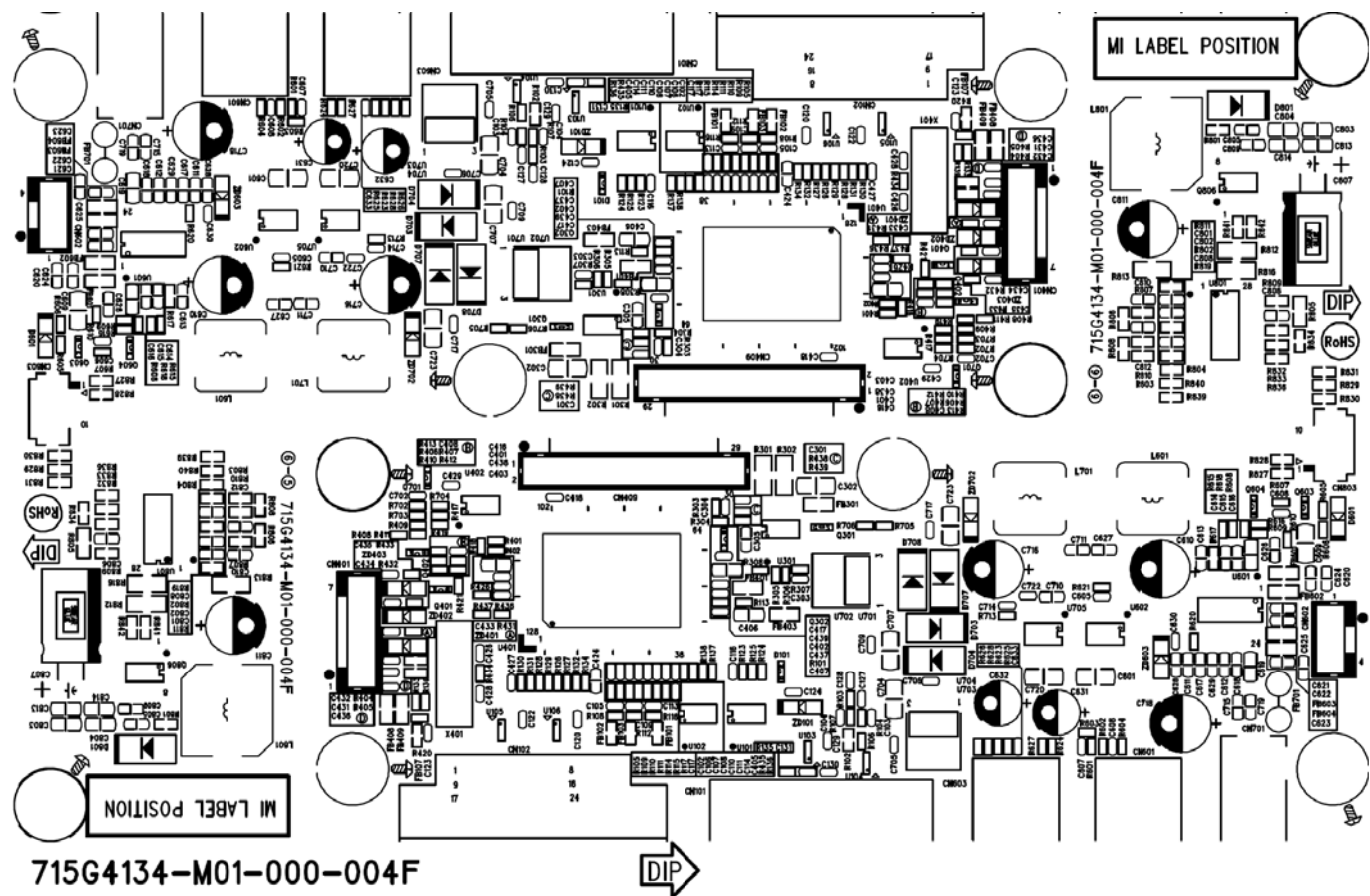


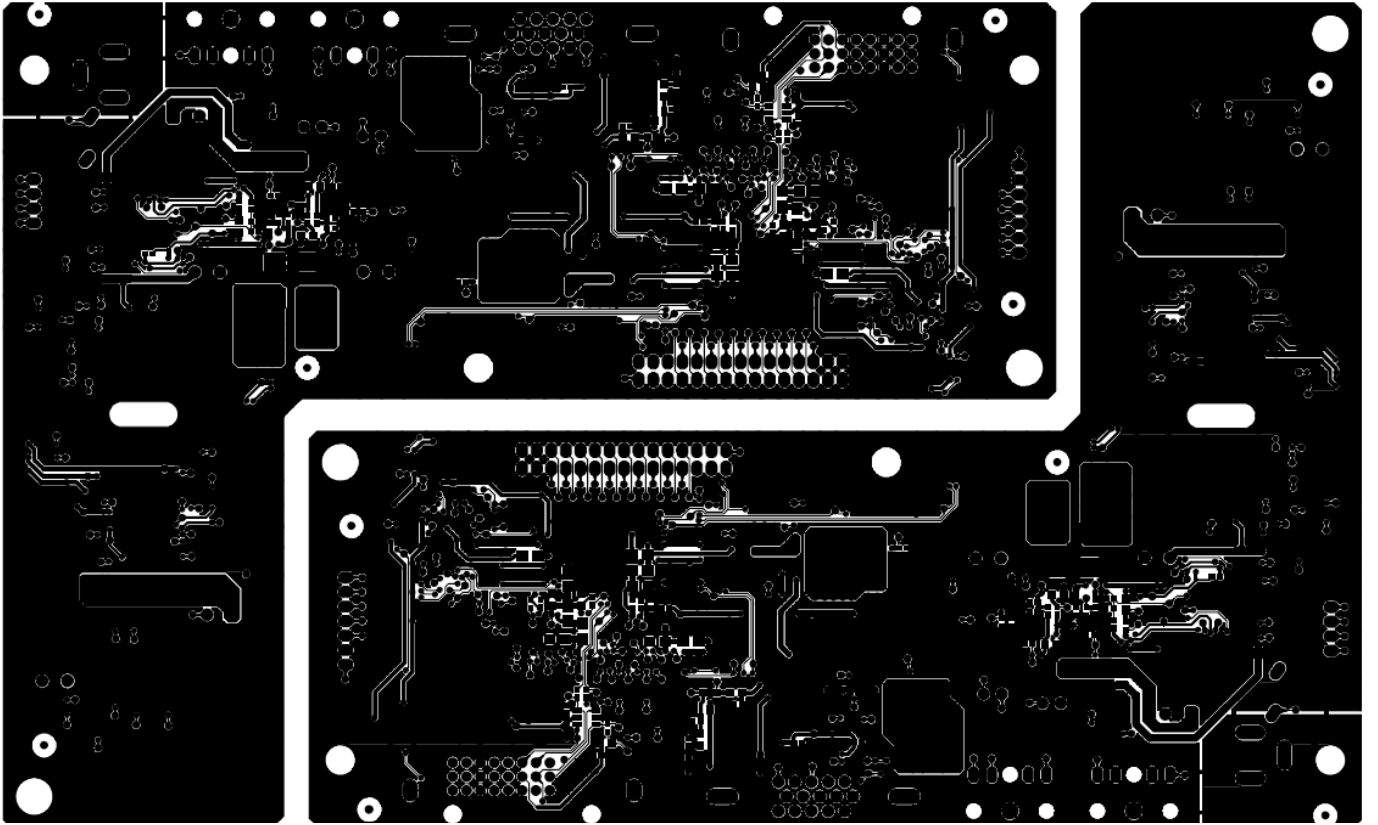
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715G4164-K0C-000-0040_20100420.DSN	TPV MODEL		Rev	C
Key Component	2.0 Touch key	PCB NAME	715G4164-K0C	称 号
Date	Tuesday, April 20, 2010	Sheet	2 of 2	

