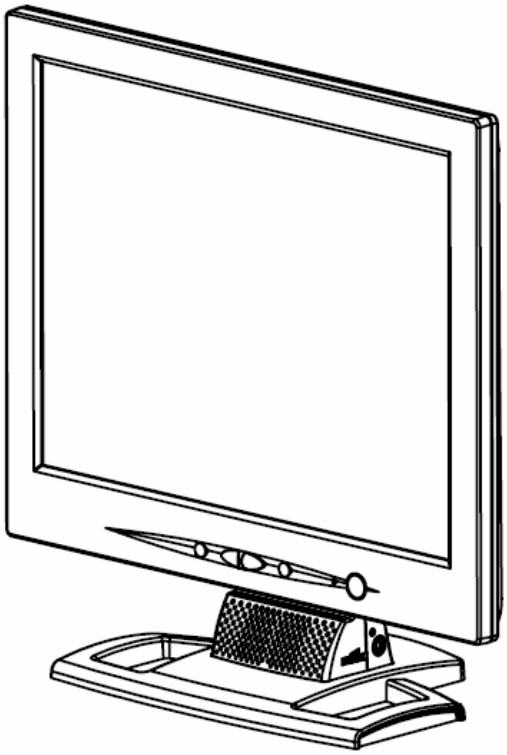
SERVICE MANUAL

15” LCD MONITOR

TFT1560PSA+



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Revision List

Version	Date	Revision History	TPV Model
A00	May-17-2006	Initial release	T562KCDHBEAHA T562KSXHBEAHA

1. Monitor Specifications

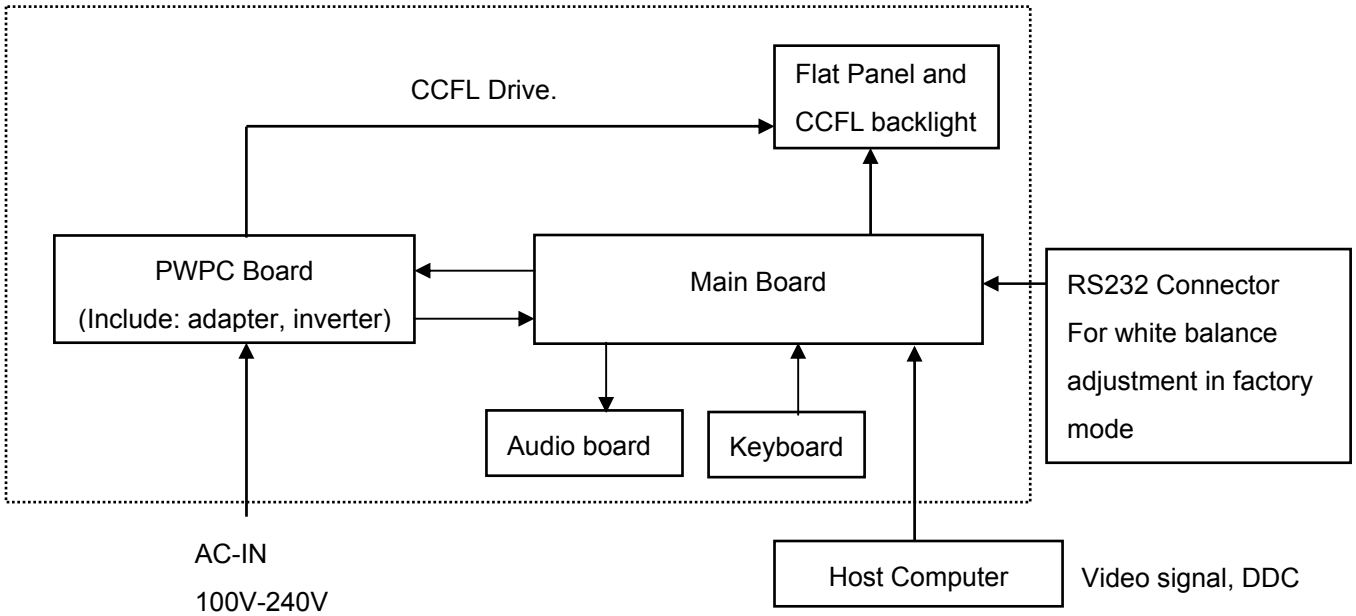
LCD Panel	Driving system	TFT Color LCD
	Size	38.0cm(15.0")
	Pixel pitch	0.297mm(H) x 0.297mm(V)
Input	Video	R, G, B Analog Interface
	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 60kHz
	V-Frequency	55-75Hz
Display Colors	16.7M Colors	
Dot Clock	80MHz	
Max. Resolution	1024 x 768	
Plug & Play	VESA DDC2B™	
EPA ENERGY STAR®	ON Mode	≤30W (For 2 CCFL)
	OFF Mode	≤2W
Audio output	Rated Power 2.0W rms (Per channel)	
Input Connector	D-Sub 15pin	
Input Video Signal	Analog:0. 7Vp-p(standard), 75 OHM, Positive	
Maximum Screen Size	Horizontal : 304.1mm Vertical: 228.1mm	
Power Source	100~240VAC,50~60Hz	
Environmental Considerations	Operating Temp: 5° to 35°C Storage Temp: -20° to 60°C Operating Humidity: 10% to 85%	

2. LCD Monitor Description

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

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

Monitor Block Diagram



3. Operating Instructions

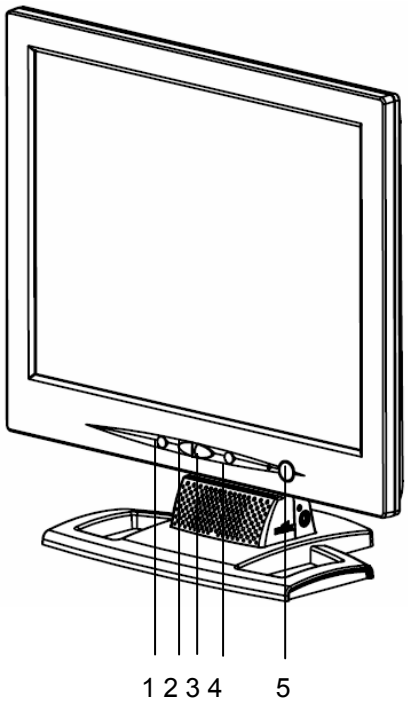
3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons 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.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Buttons

3.2.1 Key Control



External Control Button

No	Description	No	Description
1.	Auto Adjust button / Exit	2.	Volume / ◄
3.	Volume / ►	4.	Menu / Enter
5.	Power Button /LED		

3.2.2 Front Panel Control

- **Power Button /Power Indicator:**

  Press this button to switch ON/OFF of monitor's power.

  Green — Power On mode.

  Orange — Off mode.

- **Menu / Enter:**

  Active OSD menu or function adjust confirm or Exit OSD menu when in volume OSD status.

- **Volume** / ►:

  Increase volume or adjust function.

- **Volume** / ◄:

  Decrease volume or adjust function.

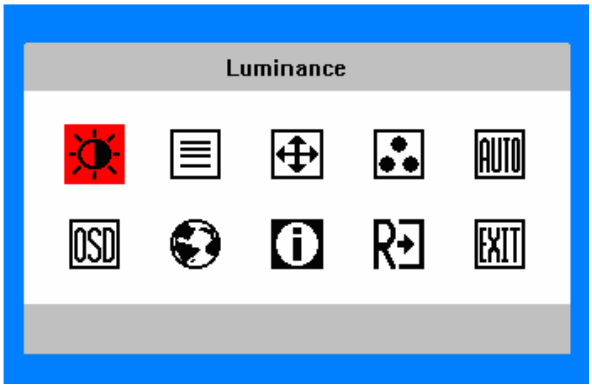
- **Auto Adjust button / Exit:**

  1. When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).
  2. When OSD menu is in off status, press this button to activate the Auto Adjustment function. The Auto Adjustment function is used to optimize the HPos, VPos, Clock and Focus.

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.

3.3 Adjusting The Picture

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 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.
3. Press ◀ or ▶ to change the settings of the selected function.
4. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.



The OSD Message

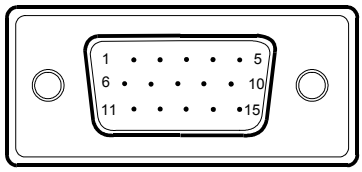
OSD Table:

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
Luminance		Contrast		Contrast from Digital-register.
		Brightness		Backlight Adjustment
Image Setup		Focus		Adjust Picture Phase to reduce Horizontal-Line noise
		Clock		Adjust picture Clock to reduce Vertical-Line noise.
Image Position		H. Position		Adjust the horizontal position of the picture.
		V. Position		Adjust the vertical position of the picture.
Color Temp.		Warm	N/A	Recall Warm Color Temperature from EEPROM.
		Cool	N/A	Recall Cool Color Temperature from EEPROM.
		User / Red	R	Red Gain from Digital-register.
		User / Green	G	Green Gain Digital-register.

		User / Blue	B	Blue Gain from Digital-register.
Auto Config	AUTO	Yes	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.
		No	N/A	Do not execute Auto Config, return to main menu.
OSD Setup	OSD	H. Position		Adjust the horizontal position of the OSD.
		V. Position		Adjust the vertical position of the OSD.
		OSD Timeout		Adjust the OSD timeout.
Language		Language	N/A	Set OSD language
Information		Information	N/A	Show the resolution, H/V frequency and input port of current input timing.
Reset		Yes	N/A	Clear each old status of Auto-configuration and set the color temperature to Cool.
		No	N/A	Do not execute reset, return to main menu.
Exit	EXIT	N/A	N/A	Exit OSD

4. Input/Output Specification

4.1 Input Signal Connector

Pin No.	Description	Pin No.	Description
1.	Red	9.	+5V
2.	Green	10.	VGA-CON
3.	Blue	11.	RXD
4.	TXD	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		
VGA Connector layout			
			

4.2 Factory Preset Display Modes

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
VGA	720 x 400	31.47	70.0
	640 × 480	31.47	60.0
	640 × 480	35.00	66.6
	640 × 480	37.50	75.0
	640 × 480	37.861	72.8
SVGA	800 × 600	35.156	56.3
	800 × 600	37.879	60.0
	800 × 600	48.077	72.2
	800 × 600	46.875	75.0
	832 x 624	49.725	75.0
XGA	1024 × 768	48.363	60.0
	1024 × 768	56.476	70.0
	1024 x 768	60.24	74.9
	1024 × 768	60.02	75.0

4.3 Power Supply Requirement

A/C Line voltage range	100 V ~ 240 V
A/C Line frequency range	50 ± 3Hz, 60 ± 3Hz
Peak surge current	< 55A peak at 240 VAC and cold starting
Leakage current	< 3.5mA
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second
DC output Voltage	12VDC± 5%

4.4 Panel Specification

4.4.1 General Characteristics

CLAA150XG08

ITEM	SPECIFICATION
Display Area(mm)	304.1(H)x228.1(V) (15.0-inch diagonal)
Number of Pixels	1024 (H)x768(V)
Pixel Pitch(mm)	0.297(H)x0.297(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	Normally white TN
Number of Colors	262144(6bits/color)
Brightness(cd/m^2)	250cd/m^2(Typ.)
Viewing Angle	-60~60(H),-55~45(V)(Typ.)
Wide Viewing Angle Technology	Optical Compensation Film
Surface Treatment	Anti-glare,3H
Electrical Interface	RSDS (1 pixel/clock)
Total Module Power(W)	10.5(Typ.)
Optimum Viewing Angle	6 o'clock
Module Size(mm)	326.0(W)x251.0(H)x12.0(D)
Module Weight(g)	1200
Backlight Unit	CCFL, 2 tables, edge-light(top/bottom)

LTM150XH-L01

Items	Specification	Unit
Display area	304.128(H) x 228.096(V)	mm
Driver element	a-Si TFT active matrix	
Display colors	16.2M	colors
Number of pixels	1028 x 768	pixel
Pixel arrangement	RGB vertical stripe	
Pixel pitch	0.297(H) x 0.297(W)	mm
Display mode	Normally White	
Surface treatment	Haze 25% , Hard-coating (3H)	

4.4.2 Optical Characteristics

CLAA150XG08

Ta = 25°C , Vcc=12.0V

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Contrast Ratio		CR	θ =ϕ=0°	300	400	--	--
Luminance	Normal	LW	θ =ϕ=0°	200	250	--	cd/m^2
	Uniformity	ΔLW	θ =ϕ=0°	75	80	--	%
Response Time (Black/White)		Tr	θ =ϕ=0°	--	9	18	ms
		Tf		--	16	32	ms
Viewing Angle	Horizontal	ϕ	CR≧10	-50 ~ 50	-60 ~ 60	--	°
	Vertical	θ		-45 ~ 35	-55 ~ 45	--	°
	Horizontal	ϕ	CR≧5	-65 ~ 65	-75 ~ 75	--	°
	Vertical	θ		-65 ~ 45	-75 ~ 50	--	°
Image sticking		tis	2hours	--	--	2	s
Cross talk		CMR	θ = φ =0	--	--	1	%
Gamut(%)		Gamut		47	50	--	%
Color Coordinates	Red	Rx Ry	θ =ϕ=0°	0.570 0.315	0.600 0.345	0.630 0.375	--
	Green	Gx Gy		0.270 0.545	0.300 0.575	0.330 0.605	
	Blue	Bx By		0.120 0.100	0.150 0.130	0.180 0.160	
	White	Wx Wy		0.270 0.300	0.300 0.330	0.330 0.360	

LTM150XH-L01

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Contrast Ratio (Center of screen)		C/R	Normal $\phi = 0$ $\theta = 0$ Viewing Angle	200	300	-	
Response Time	Rising	Tr		-	5	7	msec
	Falling	Tf		-	20	24	
Luminance of White (Center of screen)		YL		200	250	-	cd/m2
Color Chromaticity (CIE 1931)	Red	Rx		0.598	0.628	0.658	
		Ry		0.323	0.353	0.383	
	Green	Gx		0.260	0.290	0.320	
		Gy		0.565	0.595	0.625	
	Blue	Bx		0.114	0.144	0.174	
		By		0.058	0.088	0.118	
	White	Wx		0.274	0.304	0.334	
		Wy		0.295	0.325	0.355	
Viewing Angle	Hor.	θ L	CR≥10	60	65	-	Degrees
		θ R		60	65	-	
	Ver.	ϕ H		45	50	-	
		ϕ L		50	55	-	
Brightness Uniformity (9 Points)		Buni		-	-	28	%

4.4.3 Electrical Characteristics

CLAA150XG08

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply Voltage for Logic		VDDD	3.0	3.3	3.6	V
Power Supply Current for Logic		IDDD	-	40	100	mA
Permissive Ripple Voltage for Logic		VRPd	-	-	30	mV
Power Supply Voltage for DC-DC		VCC	10.8	12	13.2	V
Power Supply Current for DC-DC		ICC	-	100	250	mA
Permissive Ripple Voltage for DC-DC		VRPc	-	-	100	mV
Differential impedence		Zm	90	100	110	Ω
Input Threshold Voltage	High	VTH	0.7*VDDD	—	VDDD	V
	Low	VTL	0	—	0.3*VDDD	V