7. PCB Layout

7.1 Main Board

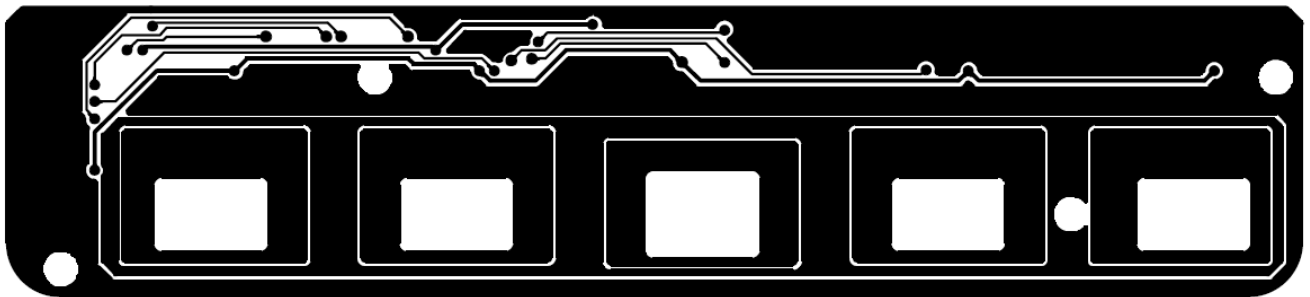
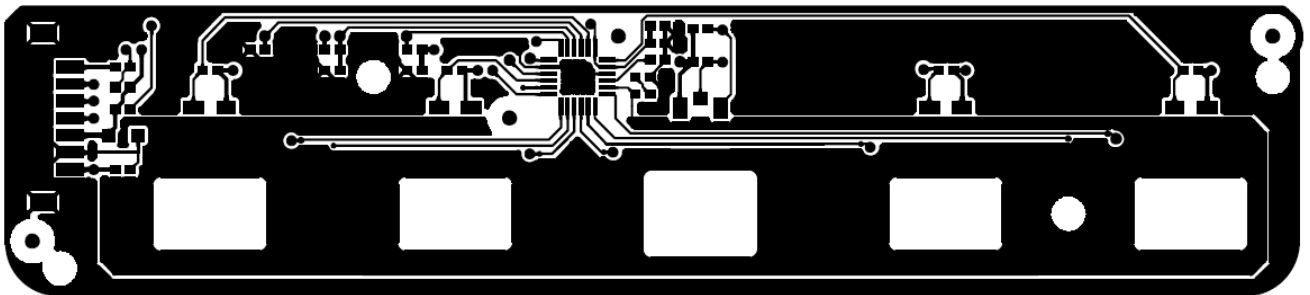
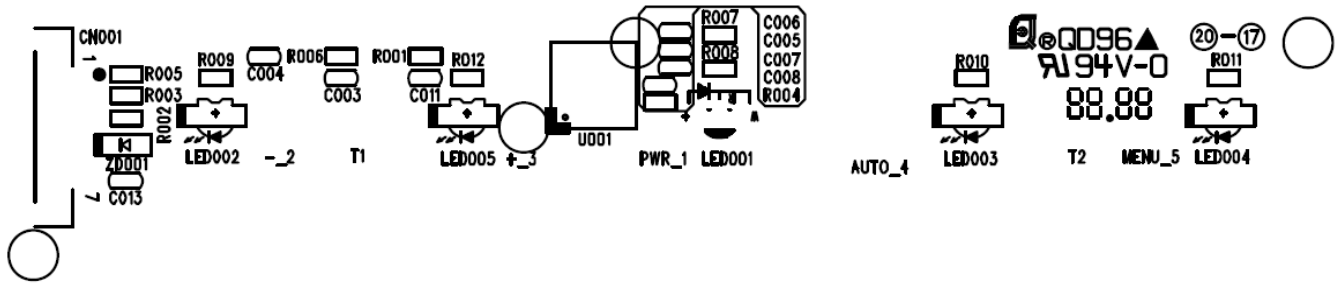
715G4134M01000004F





7.2 Key Board

715G4164K01000004F



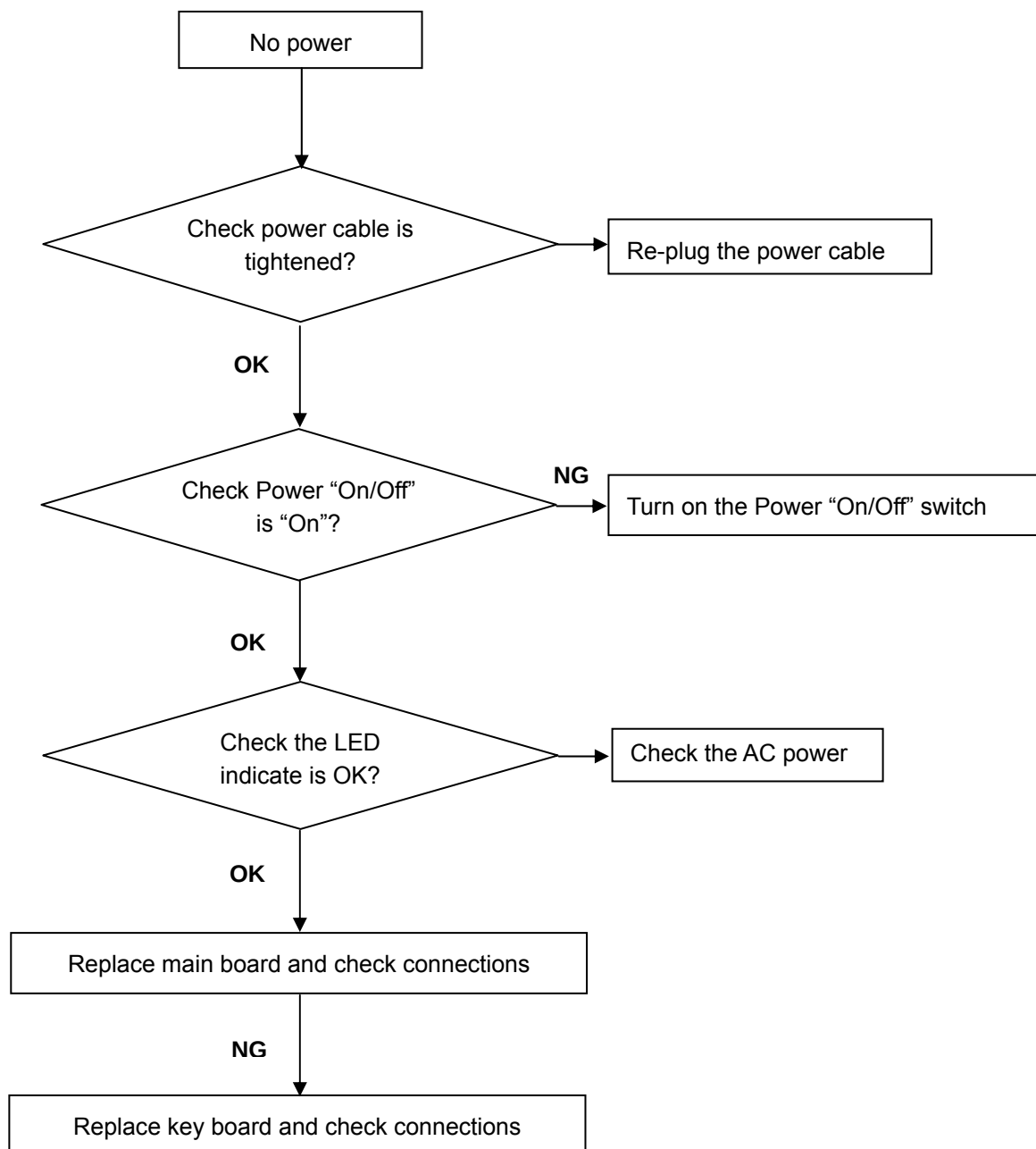
8. Maintainability

8.1 Equipments and Tools Requirement

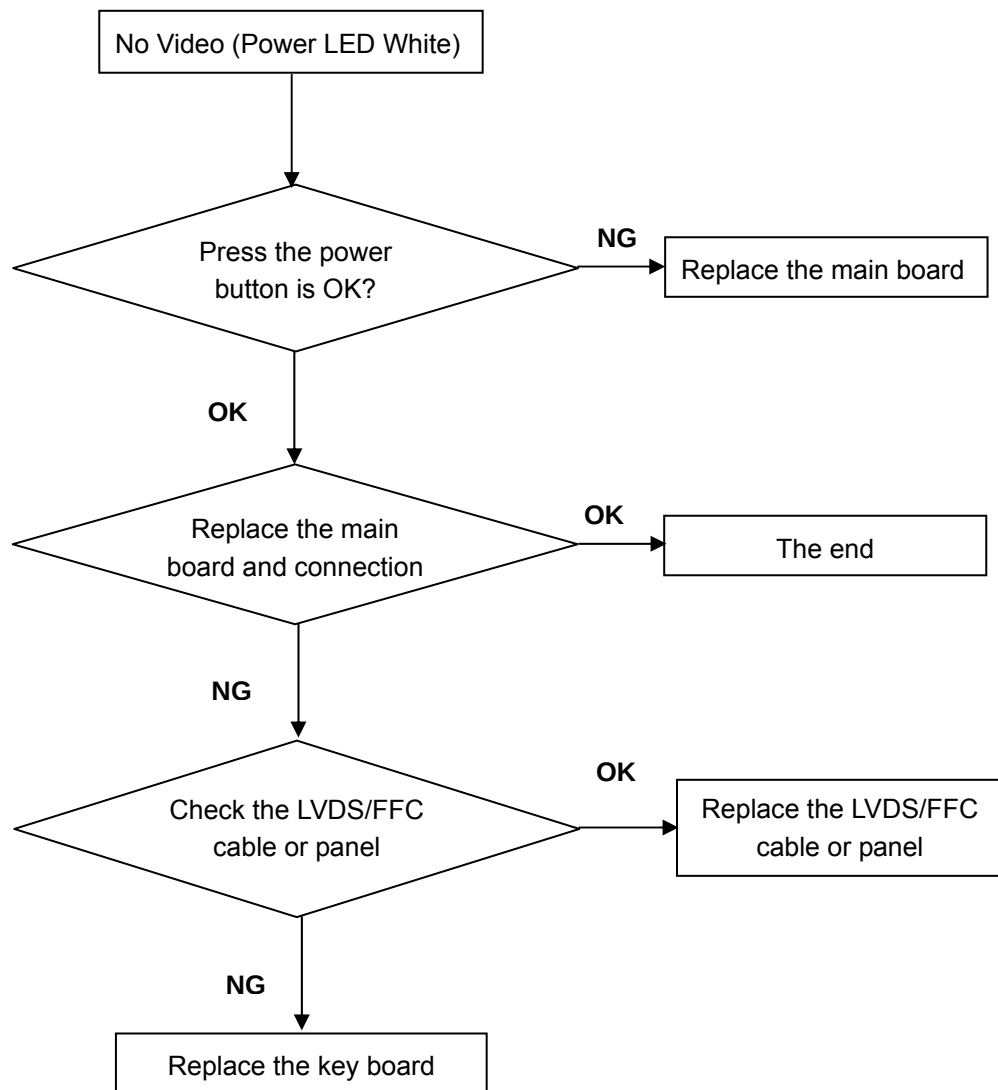
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