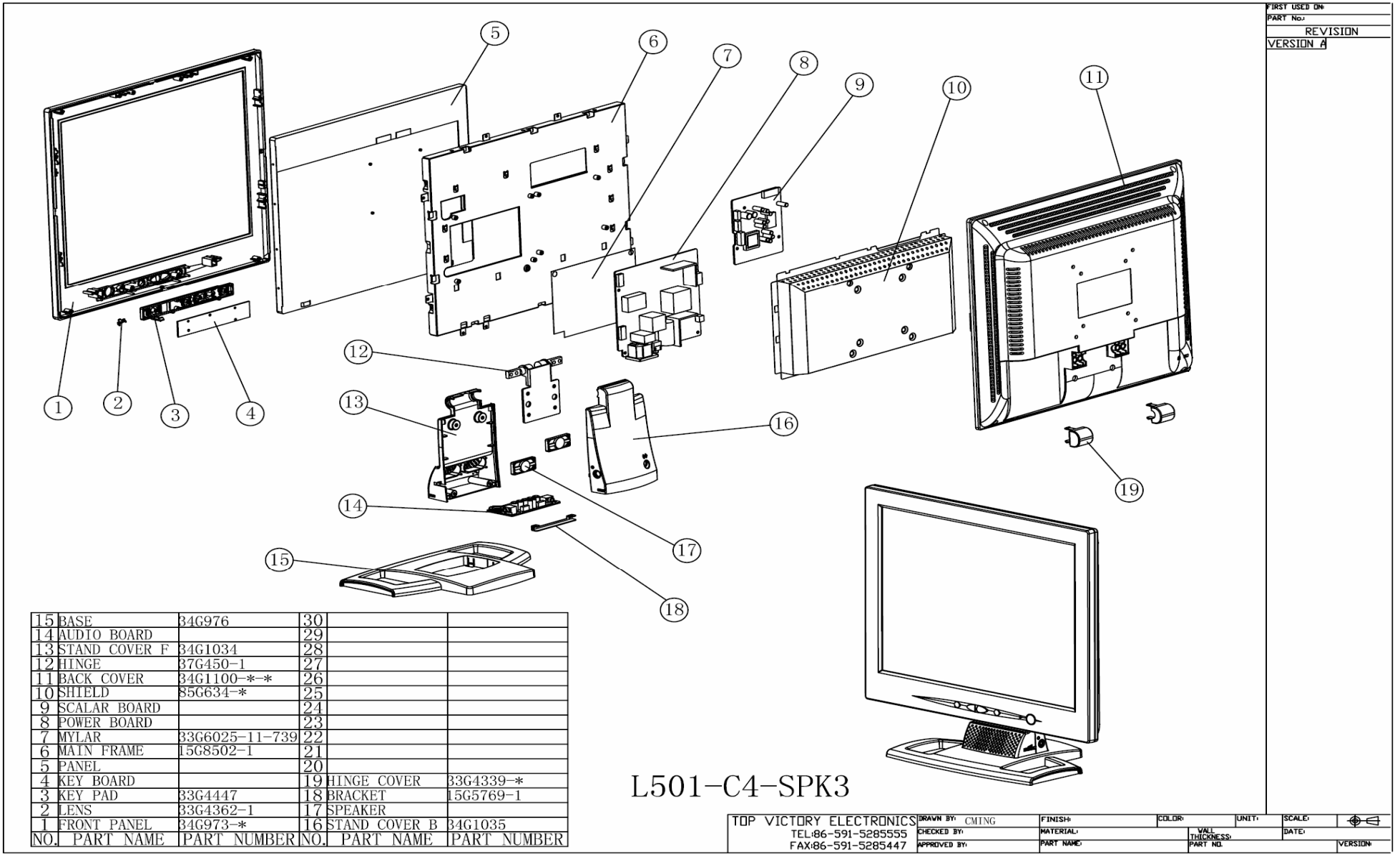
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Lamp Voltage	VL	-	610	-	V
Lamp Current	IL	4.0	8.0	8.5	mA
Interter Frequency	FL	40	50	60	kHz
Starting Lamp Voltage	VS	1300	-	-	V
		1100	-	-	V
Lamp life Time	LT	30000	40000	-	hr

ITEM		SYMBOL	MIN.	TYP.	MAX.	UNIT
Voltage of Power Supply		VCC	3.0V	3.3V	3.6V	V
Differential Input Threshold Voltage		VH	-	-	+100	mA
		VL	-100	-	-	mA
Current of Power Supply	(a) White	IDD	-	360	-	mA
	(b) Black		-	400	-	mA
	(c) Sparse dot moire		-	450	600	mA
Vsync Frequency		fV	-	60	75	Hz
Hsync Frequency		fH	-	48.4	60	KHz
Main Frequency		fDCLK	-	65	78.75	MHz
Rush Current		IRUSH	-	-	1.5	A

Item	Symbol	Min.	Typ.	Max.	Unit
Lamp Current	IL	3.0	6.0	6.5	mArms
Lamp Voltage	VL	-	655	-	Vrms
Lamp Frequency	fL	40	-	80	kHz
Operating Life Time	Hr	25,000	-	-	Hour
Startup Voltage	Vs	-	-	25℃ : 1,220	Vrms
				0∘C : 1,710	

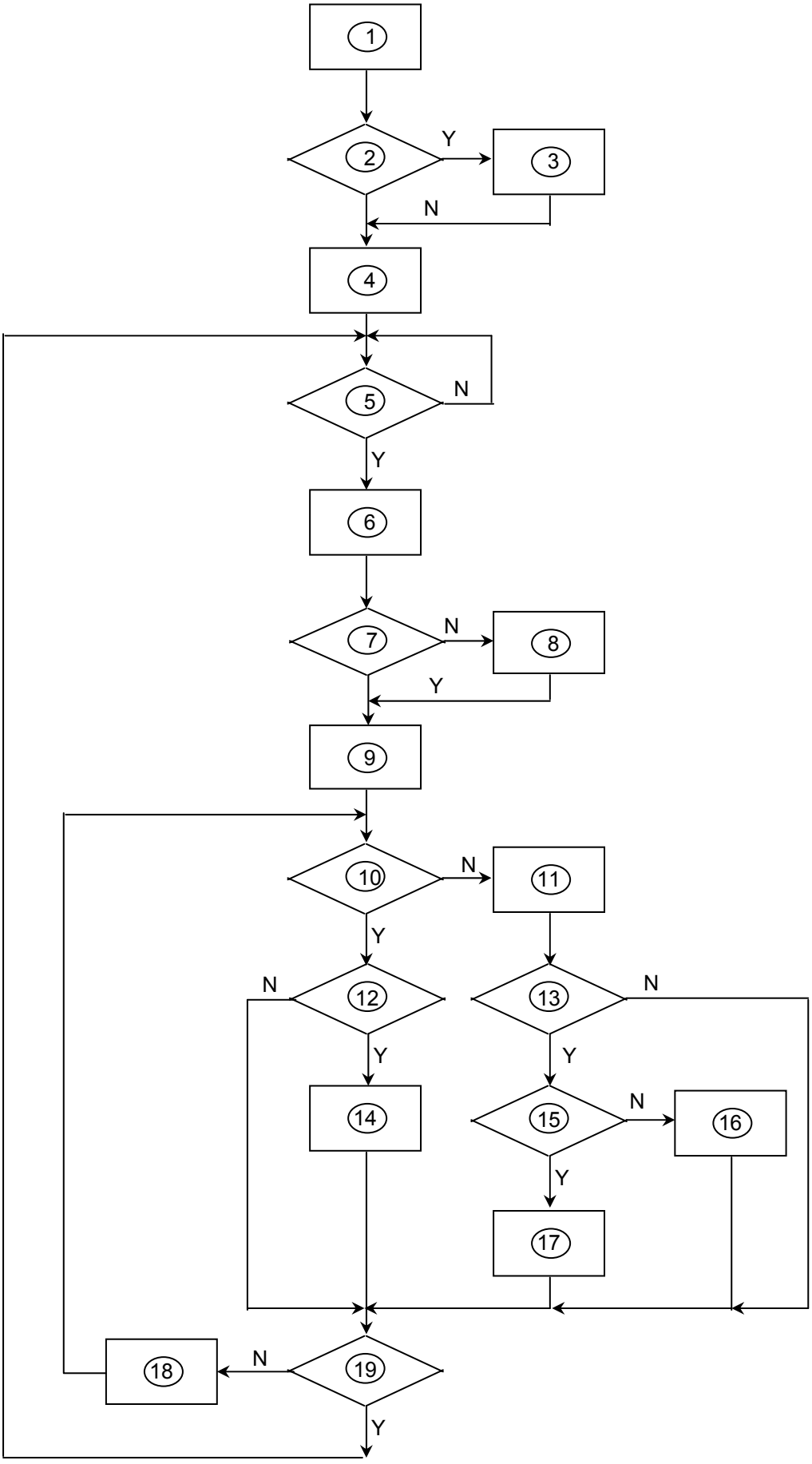
5. Block Diagram

5.1 Monitor Exploded View



NO.	PART NAME	PART NUMBER	NO.	PART NAME	PART NUMBER
15	BASE	34G976	30		
14	AUDIO BOARD		29		
13	STAND COVER F	34G1034	28		
12	HINGE	37G450-1	27		
11	BACK COVER	34G1100-*-*	26		
10	SHIELD	85G634-*	25		
9	SCALAR BOARD		24		
8	POWER BOARD		23		
7	MYLAR	33G6025-11-739	22		
6	MAIN FRAME	15G8502-1	21		
5	PANEL		20		
4	KEY BOARD		19	HINGE COVER	33G4339-*
3	KEY PAD	33G4447	18	BRACKET	15G5769-1
2	LENS	33G4362-1	17	SPEAKER	
1	FRONT PANEL	34G973-*	16	STAND COVER B	34G1035

5.2 Software Flaw Chart



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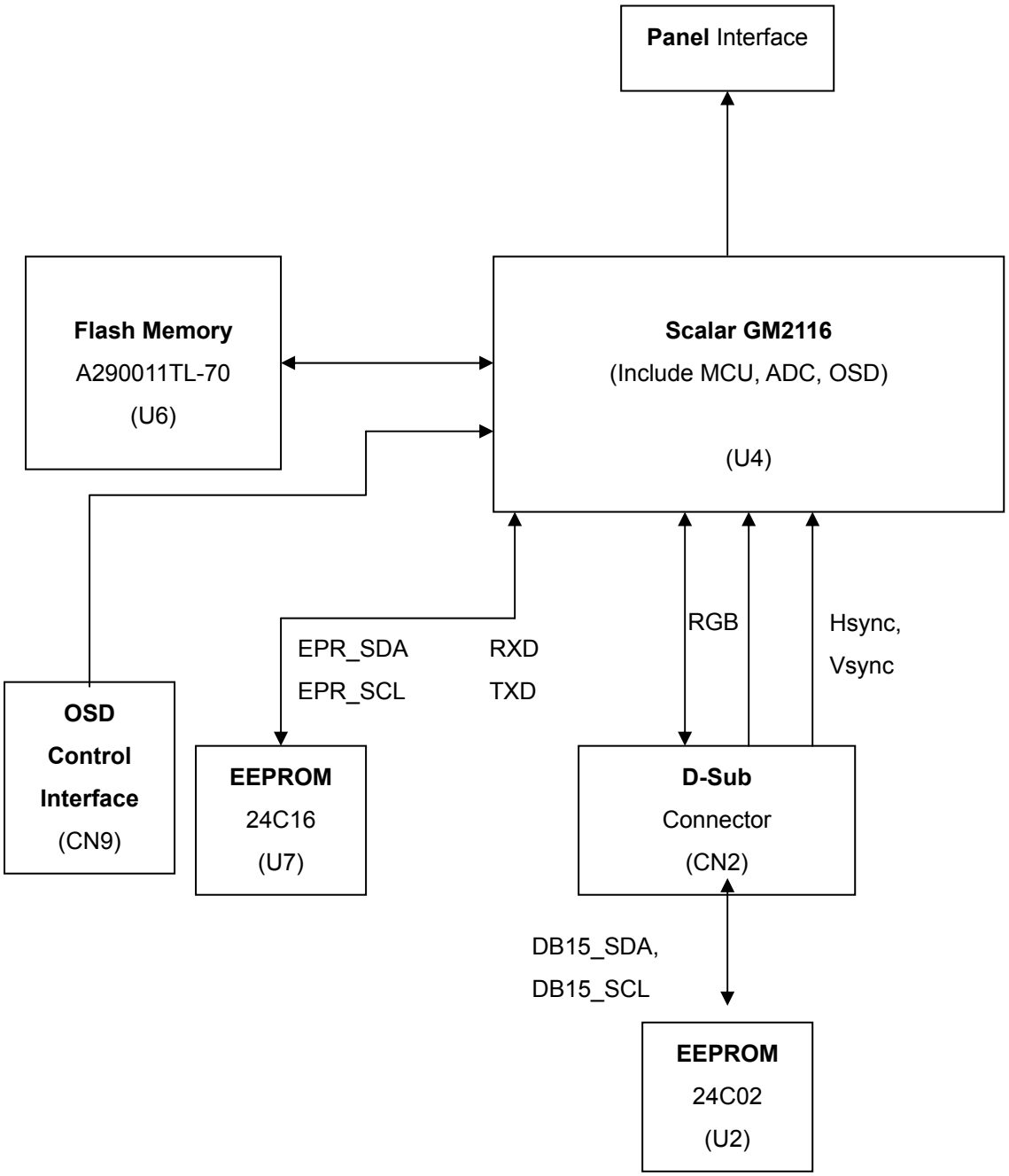
Remark:

1. Initialize MCU settings, including I/O, Timer, ISR and Serial Port settings.
2. Read EEPROM content to recover monitor settings, including brightness, contrast, color temperature and OSD position etc.
3. Initialize system variable, including system flag, OSD timeout counter, burin mode status… etc.
4. Initialize OSD menu variable for user operation
5. Initialize device on the board, now only MST scalar chip will be initialized
6. Check if system is in power off status from first AC power up. If yes, then go to 7, else go to 8.
7. If yes, system will be forced to enter power off status
8. Mode detection
9. Check if input timing has been changed, if yes then go to 10, else go to 11
10. Setup MST scalar for display according input timing
11. OSD handler for OSD operation.
12. Debug handler, only debug only