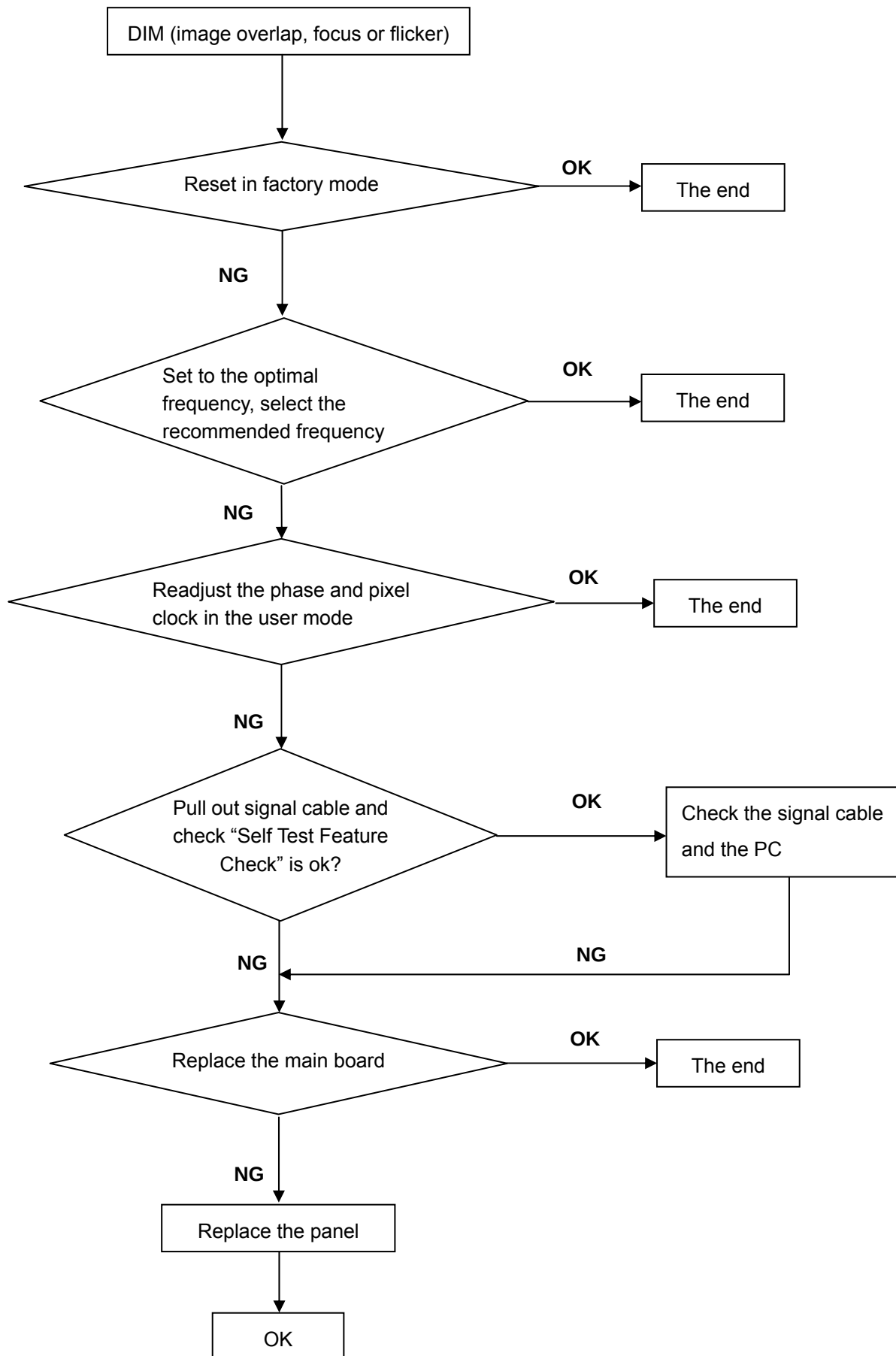
1. No Power



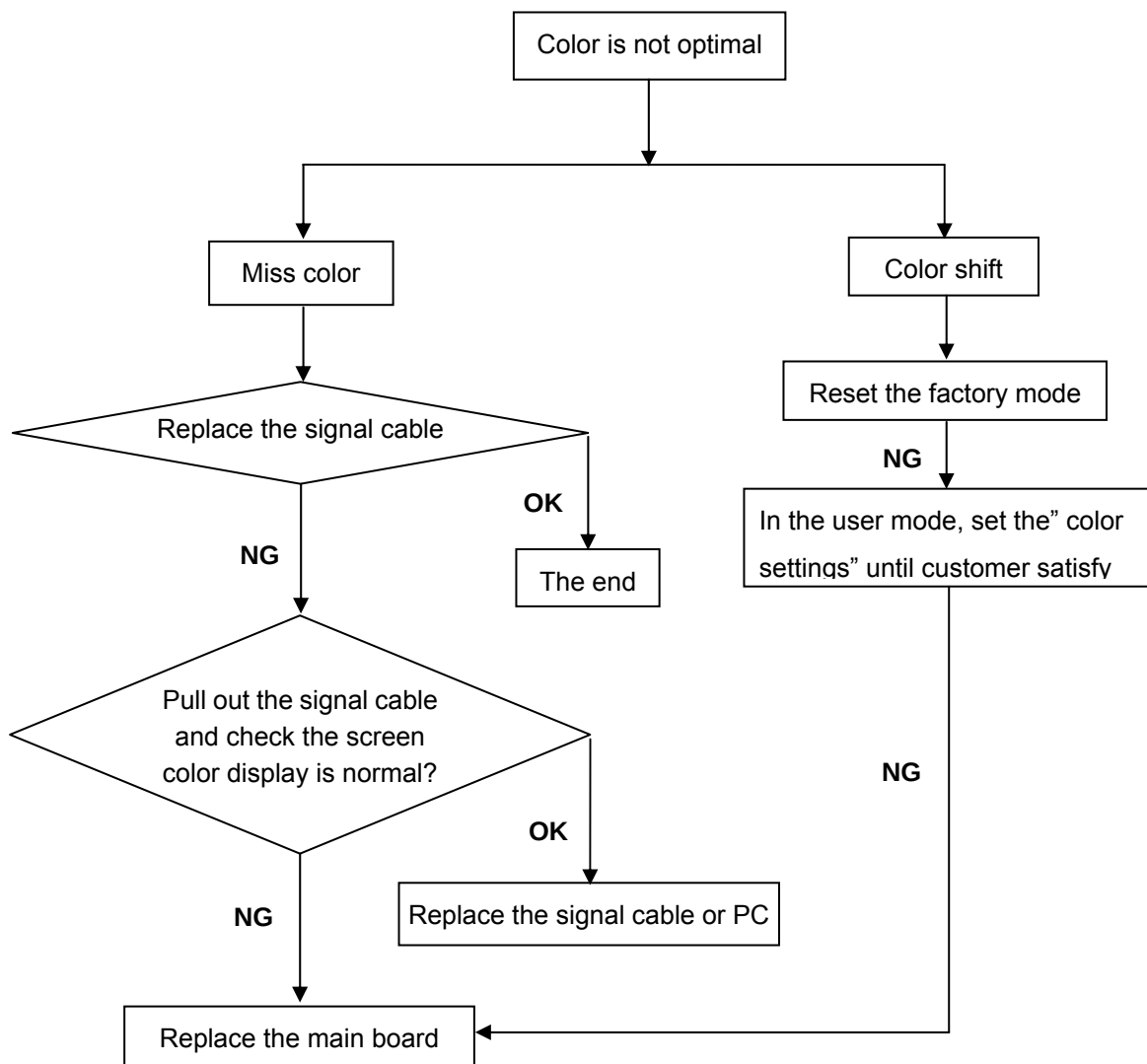
2. No Video (Power LED White)



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 $x = 301 \pm 30$, $y = 317 \pm 30$

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

Turn off the power, press two direction keys and turn the power on. Then press the “MENU” button. The factory OSD will appear.

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 $x = 301 \pm 30$, $y = 317 \pm 30$
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

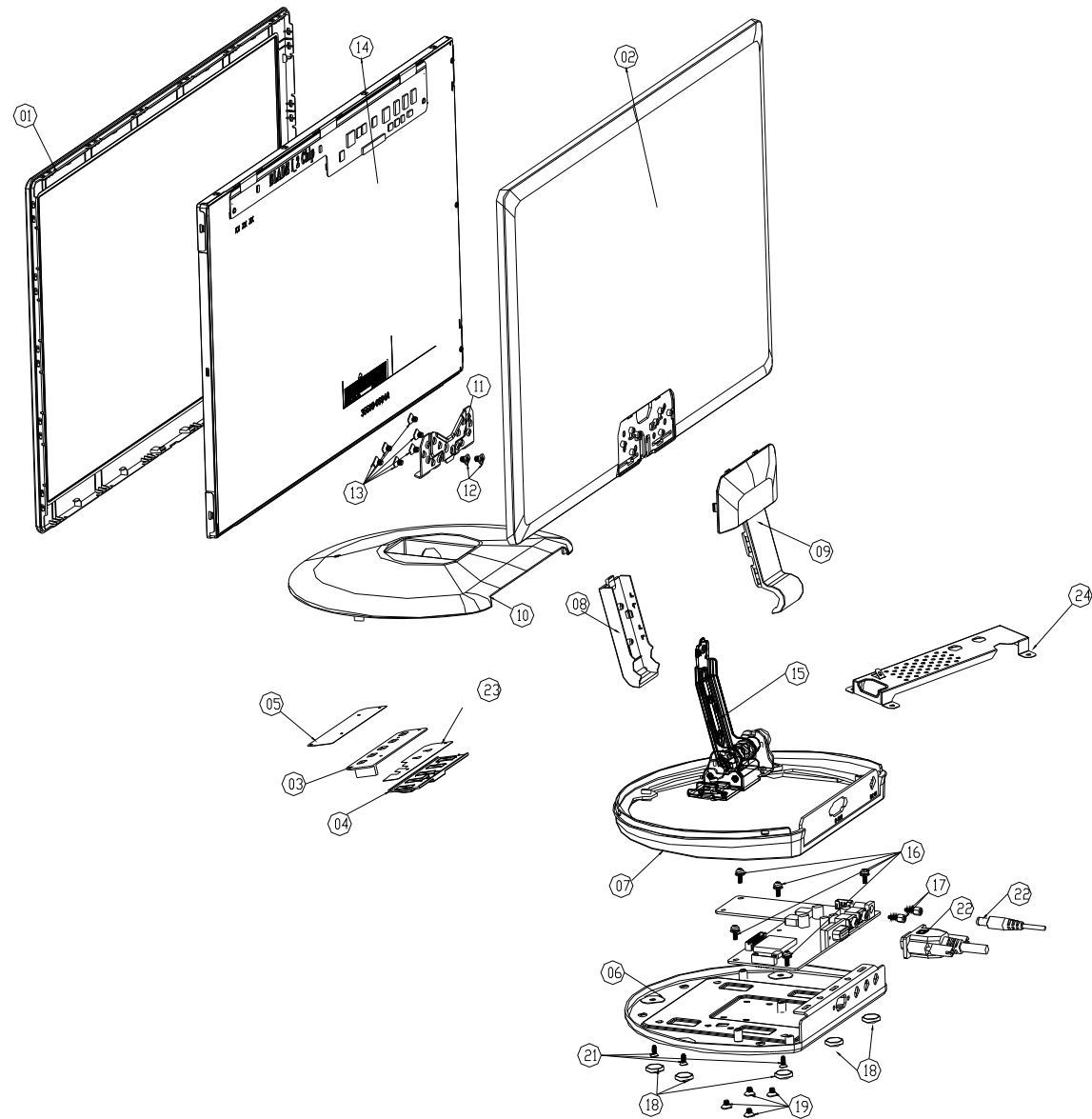
1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 283 \pm 30$, $y = 297 \pm 30$
4. Adjust the RED on factory window until chroma 7120 indicator reached 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.

10. Monitor Exploded View



No.	Description	No.	Part No.	Description
1	BEZELL20W-TB1-TBP1	12	0M1G-940--5125	SCREW(HINGE /TILT SUPPORT BRACKET)
2	REAR COVER	13	0M1G-140--6125	SCREW(TILT SUPPORT BRACKET/ REAR COVER)
3	KEY BOARD	14		PANEL
4	LENS	15		HINGE_ASS'Y
5	WASHER	16	0M1G1730--6120	SCREW(MAIN BOARD/ SHIELD_MAIN_BASE)
6	SHIELD_MAIN_BASE	17		SCREW(FOR SIGNAL CONNECTOR)
7	BASE TRIM	18		FOOT PAD
8	HINGE FRONT COVER	19	0M1G-140--8125	SCREW(SHIELD_MAIN_BASE / HINGE)
9	HINGE BACK COVER	20	N/A	N/A
10	BASE COVER-TOP	21	0Q1G-140-10120	SCREW(BASE/ SHIELD_MAIN_BASE)
11	TILT SUPPORT BRACKET	22	N/A	N/A
		23		3M TAPE
		24		SHIELD COVER

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.

TDAJNT2BZ3K2NNF.LF

Location	Part No.	Description	Remark
	040G-58162435A	P/N LABEL FOR MANUAL PE BAG	
	040G-581689-4A	BARCODE LABEL FOR 1	
	052G---1211--B	CONDUCTIVE TAPE 85MM *40MM *0.09MM	
	052G---2191--A	PAPER TAPE	
	052G6019--1	INSULATING TAPE	
	085G-583576	GASKET_ELECTRIC	
	089G-725CAA-DB	D-SUB CABLE	
E08901	089G404A15N-IS	AC POWER CORD 1500MM EUROPE REG.	
	095G176J-10V03	FFC CABLE 10PIN 591MM 0.5MM	
	095G8014-7L605	WIRE HARNESS 7P-7P(A1253HA HR) 120MM	
E09501	095G8018-3DJ48	LVDS CABLE 30P-30P(2004) 430MM	
	0M1G-140--6125	SCREW	
	0M1G-140--8125	SCREW	
	0M1G-940--5125	.CREW	
	0M1G1730--6120	SCREW,42-D020523	
	0Q1G-140-10120	SCREW	
	708GD06501S	AOC 40 PAPER SHIPSHEET (1368)	
	Q50G---4-10	TIE (Y1900221)	
	Q52G---1185-99	BIG CARTON TAPE FOR AOC	
	750GMT230W5A21N00	PANEL LM230WF5-TRA2 FQ LTD	
	2436L-1639A	LM230WF5-TRA2-7F1-A0	
	3110T-0707A	GALVALUME, T=0.3, LM230WF5-TRA1-7F1-A0	
	3850L-0088A	ID, YUPO, 78X37	
	4296L-0284A	PMP-P2 100-520U-13, 5U-C60 BLACK A600, 180X7X0.45	
	6060L-1844A	LM230WF5-TRA2-7F1-A0	
	6061L-1516A	LM230WF5-TRA1-731	
	6871L-2341A	SOURCE, SINGLE, LM230WF5-TRA2-7F1-A0	
C1,C2,C5,C6,C7,C8	0CH2104H942	0.1UF, Z, 25V, Y5V, 0.9MM, 1608, R/TP	
C70	0CH2153K562	15NF, K, 50V, X7R, 0.9MM, 1608, R/TP	
C44,C50,C51,C53,C71	0CH2473K562	47NF 50V K X7R 1608 R/TP	
C12	0CH2474D572	0.47UF, K, 10V, X5R, 0.95MM, 1608, R/TP	
C41	0CH2A-0006A	4.7U F, 16 VOLT, K PER, X5R(JB), 3216 R/TP, T=1.0(MAX)	
C204,C3,C4,C77	0CH2A-0007A	1U F, 10 VOLT, K PER, X5R(JB), 1608 R/TP, T=0.9(MAX)	