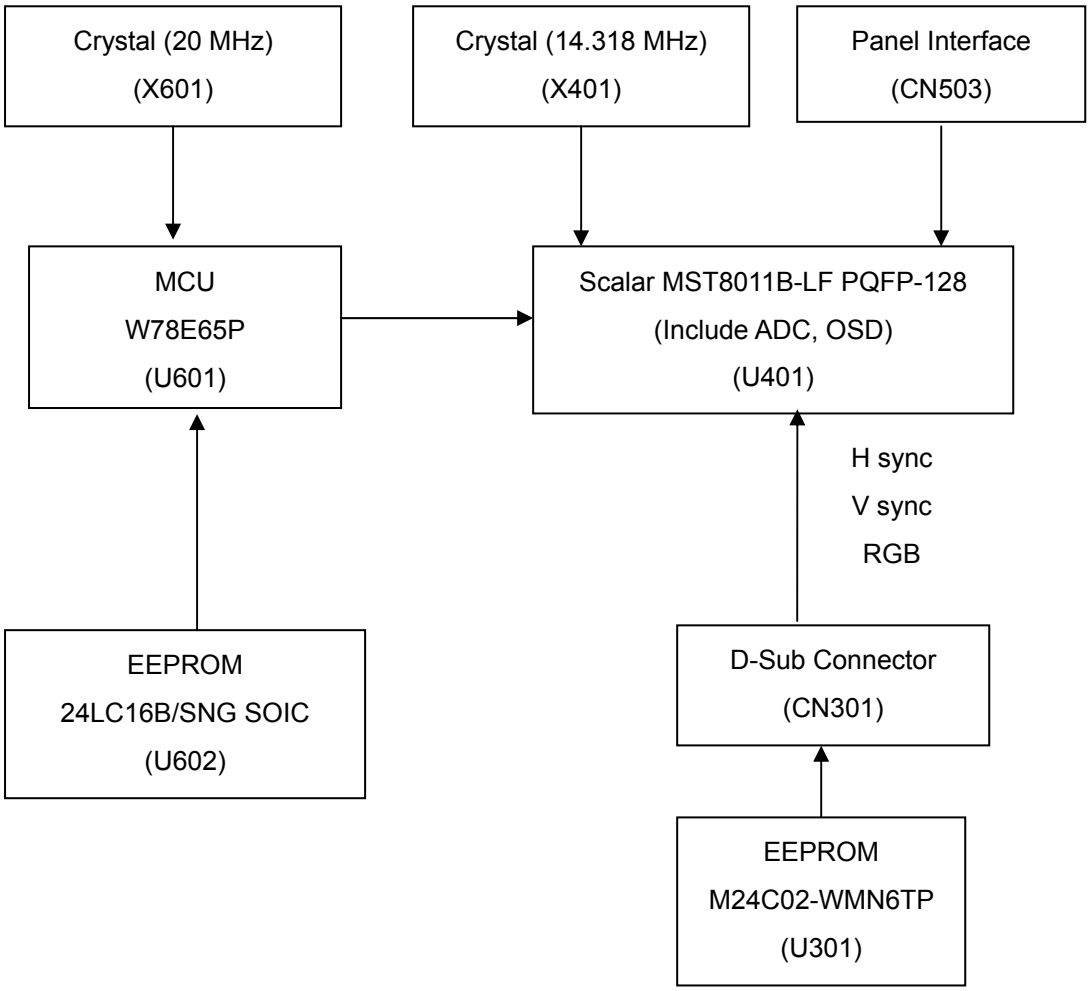
5.3 Electrical Block Diagram

5.3.1 Main Board

715L1100 1

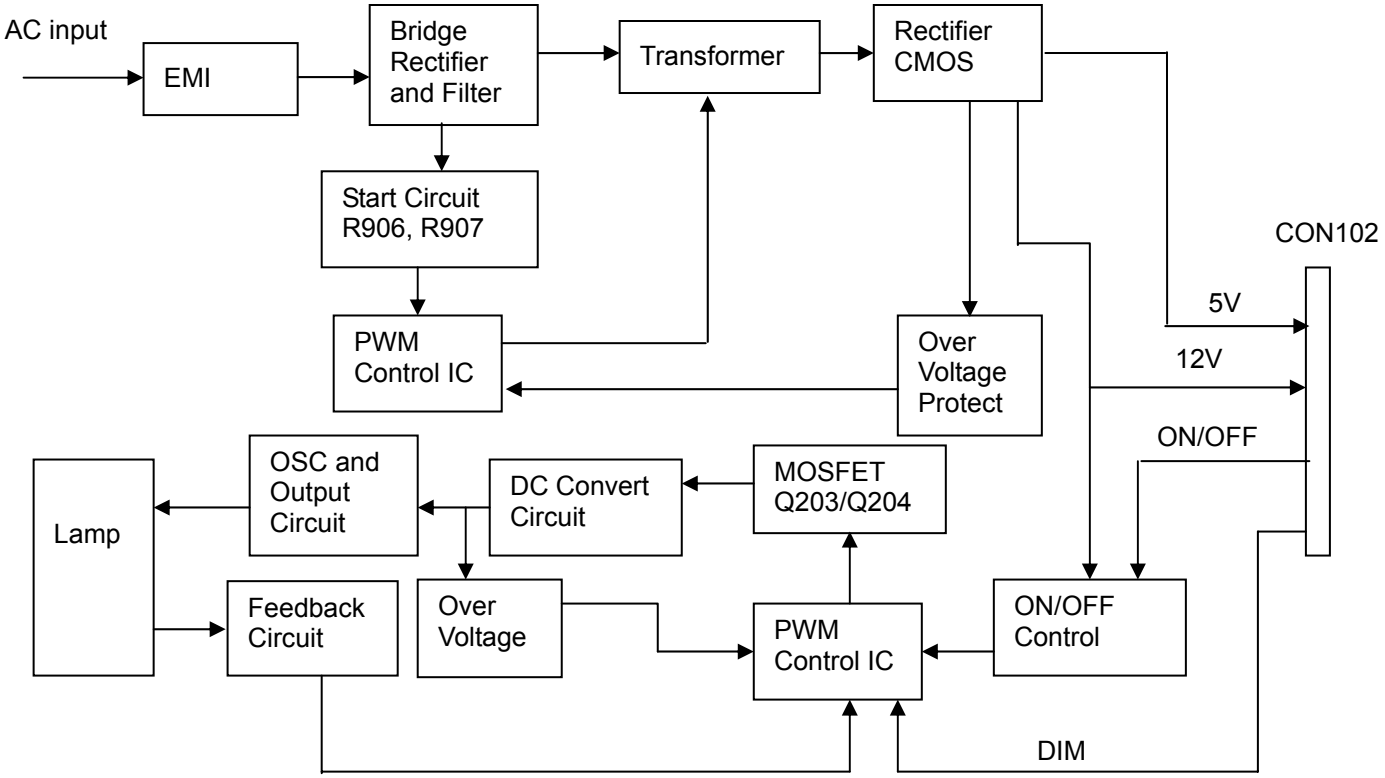


715L1203 1


Crystal (20 MHz)
(X601)
Crystal (14.318 MHz)
(X401)
Panel Interface
(CN503)
MCU
W78E65P
(U601)
Scalar MST8011B-LF PQFP-128
(Include ADC, OSD)
(U401)
H sync
V sync
RGB
EEPROM
24LC16B/SNG SOIC
(U602)
D-Sub Connector
(CN301)
EEPROM
M24C02-WMN6TP
(U301)