C43,C52	0CH2A-0010A	33NF, M, 25V, X7R, 0.9MM, 1608, R/TP	
C32,C33,C73,C74	0CH2A-0011A	10U F, 16 VOLT, K PER, X5R(JB), 3216 R/TP, T=0.95(MAX)	
C101,C102,C103,C104, C105,C106,C107,C108, C109,C110,C111,C112, C113,C114,C301,C303, C305,C307,C31,C42, C85,C904	0CH2A-0015A	1UF, K, 25V, X5R, 0.9MM, 1608, R/TP	
C76	0CH2A-0017A	2.2U F, 10 VOLT, K PER, X5R(JB), 1608 R/TP, T=0.9(MAX)	
C55,C56,C61,C62, C64,C66	0CH2A-0026A	10U F, 25 VOLT, K PER, X5R(JB), 3225 R/TP, T=1.0(MAX)	
C901,C902	0CH5680K412	68PF, J, 50V, 1608, R/TP, 0.9MM	
C23	0CH5681K412	680PF 50V J NP0 1608 R/TP	
C801	0CH5820K412	82PF 50V J NP0 1608 R/TP	
D3,D4,D5	0DHZL-0008B	BAV99-7-05-F, DIODES, SOT-23, R/TP	
ZD1	0DHZL-0065A	SDZ5V1D, AUK, SOD-323, R/TP	
D6	0DHZL-0095A	RB050M-30, ROHM, PMDU, R/TP	
F1	0FFST-0009A	F0603FA3000V032TM, AEM, CERAMIC, 32V, 3A, UL/CSA, 1.6X0.8X0.8MM, R/TP	
U6	0IDIL-0002A	AP7167-FNG-7, DIODES, ADJUST_3.3V, 1.2A, DFN3030-10, R/TP, 10	
UC1	0ILDL-0001A	LDA5001A, LGD, LVDS, 6/8, 1/2, MINI-LVDS, 6, 1, DRD, GIP, AFRC, DGA, ODIN2, MLF, TR, 68	
U4	0ISGL-0008C	M24C04-RDW, STMICROELECTRONICS, 4K, 5MS, TSSOP, R/TP, 8	
US2	0ISML-0002A	SM4005, SILICON MITUS, TN MNT, BOOST+OP-AMP+L/S+D/C+PVCOM, QFN (7X7), R/TP, 48 PIN	
L1	0LCAA-0069A	TNI8016-100M, DACOWELL, 10UH, M20, 2.1A, 0.093, 8.0X11.0X1.8 (1.2MM,IN-BOARD), R/TP	
R203,R205,R215,R216, R225,R226,R300,R303, R307,R308,R35,R362, R41,R42,R51,R6,R7, R802,R803,R806,R808, R83,R9	0RH0000C622	0 OHM 1/16W 1608 5% D R/TP	
R28	0RH0102C422	10 OHM 1/16W 1608 1% D R/TP	
R901,R903	0RH0221C622	2.2 OHM 1/16W 1608 5% D R/TP	

R211,R212,R213,R214, R44,R45,R46,R47	0RH0302C422	30 OHM 1/16W 1608 1% D R/TP	
R221,R222,R223,R224	0RH0562C422	56 OHM 1/16W 1608 1% D R/TP	
R11,R12	0RH1000C422	100 OHM 1/16W 1608 1% D R/TP	
R13,R140	0RH1001C422	1K OHM 1/16W 1608 1% D R/TP	
R111,R112,R120,R3,R5	0RH1002C422	10K OHM 1/16W 1608 1% D R/TP	
R910	0RH1003C422	100K OHM 1/16W 1608 1% D R/TP	
R117	0RH1102C422	11K OHM 1/16W 1608 1% D R/TP	
R116,R121,R122	0RH1202C422	12K OHM 1/16W 1608 1% D R/TP	
R64	0RH1300C422	130 OHM 1/16W 1608 1% D R/TP	
R807	0RH1500C422	150 OHM 1/16W 1608 1% D R/TP	
R103	0RH1501C422	1.5K OHM 1/16W 1608 1% D R/TP	
R1,R126,R906	0RH1502C422	15K OHM 1/16W 1608 1% D R/TP	
R106	0RH1601C422	1.6K OHM 1/16W 1608 1% D R/TP	
R110,R909	0RH1602C422	16K OHM 1/16W 1608 1% D R/TP	
R130	0RH1801C422	1.8K OHM 1/16W 1608 1% D R/TP	
R14,R81	0RH2001C422	2K OHM 1/16W 1608 1% D R/TP	
R114,R127,R132	0RH2002C422	20K OHM 1/16W 1608 1% D R/TP	
R131,R182,R72	0RH2202C422	22K OHM 1/16W 1608 1% D R/TP	
R10,R8,R82	0RH2401C422	2.4K OHM 1/16W 1608 1% D R/TP	
R105,R202	0RH2702C422	27K OHM 1/16W 1608 1% D R/TP	
R15	0RH3001C422	3K OHM 1/16W 1608 1% D R/TP	
R115,R2	0RH3002C422	30K OHM 1/16W 1608 1% D R/TP	
R129	0RH3301C422	3.3K OHM 1/16W 1608 1% D R/TP	
R201	0RH3902C422	39K OHM 1/16W 1608 1% D R/TP	
R63	0RH4300C422	430 OHM 1/16W 1608 1% D R/TP	
R125	0RH4701C422	4.7K OHM 1/16W 1608 1% D R/TP	
R104	0RH4702C422	47K OHM 1/16W 1608 1% D R/TP	
R43,R60,R62,R908	0RH5101C422	5.1K OHM 1/16W 1608 1% D R/TP	
R73	0RH5102C422	51K OHM 1/16W 1608 1% D R/TP	
R108	0RH5601C422	5.6K OHM 1/16W 1608 1% D R/TP	
R119	0RH5602C422	56K OHM 1/16W 1608 1% D R/TP	
R100,R102	0RH6200C422	620 OHM 1/16W 1608 1% D R/TP	
R109	0RH6202C422	62K OHM 1/16W 1608 1% D R/TP	
R123	0RH6801C422	6.8K OHM 1/16W 1608 1% D R/TP	
R101	0RH6802C422	68K OHM 1/16W 1608 1% D R/TP	
R113,R118	0RH7501C422	7.5K OHM 1 / 16 W 1608 1% D R/TP	
R124	0RH8202C422	82K OHM 1/16W 1608 1% D R/TP	
R128	0RH9101C422	9.1K OHM 1/16W 1608 1% D R/TP	
AR1,AR2,AR3,AR4	0RHZL10005A	100OHM 5 1/16W 3216 R/TP	