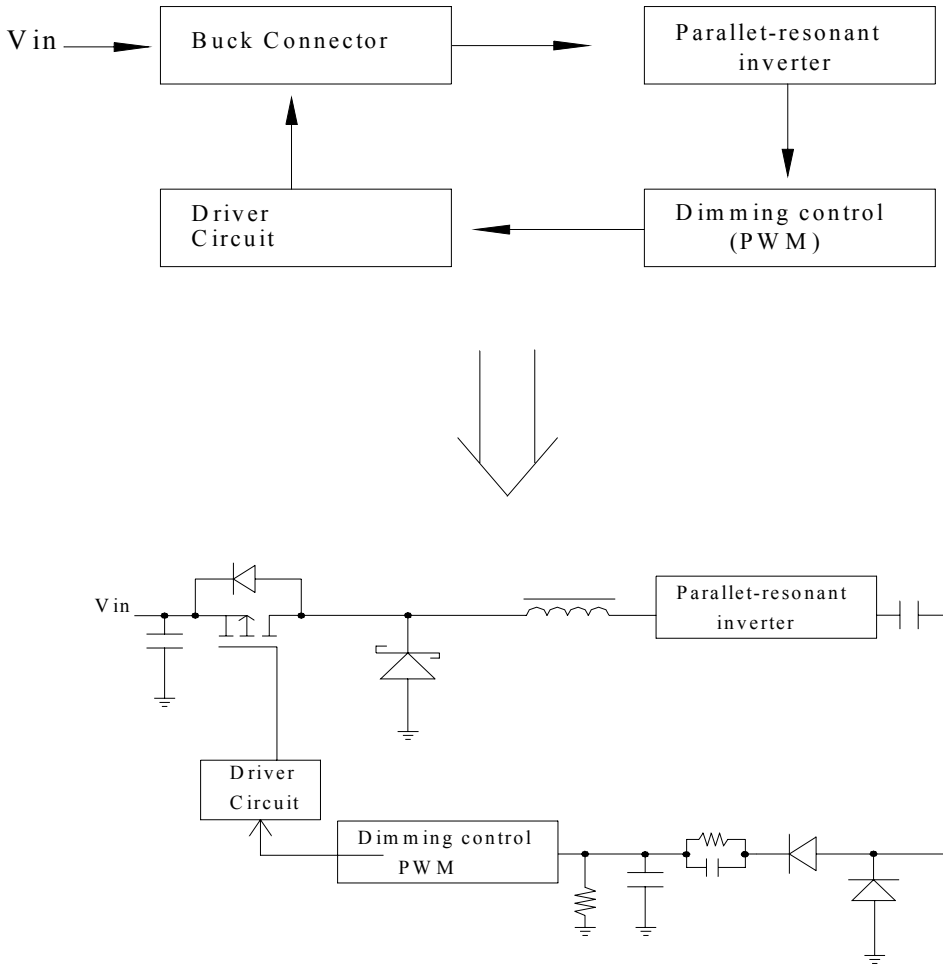
5.3.2 Inverter/Power Board

715L1034 1 A 1

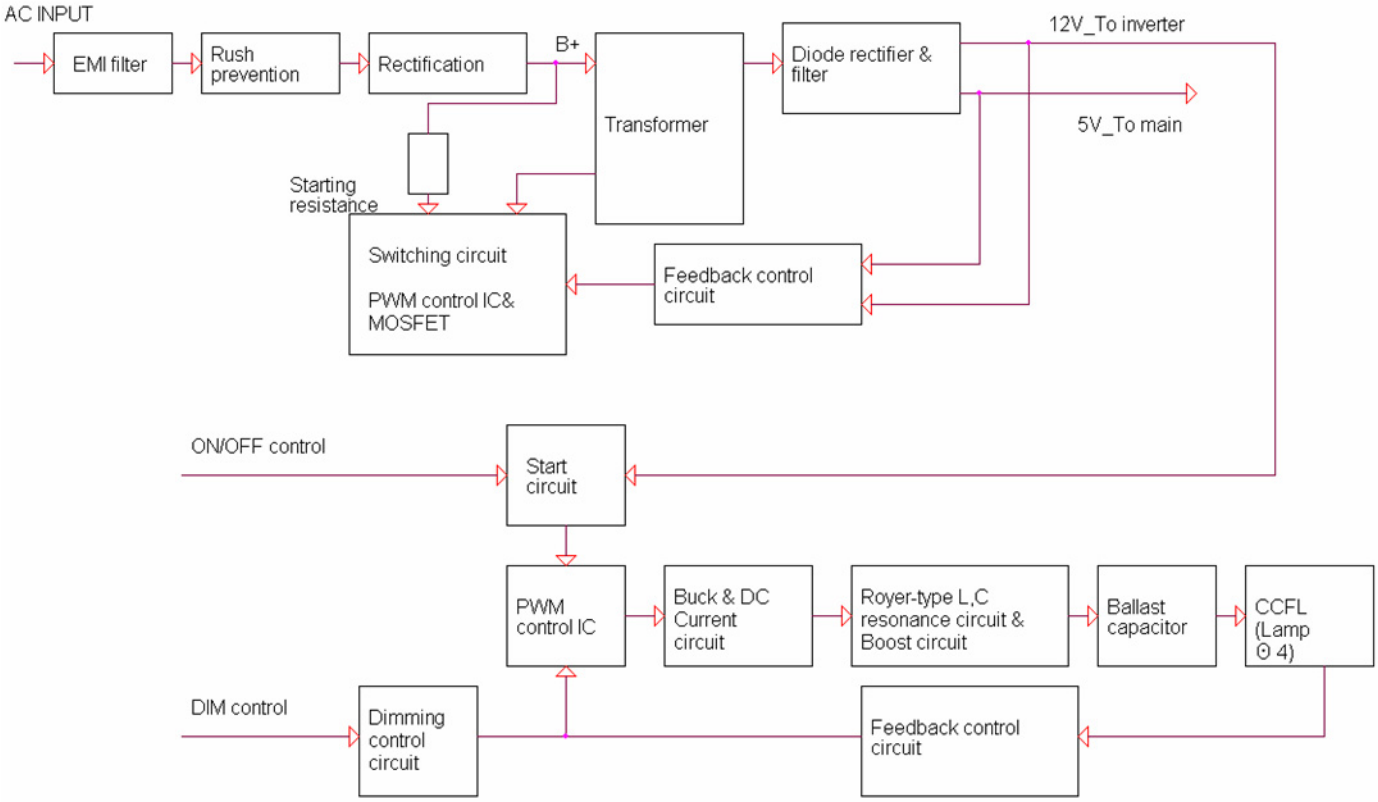


715L1224 3

Inverter Block Diagram



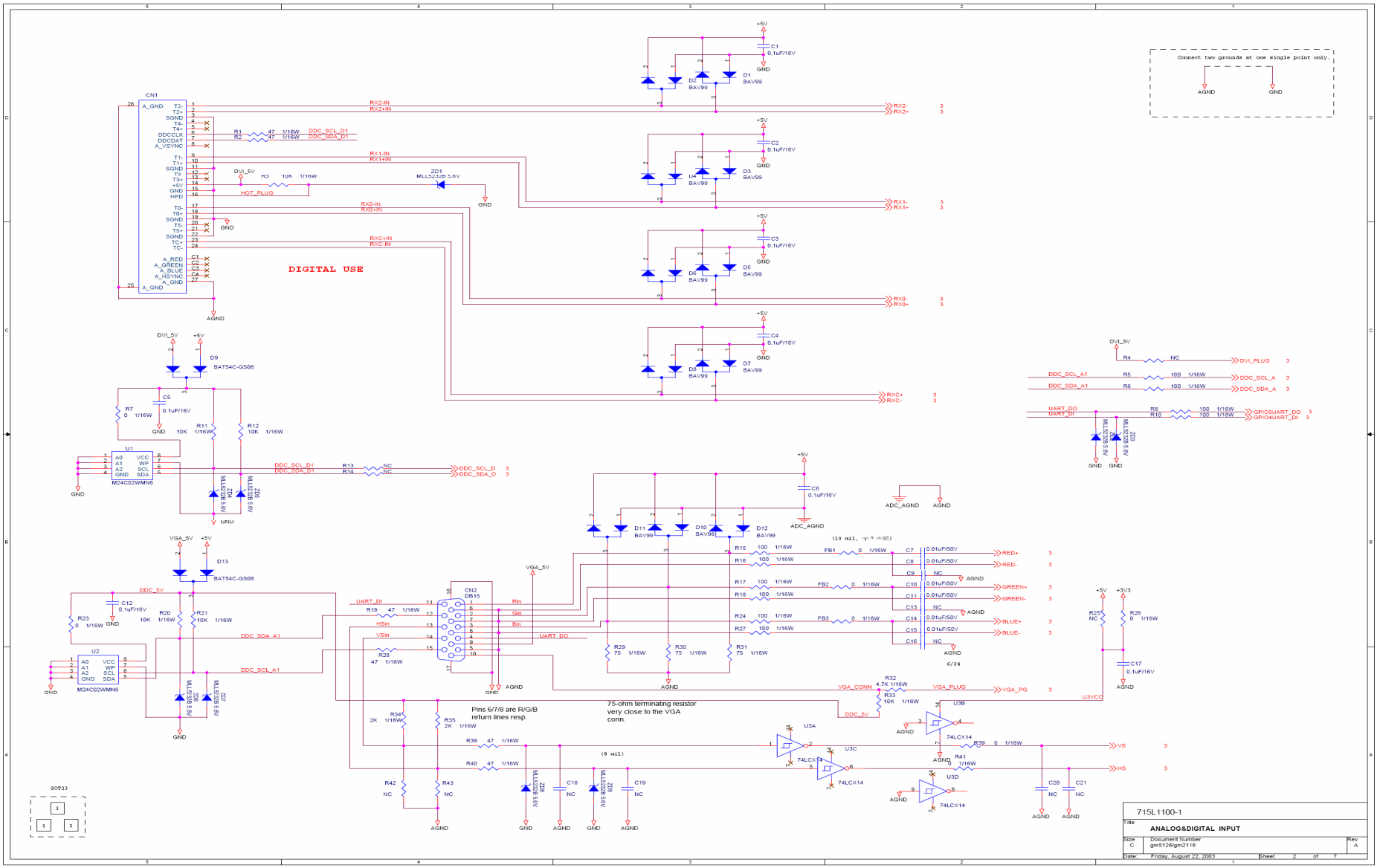
Power Block Diagram

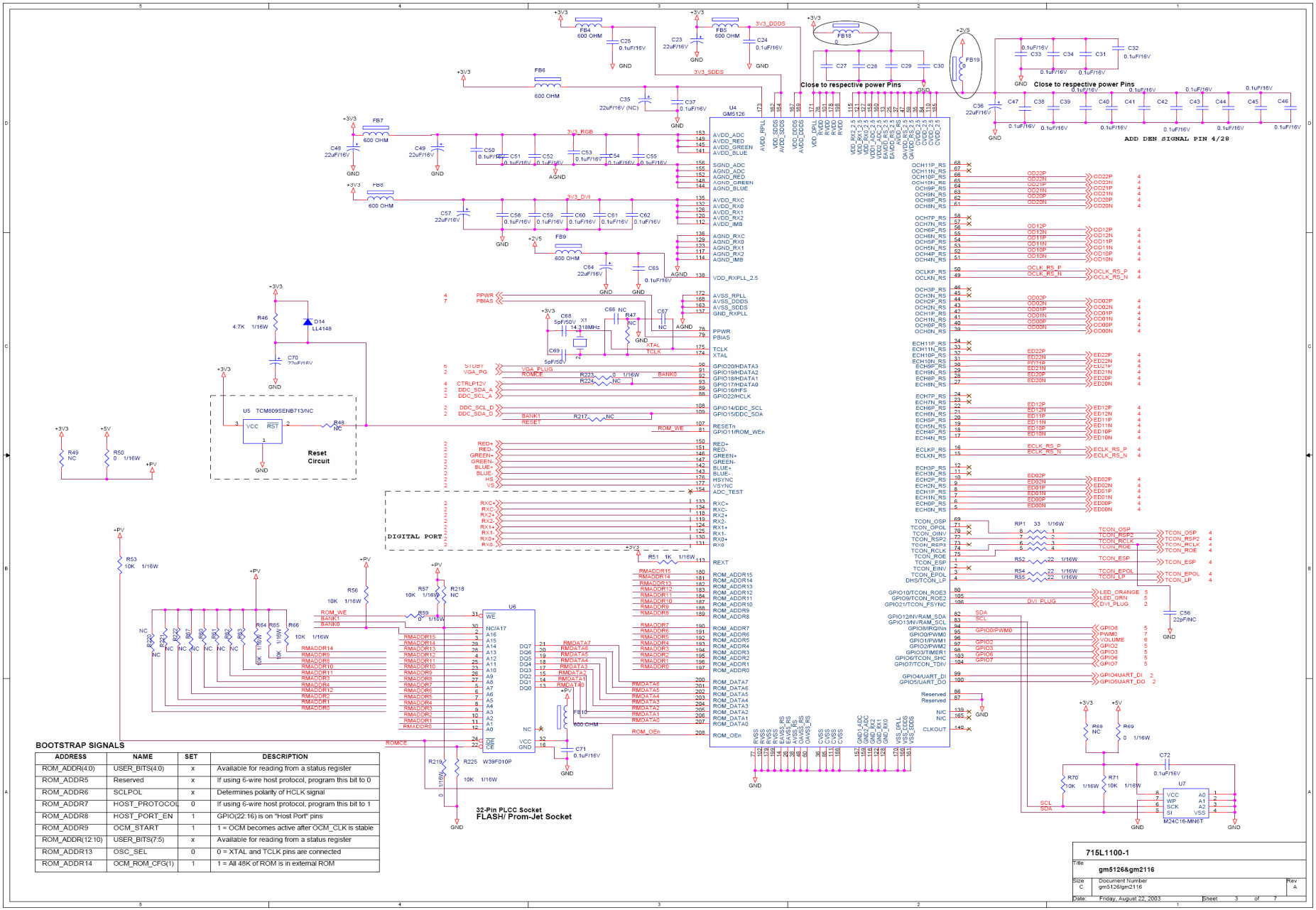


6. Schematic Diagram

6.1 Main Board

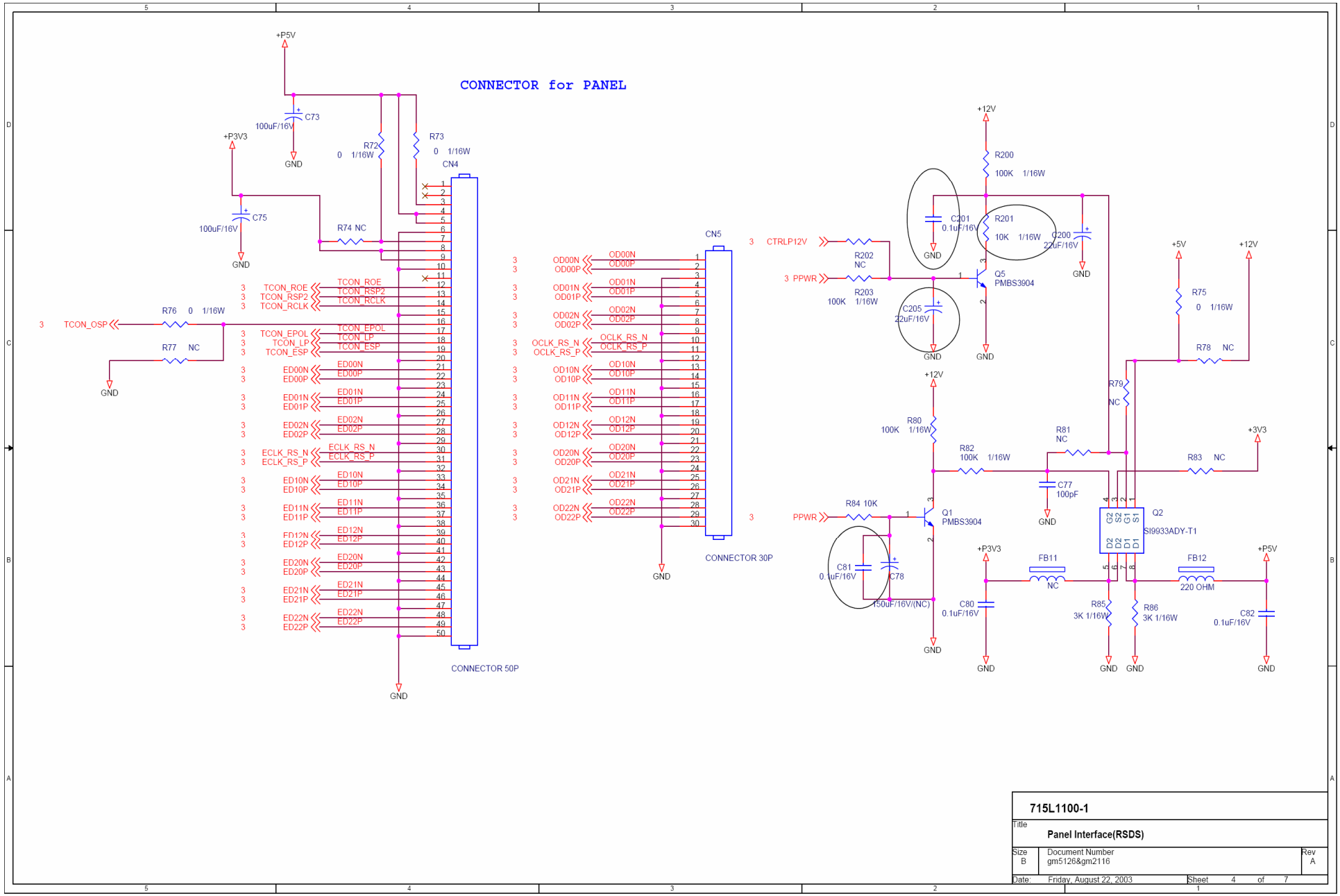
715L1100 1

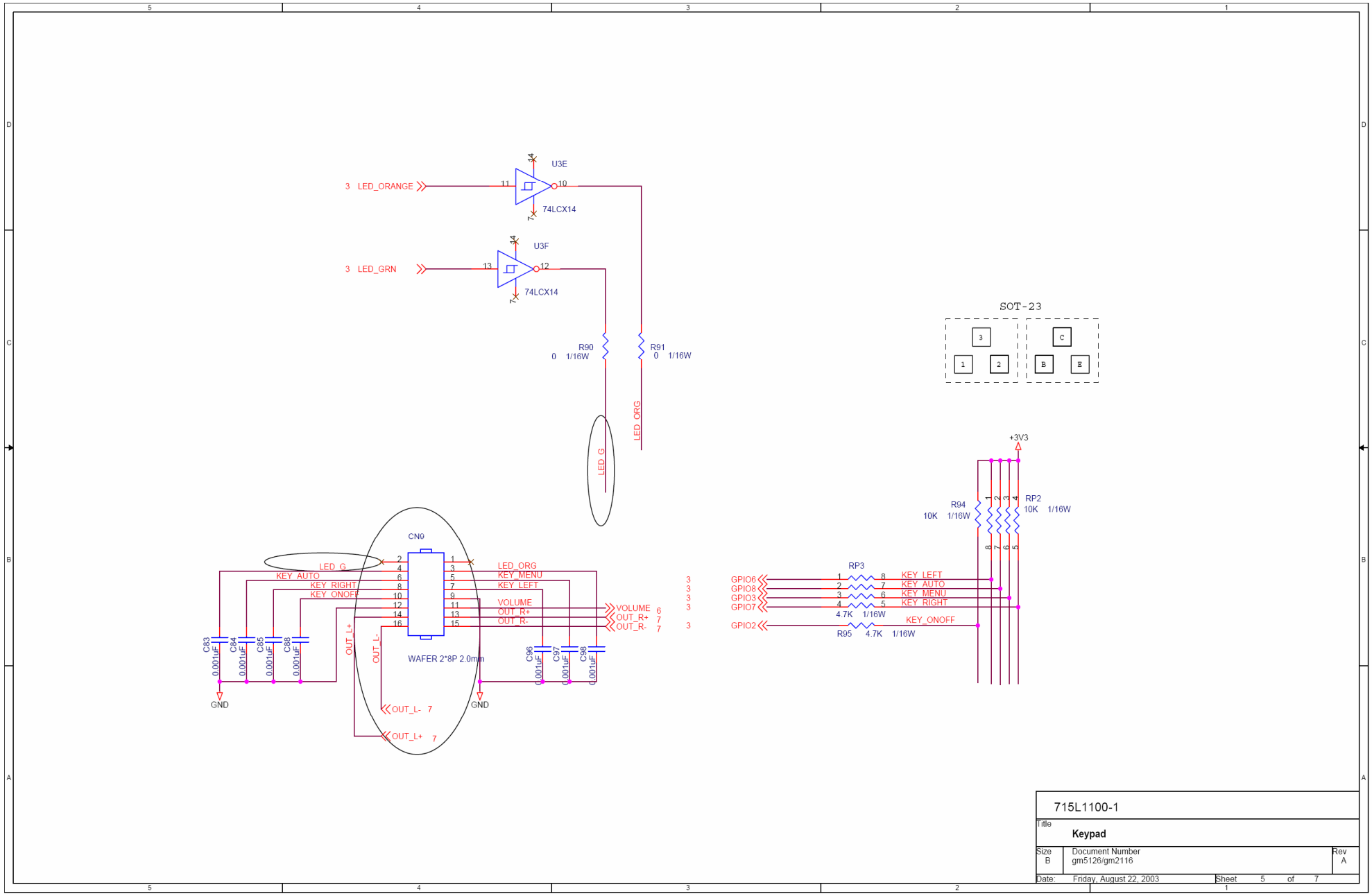


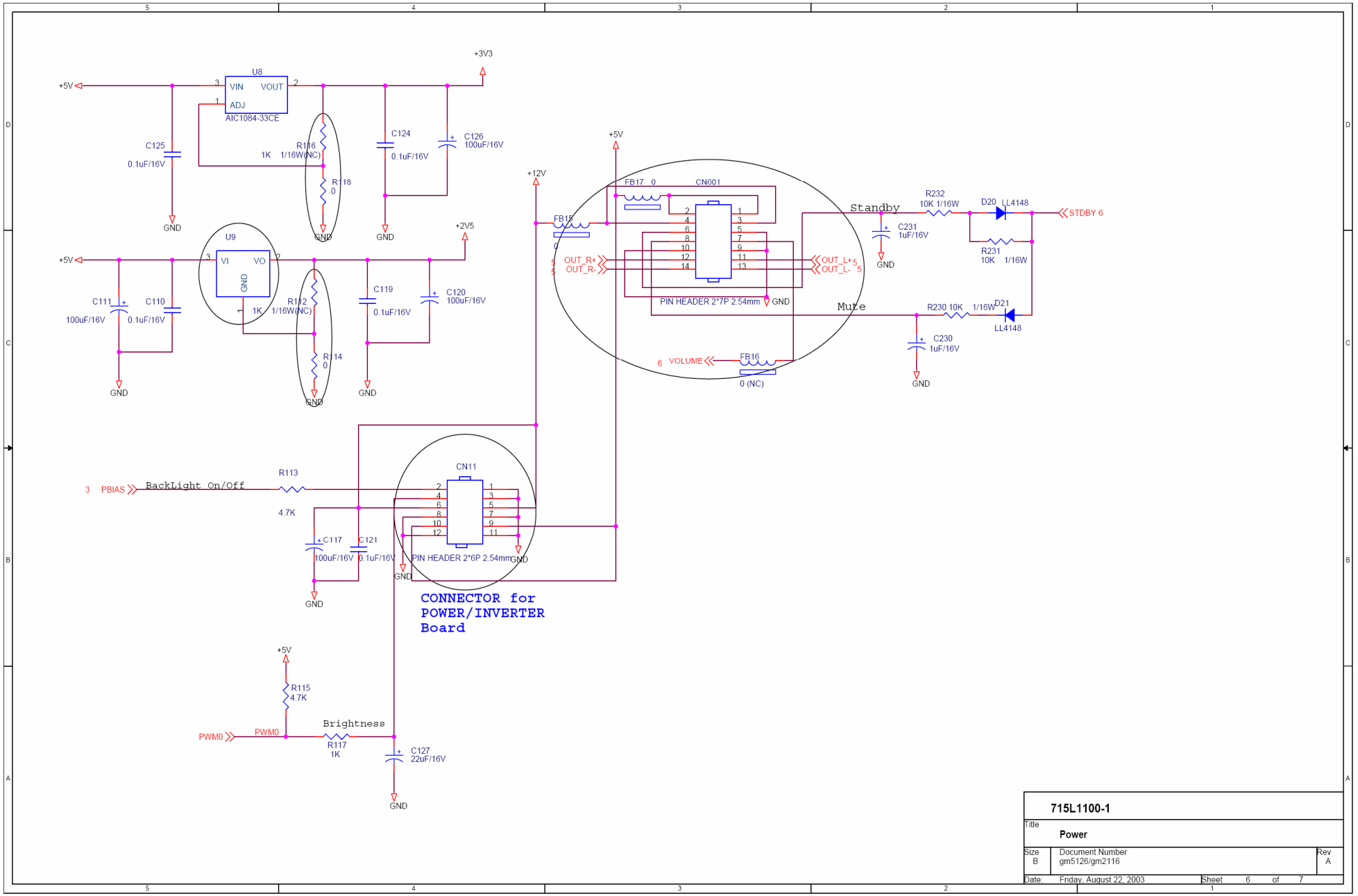


BOOTSTRAP SIGNALS

ADDRESS	NAME	SET	DESCRIPTION
ROM_ADDR(4:0)	USER_BITS(4:0)	x	Available for reading from a status register
ROM_ADDR5	Reserved	x	If using 6-wire host protocol, program this bit to 0
ROM_ADDR6	SCLPOL	x	Determines polarity of HCLK signal
ROM_ADDR7	HOST_PROTOCOL	0	If using 6-wire host protocol, program this bit to 1
ROM_ADDR8	HOST_PORT_EN	1	GPIO(22:16) is on "Host Port" pins
ROM_ADDR9	OCM_START	1	1 = OCM becomes active after OCM_CLK is stable
ROM_ADDR(12:10)	USER_BITS(7:5)	x	Available for reading from a status register
ROM_ADDR13	OSC_SEL	0	0 = XTAL and TCLK pins are connected
ROM_ADDR14	OCM_ROM_CFG(1)	1	1 = All 48K of ROM is in external ROM

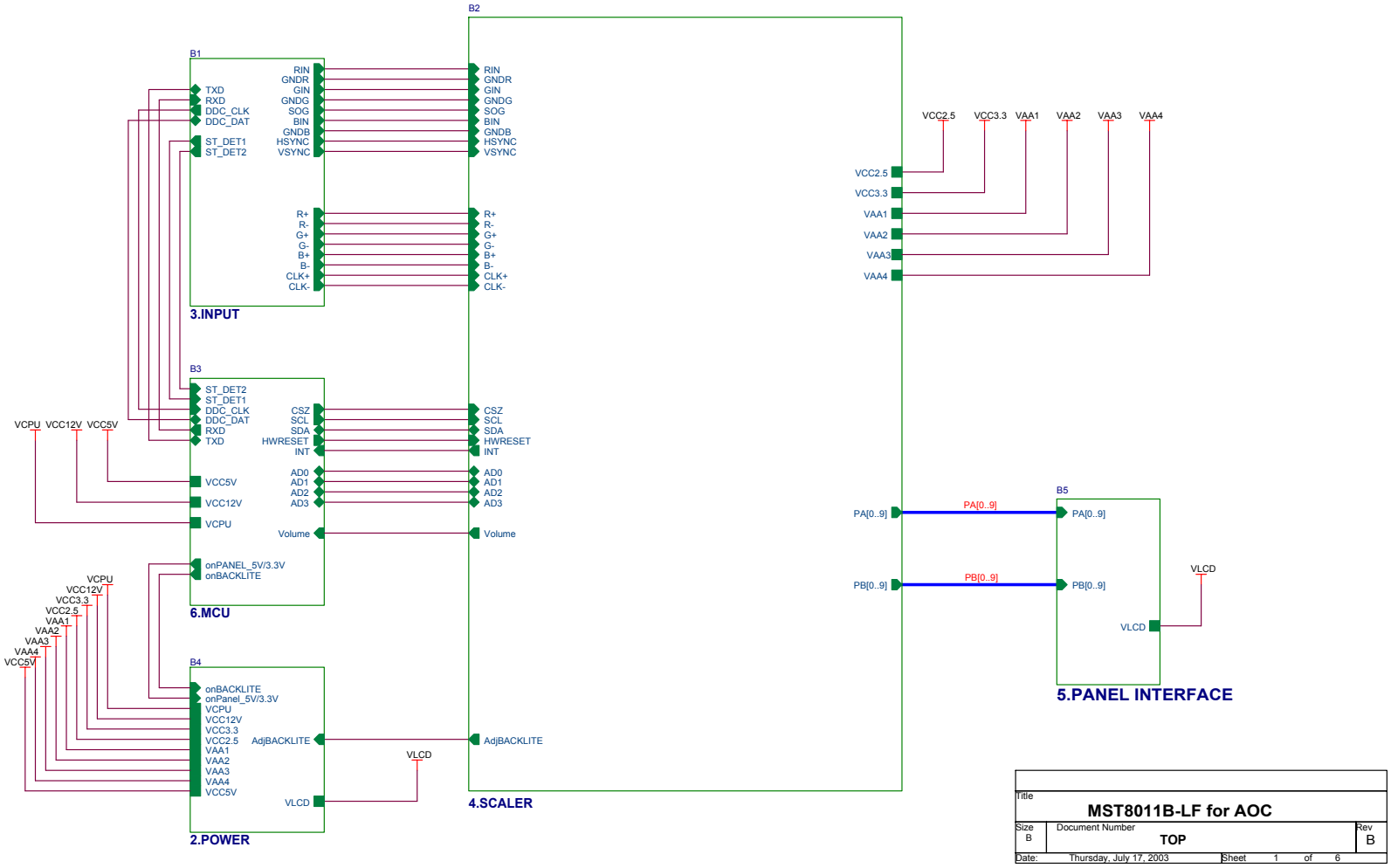

CONNECTOR for PANEL
+P5V
C73
100uF/16V
GND
+P3V3
C75
100uF/16V
R72
0 1/16W
R73
0 1/16W
CN4
R74 NC
R76 0 1/16W
R77 NC
TCON_OSP
TCON_ROE
TCON_RSP2
TCON_RCLK
TCON_EPOL
TCON_LP
TCON_ESP
ED00N
ED00P
ED01N
ED01P
ED02N
ED02P
ECLK_RS_N
ECLK_RS_P
ED10N
ED10P
ED11N
ED11P
ED12N
ED12P
ED20N
ED20P
ED21N
ED21P
ED22N
ED22P
CONNECTOR 50P
CN5
OD00N
OD00P
OD01N
OD01P
OD02N
OD02P
OCLK_RS_N
OCLK_RS_P
OD10N
OD10P
OD11N
OD11P
OD12N
OD12P
OD20N
OD20P
OD21N
OD21P
OD22N
OD22P
CONNECTOR 30P
CTRLP12V
PPWR
R202 NC
R203 100K 1/16W
C205 22uF/16V
+12V
R200 100K 1/16W
C201 0.1uF/16V
R201 10K 1/16W
C200 22uF/16V
Q5 PMBS3904
+5V
R75 0 1/16W
R78 NC
R79 NC
R80 100K 1/16W
R81 NC
R82 100K 1/16W
R83 NC
+3V3
C77 100pF
R84 10K
Q1 PMBS3904
Q2 SI9933ADY-T1
C81 0.1uF/16V
C78 150uF/16V/(NC)
FB11 NC
FB12 220 OHM
C80 0.1uF/16V
R85 3K 1/16W
R86 3K 1/16W
C82 0.1uF/16V
715L1100-1
Panel Interface(RSDS)
Size B
Document Number gm5126&gm2116
Rev A
Date: Friday, August 22, 2003
Sheet 4 of 7


U3E
74LCX14
U3F
74LCX14
3 LED_ORANGE
3 LED_GRN
R90
0 1/16W
R91
0 1/16W
LED_ORG
LED_G
SOT-23
+3V3
R94
10K 1/16W
RP2
10K 1/16W
RP3
GPIO6
GPIO8
GPIO3
GPIO7
GPIO2
KEY_LEFT
KEY_AUTO
KEY_MENU
KEY_RIGHT
KEY_ONOFF
4.7K 1/16W
R95 4.7K 1/16W
CN9
LED_G
KEY_AUTO
KEY_RIGHT
KEY_ONOFF
LED_ORG
KEY_MENU
KEY_LEFT
VOLUME
OUT_R+
OUT_R-
OUT_L+
OUT_L-
WAFER 2*8P 2.0mm
C83 0.001uF
C84 0.001uF
C85 0.001uF
C86 0.001uF
C96 0.001uF
C97 0.001uF
C98 0.001uF
GND
GND
OUT_L- 7
OUT_L+ 7
715L1100-1
Keypad
Size B
Document Number gm5126/gm2116
Rev A
Date: Friday, August 22, 2003
Sheet 5 of 7

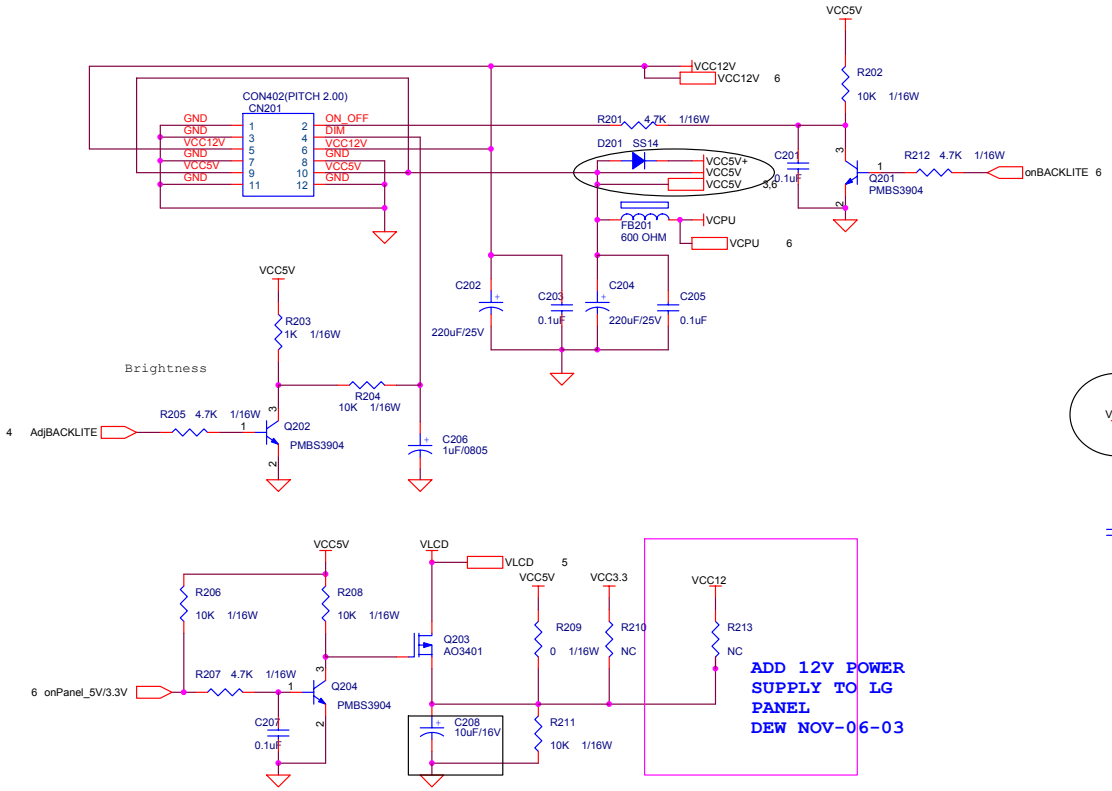

U8
VIN
VOUT
ADJ
AIC1084-33CE
+5V
+3V3
C125
0.1uF/16V
R116
1K 1/16W(NC)
R118
0
C124
0.1uF/16V
C126
100uF/16V
GND
U9
VI
VO
GND
+2V5
C111
100uF/16V
C110
0.1uF/16V
R112
1/16W(NC)
R114
0
C119
0.1uF/16V
C120
100uF/16V
+12V
FB15
FB17 0
CN001
OUT_R+
OUT_R-
OUT_L+
OUT_L-
PIN HEADER 2*7P 2.54mm
Standby
R232
10K 1/16W
D20 LL4148
STDBY 6
C231
1uF/16V
R231
10K 1/16W
Mute
R230 10K 1/16W
D21
LL4148
C230
1uF/16V
VOLUME
FB16
0 (NC)
PBIAS
BackLight On/Off
R113
4.7K
CN11
C117
100uF/16V
C121
0.1uF/16V
PIN HEADER 2*6P 2.54mm
CONNECTOR for
POWER/INVERTER
Board
R115
4.7K
PWM0
Brightness
R117
1K
C127
22uF/16V
715L1100-1
Power
Size B
Document Number
gm5126/gm2116
Rev A
Date: Friday, August 22, 2003
Sheet 6 of 7