FL6,FL7	6200L-J015A	BLM18PG300SN1D	
CN1	6630L-0157B	FI-XB30SL-HF10, JAE, 30 PIN, 1 MM, ANGLE, SN, USER LOCK	
	6870S-1110B	LM230WF5-TRA2-7F1-A0, 2L, 0.6T, 466.0 X 37.9, 4, J, 72, SOURCE	
M39	6091L-1302A	LM230WF5-TRA1-7F1-A0	
	3022L-1153A	KOLON, XC210, T=0.123, LM230WF5-TRA1-7F1-A0	
	3022L-1315A	TORAY, TPL123, T=0.135, LM230WF5-TRA1-7F1-A0	
	3032L-0848A	EFUN, HGL-8B, T=0.210, ANGLE = 0?, LM230WF5-TRA1-7F1-A0	
	3550B-0697A	AL, T=0.5, LM230WF5-TRA1-7F1-A0	
	3850L-0151A	BL, YUPO, 77X21	
	4000L-0036B	SWCH18A, TAP-TITE B, PAN HEAD, M2.0, L2.5, ELECTROLESS NI	
	4975L-0335A	LM230WF5-TRA1-7F1-A0	
	4296L-0247A	SJ CHEMICAL, SJC #101, SILICONE, GRAY, TERAOKA 767, 295.7*2.0*0.2	
	4296L-0248A	SJ CHEMICAL, SJC #101, SILICONE, GRAY, TERAOKA 767, 520.0*2.0*0.2	
	4974L-0639A	ENTIRE, ETR-1010, LM230WF5-TRA1-7F1-A0	
	5151L-0185A	LM230WF5-TRA1-7F1-A0	
	6916L-0250A	WOOREE LED, 72(NUMBER OF LED), WHITE LED, LM230WF5-TRA1-7F1-A0	
	7250L-0864A	NITTO, NITTO 5000NS, CLEAR, 30*3*0.16	
	7250L-0865A	3M, ZH350, SILVER, 15*8*0.08	
	7250L-1408A	ZH350 25X16X0.1	
	756GQACB-AA115--00	MAINBOARD-CBPCANRA2QL	
SMTCA-U402	100GANGD003YT1	MCU ASS'Y-056G2233-11	
	A15G1327101	TILT SUPPORT BRACKET	
	A34G2040AGS-1B0100	LENS	
	A34G2041AKMA1M0100	BASE COVER-TOP	
	A34G2042AED-2B0100	BASE TRIM	
	A34G2043AGS-1B0100	HINGE FRONT COVER	
	A34G2044AGS-1B0100	HINGE BACK COVER	
	A34G2097AEDB1B0100	BEZEL L23W-TB1-TBP1	
	A34G2142AGSA1B0100	REAR COVER L23W-TB1-TBP1	
	A37G0188012	HINGE 21.5	
	A85G0260101	SHIELD_MAIN_BASE	
	A85G0272101	SHIELD COVER	

	ADPC91236YJ1	ADAPTER BOARD	
CN401	033G3802-7B--Y---L	CONN 2.0 7P	
CN409	033G804330C-HR	WAFER 2*15P 2.0PITCH	
	040G-45762412B	CBPC LABEL	
C718	067G204V181-3C	CS CAP 180UF M 16V 8*8 MM	
C716	067G204V471-2K	CS CAP 470UF 10V 8*8 MM	
C807	067G415R479-9K	EC 4.7UF 20% 100V ED 8*12	
FB701	071G--5526A--H	CORE 6.0X3.5X3.5 127 25% 3.5X6.0	
CN701	088G-3041CF	DC JACK	
CN101	088G-35315F-HD	D-SUB CONN F ATTACHED SCREW	
	709G4134-QM001	COMSUPTIVE ASS'Y	
	055G--23524--A	WELDING FULX WITHOUT PB	
	Q55G-100625	TIN STICK_LOW ARGENTUM	
CN803	033G801910Y--H	FPC CONN. 0.5MM SMT 10P	
U401	056G-562F25	SCALER NT68628UFG QFP-128PIN	
U704	056G-563113	IC G1117-18T63UF 1A/1.8V SOT-223	
U705	056G-563215	IC DC/DC MP1584EN SOIC8E	
U702	056G-563512	IC G1117-33T43UF TO-252	
U103,U104	056G-662505	IC ESD AOZ8105CI SOT-23-6 AOS	
U801	056G-700--5	IC LED DRIVER MP3389EF TSSOP28	
U101	056G1133956	IC CAT24C02WI-GT3 SO-8	
U402	056G2233-11	IC PM25LD020C-SCE SIOC-8(150MIL) 2M	
Q402	057G-417517	TRA LMBT3906LT1G -200MA/-40V SOT-23 LRC	
Q302,Q701	057G-417518	TRA LMBT3904LT1G 200MA/40V SOT-23 LRC	
Q301	057G-763940	MOSFET AO3401A SOT-23	
Q806	057G-763947	MOSFET APM8005KCTRG SOP-8	
R409,R421	061G0402000-JF	RST CHIPR MAX0R05 1/16W FENGHUA	
R105,R111,R115	061G0402100-JF	RST CHIPR 10 OHM +-5% 1/16W FENGHUA	
R101,R103,R104,R113, R401,R412,R435,R436, R437,R706	061G0402101-JF	RST CHIPR 100 OHM +-5% 1/16W FENGHUA	
R305,R402,R403,R702, R703,R705	061G0402103-JF	RST CHIPR 10KOHM +-5% 1/16W FENGHUA	
R135,R306,R415, R712,R726	061G0402104-JF	RST CHIPR 100KOHM +-5% 1/16W FENGHUA	
R434	061G0402105-JF	RST CHIPR 1MOHM 5% 1/16W FENGHUA	
R714	061G04021201FF	RST CHIP 1.2K 1/16W 1% FENGHUA	
R106,R107	061G0402222-JF	RST CHIPR 2.2KOHM +-5% 1/16W FENGHUA	
R123,R304,R704	061G0402223-JF	RST CHIPR 22KOHM 5% 1/16W FENGHUA	
R416	061G0402224-JT	RST CHIP 220K 1/16W 5% TZAI YUAN	