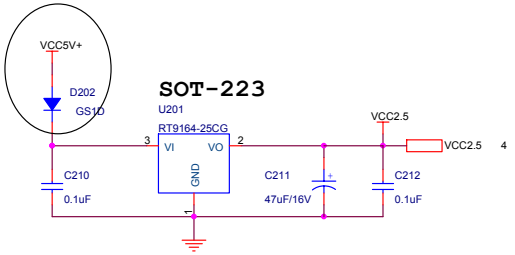
715L1203 1

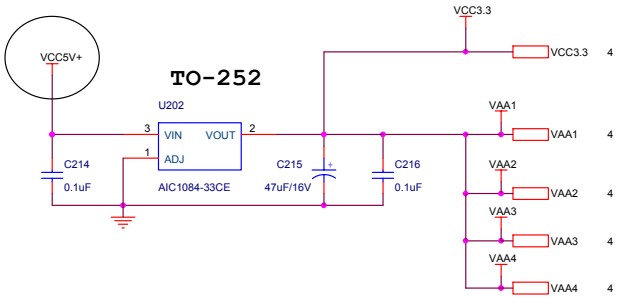
MST8011B-LF SCHEMATIC



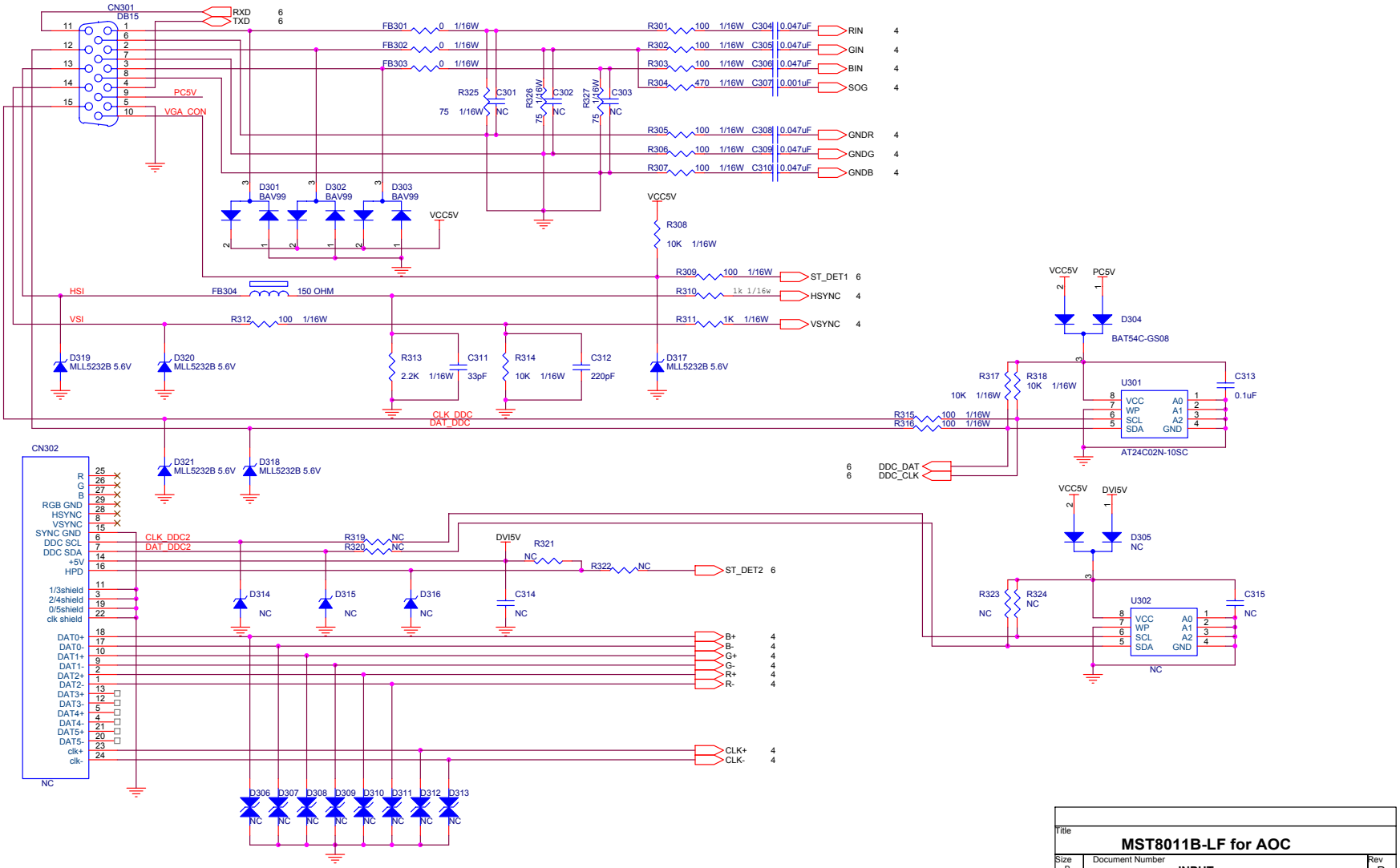
Title	MST8011B-LF for AOC	
Size B	Document Number TOP	Rev B
Date: Thursday, July 17, 2003	Sheet 1 of 6	

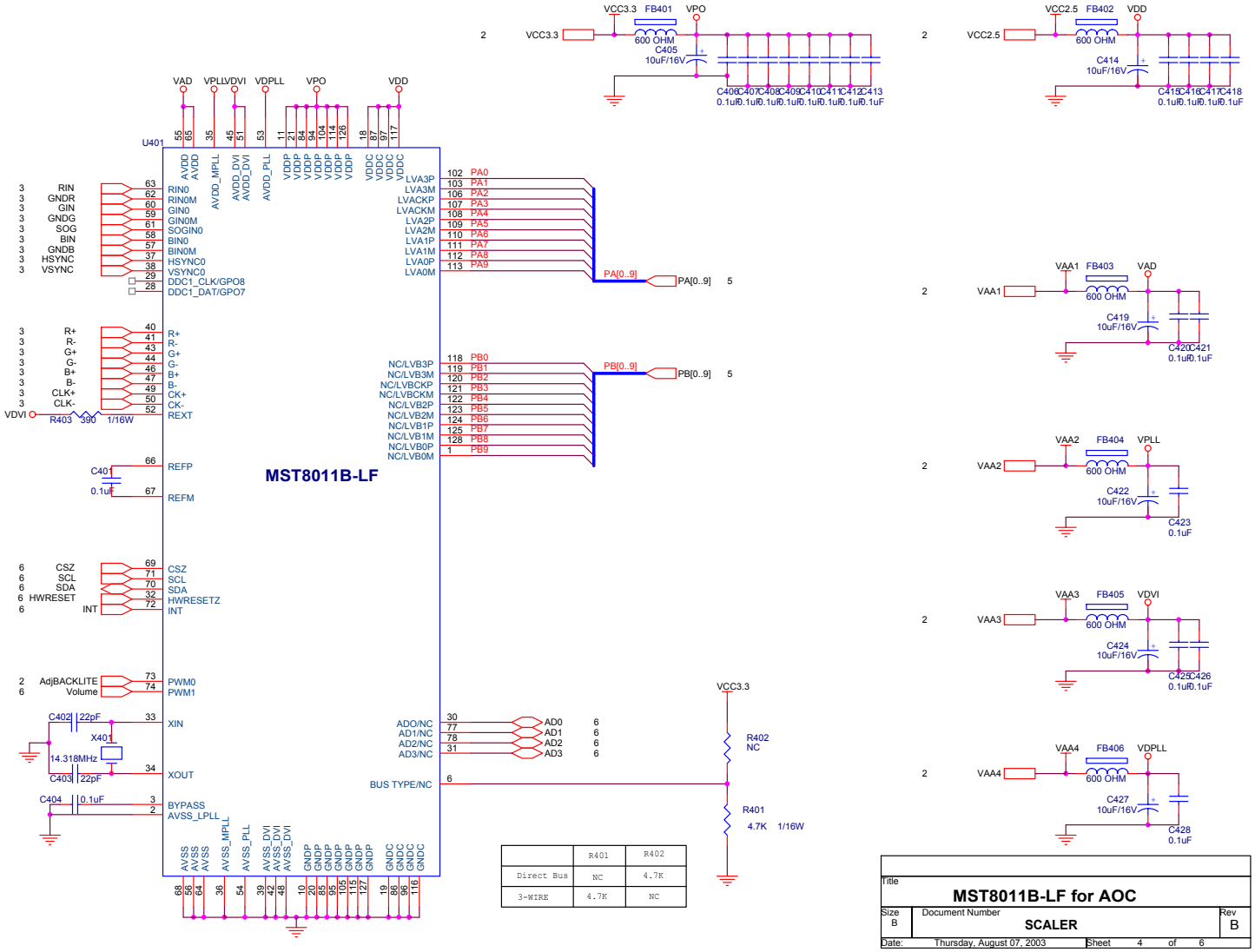






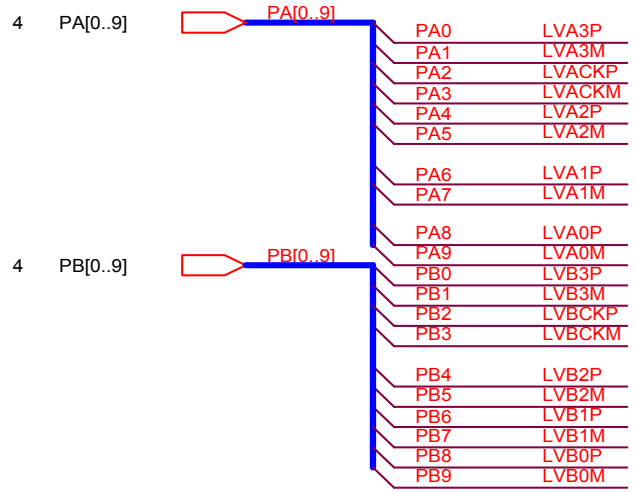
Title: **MST8011B-LF for AOC**		
Size: B	Document Number: **POWER**	Rev: B
Date: Thursday, November 06, 2003	Sheet 2 of 6	

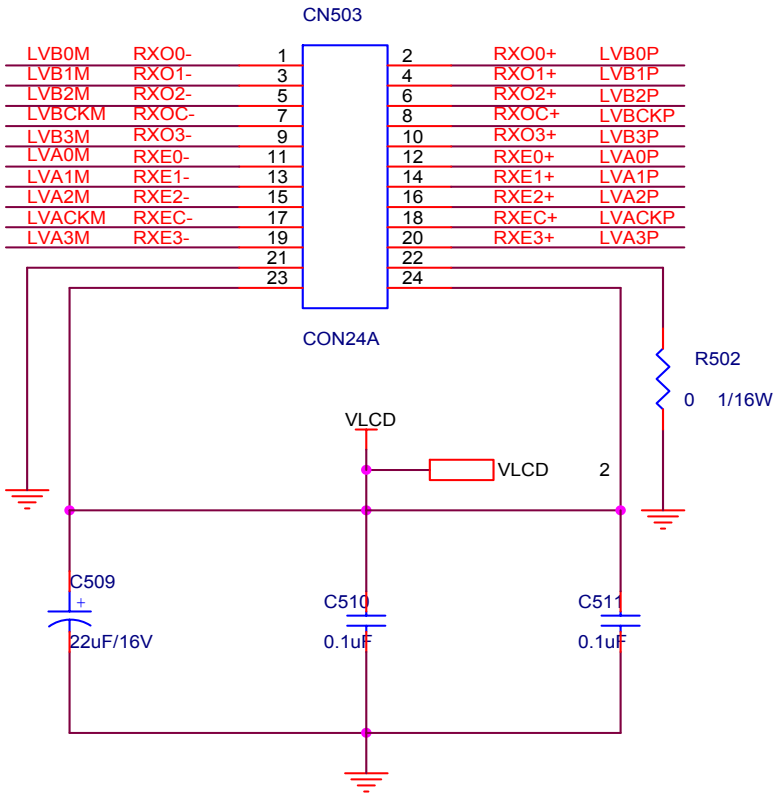

CN301
DB15
RXD
TXD
PC5V
VGA_CON
FB301 0 1/16W
FB302 0 1/16W
FB303 0 1/16W
R301 100 1/16W C304 0.047uF
R302 100 1/16W C305 0.047uF
R303 100 1/16W C306 0.047uF
R304 470 1/16W C307 0.001uF
RIN
GIN
BIN
SOG
R325 75 1/16W C301 NC
R326 75 1/16W C302 NC
R327 75 1/16W C303 NC
R305 100 1/16W C308 0.047uF
R306 100 1/16W C309 0.047uF
R307 100 1/16W C310 0.047uF
GNDR
GNDG
GNDB
D301 BAV99
D302 BAV99
D303 BAV99
VCC5V
R308 10K 1/16W
R309 100 1/16W
ST_DET1
HSI
FB304 150 OHM
R310 1k 1/16w
HSYNC
VSI
R312 100 1/16W
R311 1K 1/16W
VSYNC
D319 MLL5232B 5.6V
D320 MLL5232B 5.6V
R313 2.2K 1/16W C311 33pF
R314 10K 1/16W C312 220pF
D317 MLL5232B 5.6V
CLK_DDC
DAT_DDC
R315 100 1/16W
R316 100 1/16W
DDC_DAT
DDC_CLK
D304 BAT54C-GS08
R317 10K 1/16W
R318 10K 1/16W
U301
VCC
WP
SCL
SDA
A0
A1
A2
GND
C313 0.1uF
AT24C02N-10SC
CN302
R
G
B
RGB GND
HSYNC
VSYNC
SYNC GND
DDC SCL
DDC SDA
+5V
HPD
1/3shield
2/4shield
0/5shield
clk shield
DAT0+
DAT0-
DAT1+
DAT1-
DAT2+
DAT2-
DAT3+
DAT3-
DAT4+
DAT4-
DAT5+
DAT5-
clk+
clk-
NC
D321 MLL5232B 5.6V
D318 MLL5232B 5.6V
CLK_DDC2
DAT_DDC2
R319 NC
R320 NC
DVI5V
R321 NC
R322 NC
ST_DET2
D314 NC
D315 NC
D316 NC
C314 NC
B+
B-
G+
G-
R+
R-
CLK+
CLK-
D306 NC
D307 NC
D308 NC
D309 NC
D310 NC
D311 NC
D312 NC
D313 NC
D305 NC
R323 NC
R324 NC
C315 NC
U302
C313 0.1uF
Title
MST8011B-LF for AOC
Size B
Document Number
INPUT
Rev B
Date: Thursday, June 24, 2004
Sheet 3 of 6



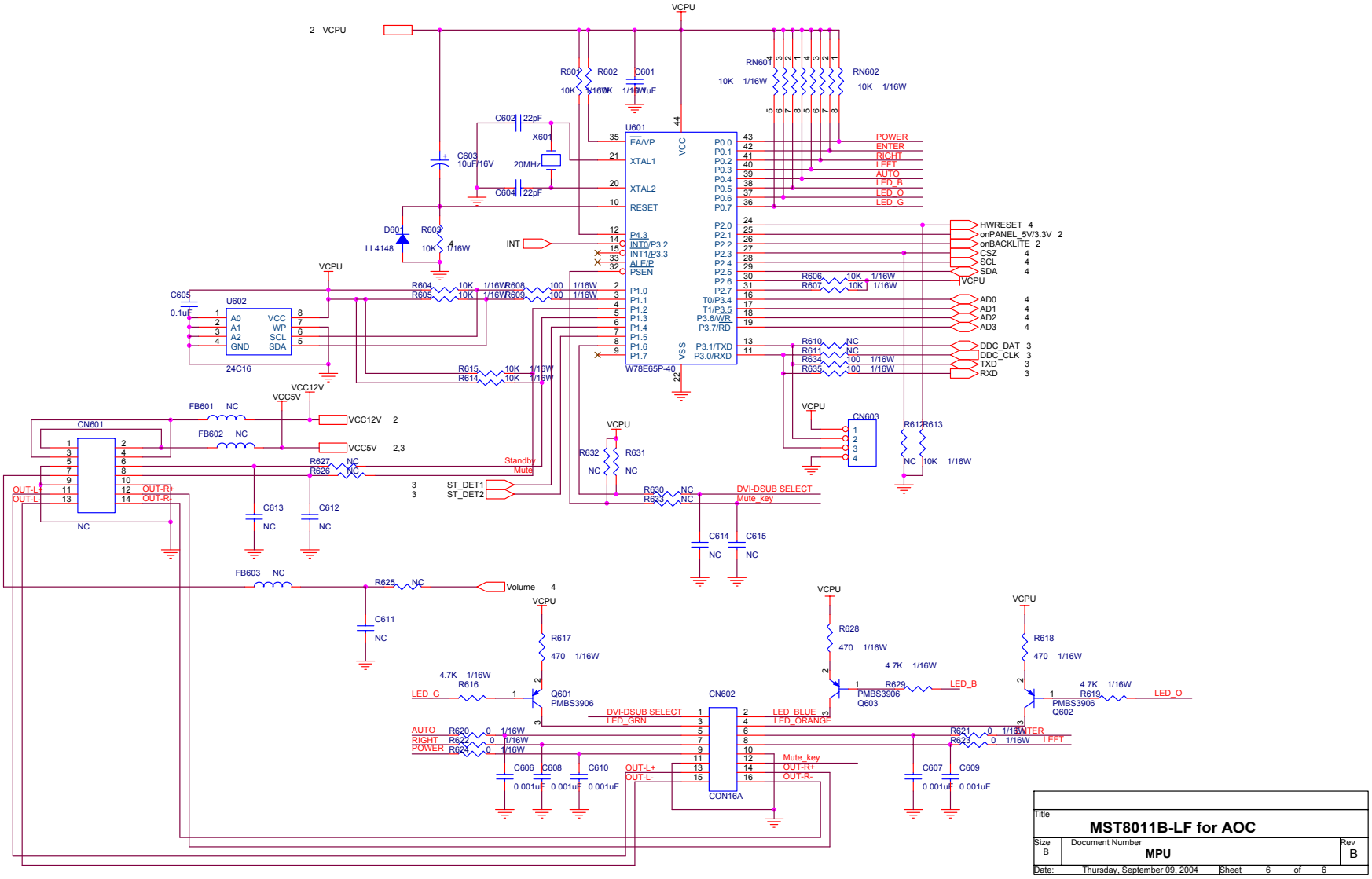
	R401	R402
Direct Bus	NC	4.7K
3-WIRE	4.7K	NC

Title	MST8011B-LF for AOC	
Size B	Document Number SCALER	Rev B
Date: Thursday, August 07, 2003	Sheet 4 of 6	



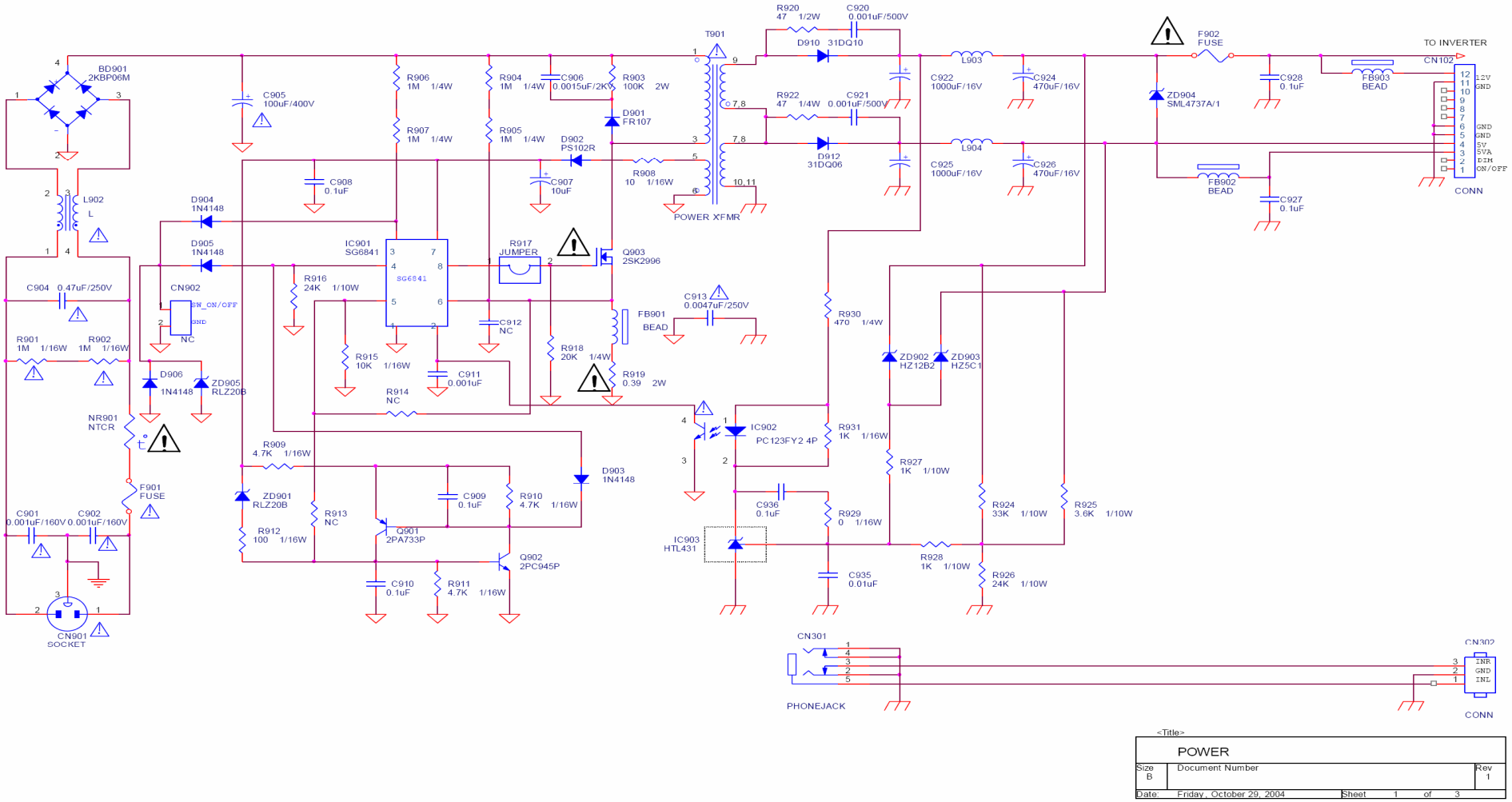


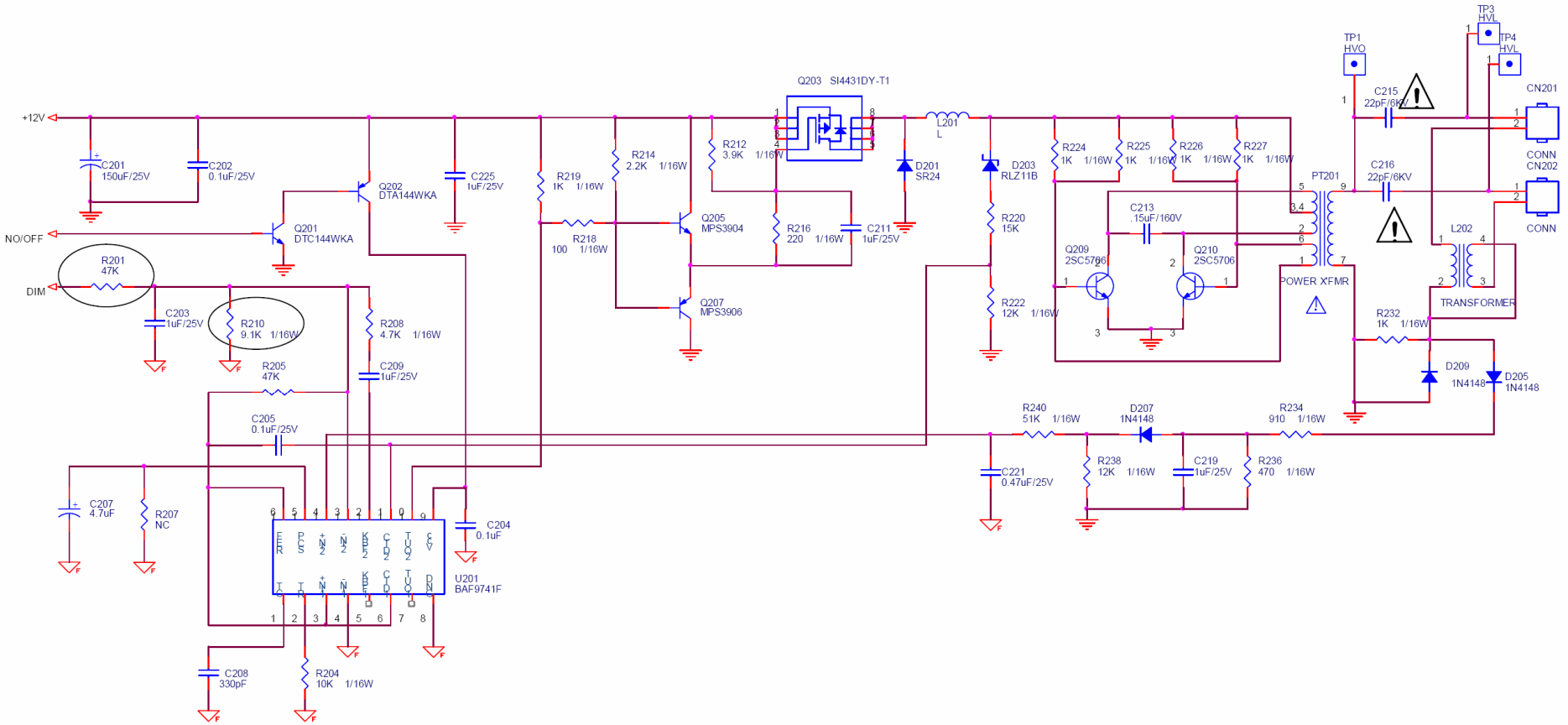
Title	**MST8011B-LF for AOC**	
Size A	Document Number **PANEL INTERFACE**	Rev B
Date: Tuesday, July 22, 2003	Sheet 5 of 6	


VCPU
U601
W78E65P-40
U602
24C16
CN601
CN602
CON16A
CN603
Q601 PMBS3906
Q602 PMBS3906
Q603 PMBS3906
POWER
ENTER
RIGHT
LEFT
AUTO
LED_B
LED_O
LED_G
HWRESET 4
onPANEL_5V/3.3V 2
onBACKLITE 2
CSZ 4
SCL 4
SDA 4
AD0 4
AD1 4
AD2 4
AD3 4
DDC_DAT 3
DDC_CLK 3
TXD 3
RXD 3
Standby
Mute
ST_DET1
ST_DET2
DVI-DSUB SELECT
Mute_key
Volume 4
LED_GRN
LED_ORANGE
LED_BLUE
OUT-L+
OUT-L-
OUT-R+
OUT-R-
VCC12V 2
VCC5V 2,3
Title
MST8011B-LF for AOC
Size B
Document Number
MPU
Rev B
Date: Thursday, September 09, 2004
Sheet 6 of 6

6.2 Power/Inverter Board

715L1034 1 A 1



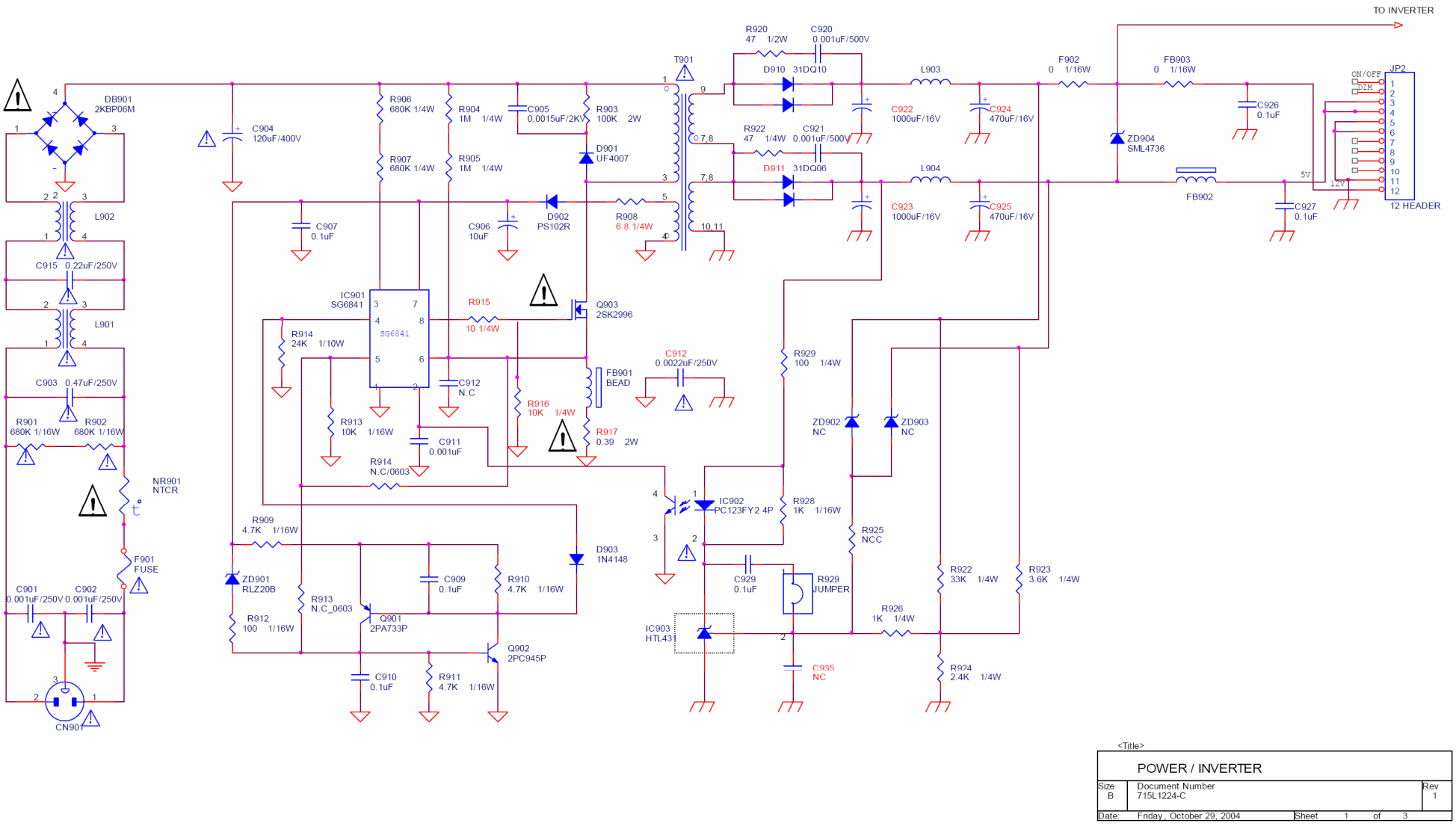


AOC (Top Victory) Electronics Co., Ltd.		
Title: FOR NEC INVERTER		
Size: B	Document Number	Rev: A
Date: Friday, October 29, 2004	Sheet 2 of 2	