R727	061G0402304-JF	RST 0402 300K 5% 1/16W FENGHUA	
R711	061G0402333-JF	RST CHIP 33K 1/16W 5% FENGHUA	
R133	061G0402394-JY	RST CHIP R 390K +/-5% 1/16W YAGEO	
R109,R114,R117	061G0402470-JF	RST CHIPR 47 OHM 5% 1/16W FENGHUA	
R414	061G04024700FF	RST CHIP 470R 1/16W 1% FENGHUA	
R110	061G0402471-JF	RST CHIPR 470 OHM 5% 1/16W FENGHUA	
R124,R125,R303,R411, R413,R438,R439	061G0402472-JF	RST CHIPR 4.7KOHM +-5% 1/16W FENGHUA	
R713	061G04026801FF	RST CHIPR 6.8K +-1% 1/16W FENGHUA	
R108,R112,R116	061G0402750-JF	RST CHIPR 75 OHM +-5% 1/16W FENGHUA	
FB703,R102,R404, R405,R833,R839	061G0603000-JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R801	061G0603100-JF	RST CHIPR 10 OHM 5% 1/10W FENGHUA	
R819	061G06031002FF	RST CHIPR 10KOHM +-1% 1/10W FENGHUA	
R806,R808	061G0603102-JF	RST CHIPR 1K OHM +-5% 1/10W FENGHUA	
R804	061G0603104-JF	RST CHIPR 100KOHM 5% 1/10W FENGHUA	
R827,R828,R829,R830	061G0603109-JF	RST CHIP 1R 1/10W 5% FENGHUA	
R811	061G0603151-JF	RST CHIPR 150 OHM +-5% 1/10W FENGHUA	
R807,R810	061G0603203-JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	
R841,R842	061G0603229-JF	RST CHIPR 2.2 OHM 5% 1/10W FENGHUA	
R802	061G06032703FF	RST CHIPR 270KOHM +-1% 1/10W FENGHUA	
R803	061G06035102FF	RST CHIPR 51KOHM +-1% 1/10W FENGHUA	
R809	061G06036801FT	RST CHIP 6K8 1/10W 1%	
R834	061G06037502FF	RST CHIPR 75KOHM +-1% 1/10W FENGHUA	
FB401	061G0805000-JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R805	061G0805304-JF	RST CHIPR 300KOHM +-5% 1/8W FENGHUA	
R813	061G12060004JF	RST CHIPR MAX0R05 4A 1/4W FENGHUA	
R812	061G12061007FF	RST 1206 0.1R 1% 1/4W	
R301,R302	061G1206301-JF	RST CHIPR 300 OHM +-5% 1/4W FENGHUA	
C107,C408,C714	065G040210232K---Y	CAP CHIP 0402 1N 50V X7R +/-10%	
C124,C125,C126,C301, C304,C401,C402,C403, C405,C407,C417,C418, C419,C422,C425,C427, C431,C432,C436,C437, C438,C702,C705,C706, C708,C709,C713,C717, C721	065G040210412K---Y	CAP CHIP 0402 100N 16V X7R +/-10%	
C123,C722	065G040215131J---Y	CHIP 150PF 50V NPO YAGEO	
C103,C104	065G040222031J---Y	CAP CHIP 0402 22P 50V NPO +/-5%	
C116,C303,C429	065G040222415K---A	CAP CHIP 0402 0.22UF K 16V X5R	

C426,C428	065G040247031J---Y	CAP CHIP 0402 47PF 50V NPO +/-5%	
C102,C106,C108, C110,C111,C114	065G040247312K---A	8.31HIP 0402 47NF K 16V X7R	
C129,C130,C131	065G040250931C---Y	CAP CHIP 0402 5PF 50V NPO +/-0.25PF	
C805,C806,C809	065G060310131J---Y	CAP CHIP 0603 100P 50V NPO +/-5%	
C710,C711,C715	065G060310232K---Y	CAP CHIP 0603 1N 50V X7R +/-10%	
C712,C719,C810,C812	065G060310432K---Y	CAP CHIP 0603 0.1UF K 50V X7R	
C305,C414,C415,C424	065G060310512K---Y	CAP CHIP 0603 1UF K 16V X7R	
C801	065G060347412K---A	CAP CHIP 0603 470NF K 16V X7R	
C802	065G060368332K---Y	CAP CHIP 0603 68NF K 50V X7R	
C813,C814	065G080522232K---F	CAP 0603 2.2NF K 50V X7R	
C803,C804	065G080547432K---A	CAP CHIP 0805 0.47UF K 50V X7R	
C404,C406,C413,C416, C421,C423,C439	065G0805475A2K---T	CAP CHIP 4U7 10V X7R 10%	
C720,C723	065G120610625K---T	CAP CHIP 1206 10UF K 25V X5R	
C302,C704,C707	065G1206226A5K---T	CAP CHIP1206 22UF K 10V X5R	
FB301,FB408	071G-56K121	CHIP BEAD	
FB402,FB403,FB404, FB405,FB407,FB410	071G-56V301--B	CHIP BEAD FCM2012VF-301T07 BULLWILL	
FB107	071G-59G301	CHIP BEAD 300OHM	
FB101,FB102,FB103	071G-59K190--B	19 OHM BEAD	
L801	073G253S-98-DN	SMD CHOKE 47UH 20% 3A 64R	
L701	073G253S521--H	SMD CHOKE 22UH 20% 3.3A HF	
D101	093G--64-42-PP	BAV70 SOT-23	
X401	093G-22S-51--A	CRYSTAL 12MHZ 32P SMD-49	
ZD101	093G-39GA01--T	RLZ5.6B	
D801	093G-60S932--T	DIODE SK310B DO-214AA	
D701,D703,D704, D707,D708	093G3004--2	SR34 PAN JIT	
	709G4134-QS001	COMSUPTIVE ASS'Y	
	052G---2191--A	PAPER TAPE	
	Q52G6026--6	MESH PRINTTING PAPER	
E715	715G4134M01000004K	MAIN PCB 146*115MM*1.6MM FR-4 D/S 1OZ	
	KEPCAQQR	KEY BOARD	
CN001	033G8032-7F--S--HR	CONNECTOR 7P 1.25	
U001	056G-669-15	TEST ONLY IT7230BFN	
R005,R006	061G0402000-JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R004	061G0402101-JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R001,R002,R003	061G0402103-JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R007,R008,R009, R010,R011,R012	061G0402472-JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	

C008	065G040210131J---Y	CAP CHIP 0402 100P 50V NPO +/-5%	
C005,C006,C007	065G040210427Z---T	CAP CHIP 0402 0.1UF 25V Y5V	
C011,C013	065G0402105A7Z---A	CAP CHIP 0402 1UF 10V Y5V	
C003,C004	065G040212031J---Y	CAP CHIP 0402 12P 50V NPO +/-5%	
LED001	081G--15--2-EL	LED WHITE/RED 12-22/T7R8D-D30/2C SMD	
LED002,LED003, LED004,LED005	081G-15W--1-EL	CHIP LED WHITE	
	709G4164-QS001	COMSUPTIVE ASS'Y	
E715	715G4164K01000004F	KEY PCB FR4 DS97X23X1.0MM	
	Q05G6131--1	WASHER	
	Q36G-600517	DUSTER CLOTH	
	Q40G-18E61515A	RATING LABEL	
	Q40G000161515A	CARTON LABEL	
	Q40G0003615A71	LABEL POP(SILVER EPEAT+EPA)	
	Q40G0003615C68	LABEL POP	
	Q41G78D1615-4A	CARD	
	Q41G78S161545A	E943FWS/E2043FS/E2243FWS/E2343FS QSG	
	Q44GD065101	PULP MOLD	
	Q44GD065201	PULP MOLD	
	Q44GD065301EPE	CUSHION EPE	
	Q44GD065615-2A	23 LCD CARTON	
	Q45G--88609198	3002BAG	
	Q45G2010M0201A	PE BAG	
	Q52G1201--4	3M TAPE	
	Q70G23C1615-7B	E2343FS CD MANUAL	