is power GND

is signal GND

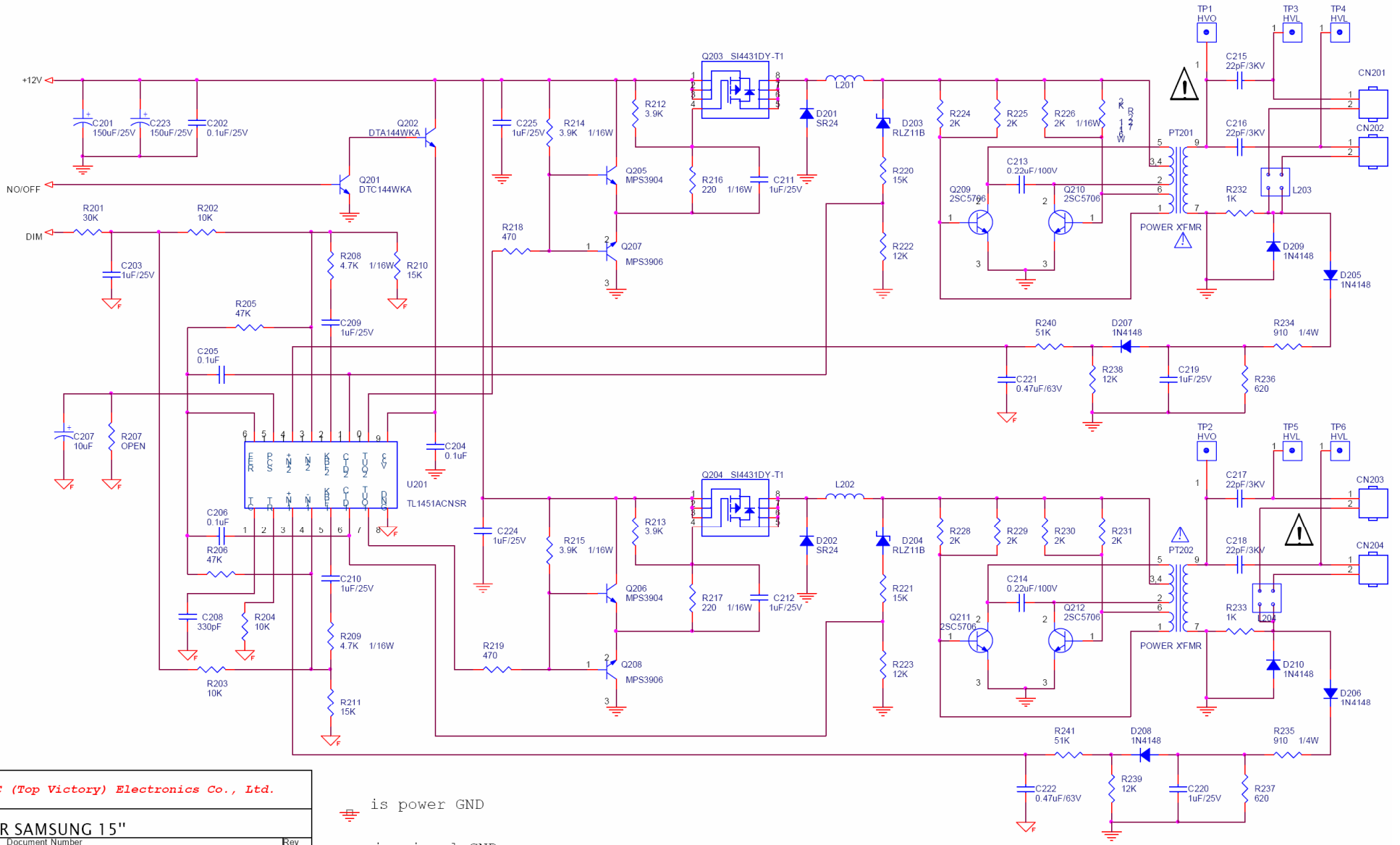
715L1224 3



<Title>

POWER / INVERTER

Size	Document Number	Rev
B	715L1224-C	1
Date: Friday, October 29, 2004	Sheet 1 of 3	



AOC (Top Victory) Electronics Co., Ltd.		
Title: FOR SAMSUNG 15"		
Size: B	Document Number	Rev: A
Date: Friday, October 29, 2004	Sheet 2 of 2	

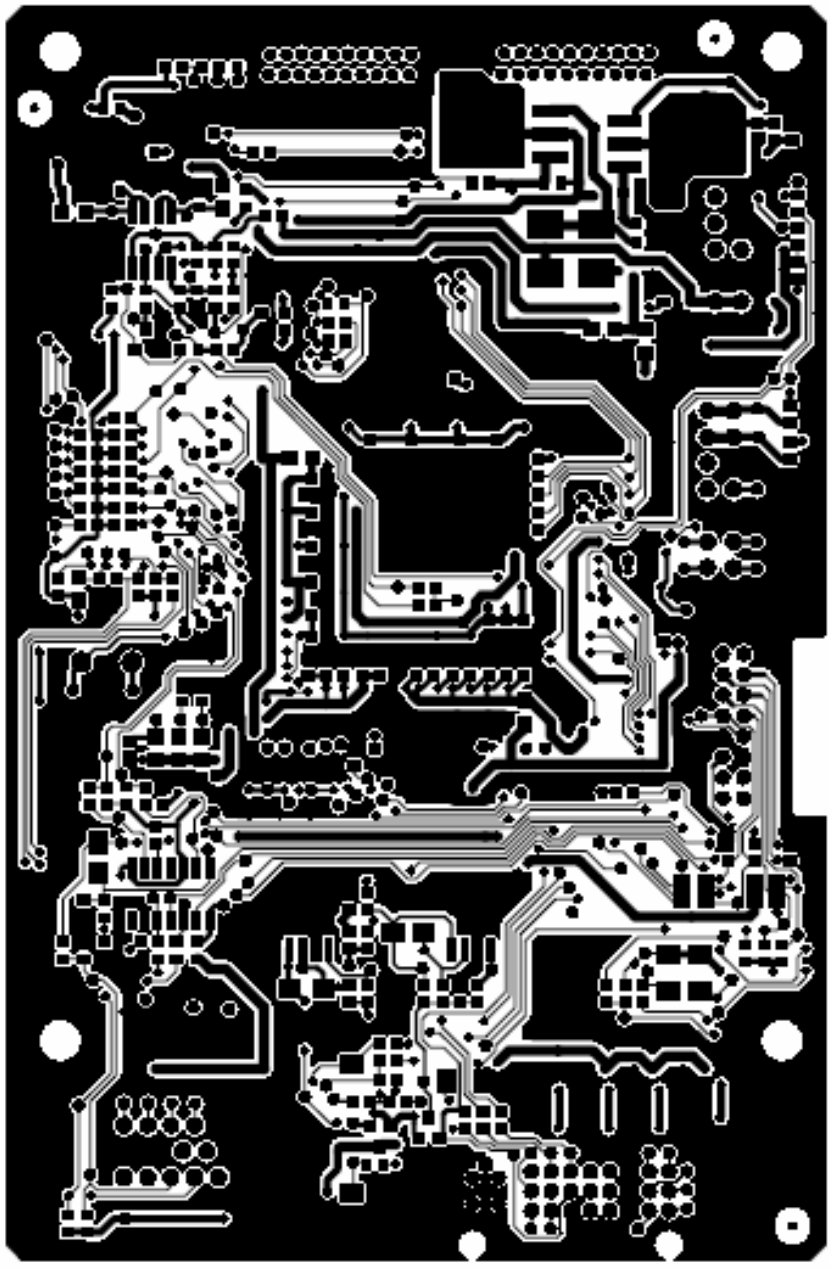
is power GND

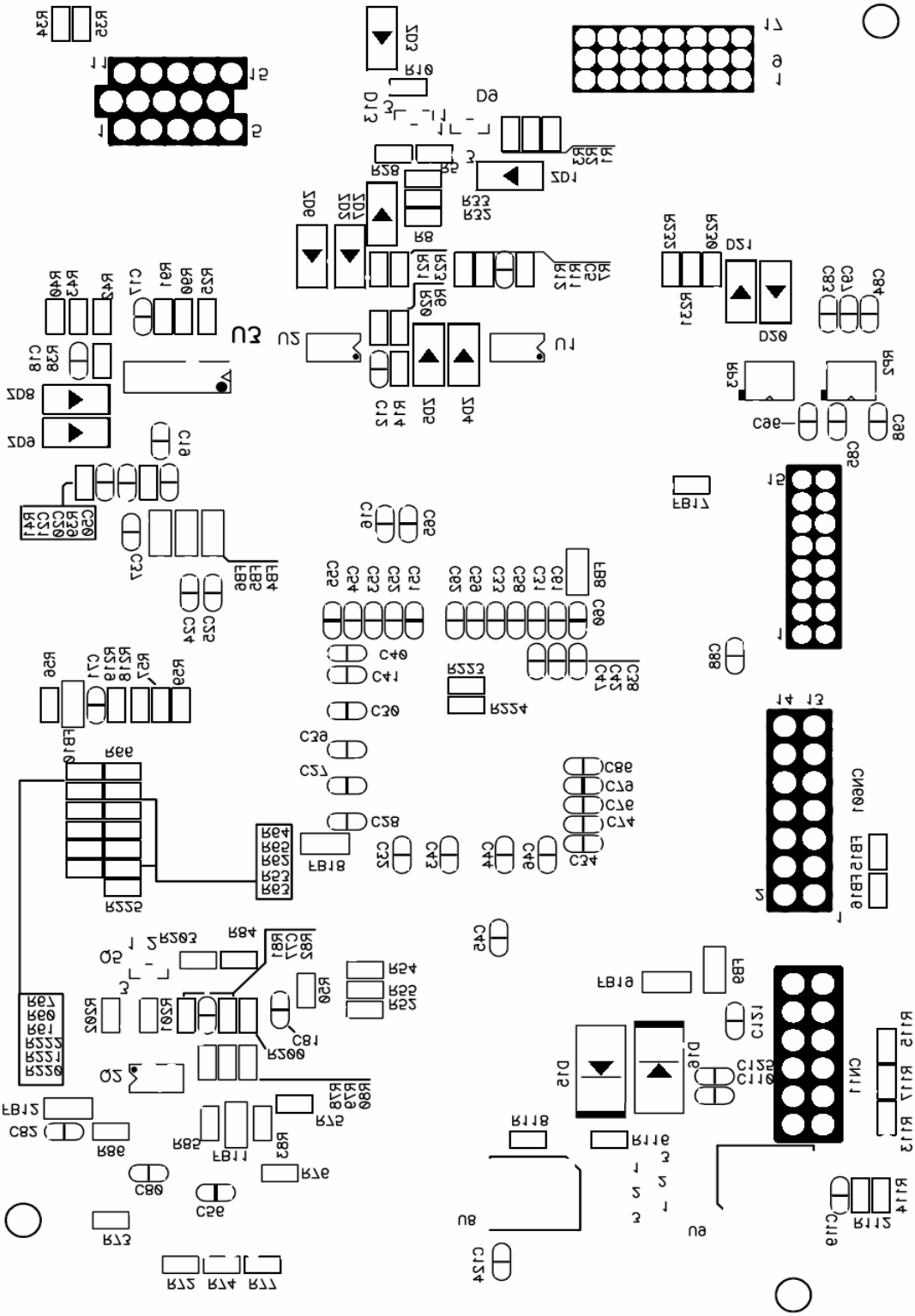
is signal GND

7. PCB Layout

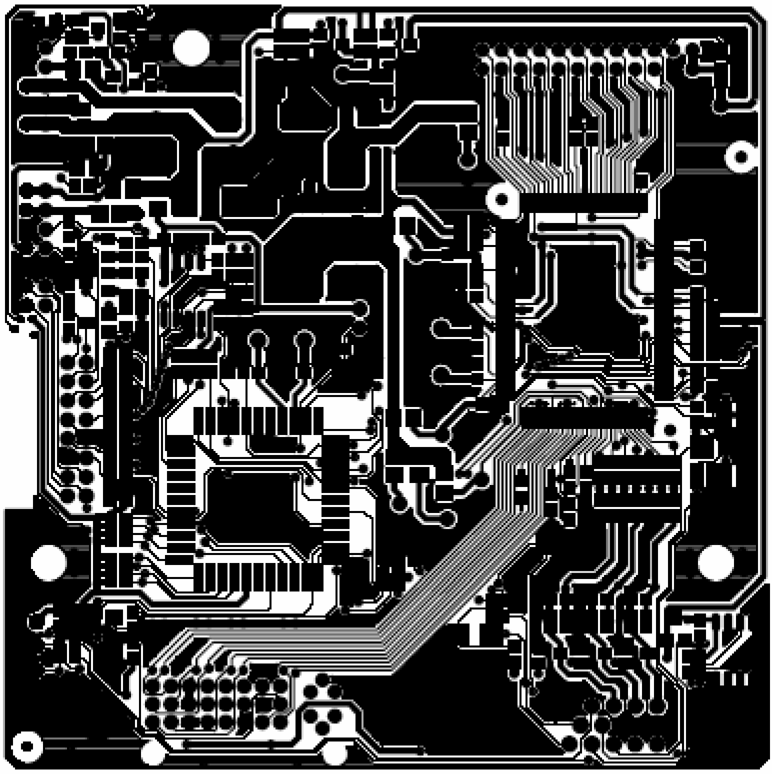
7.1 Main Board

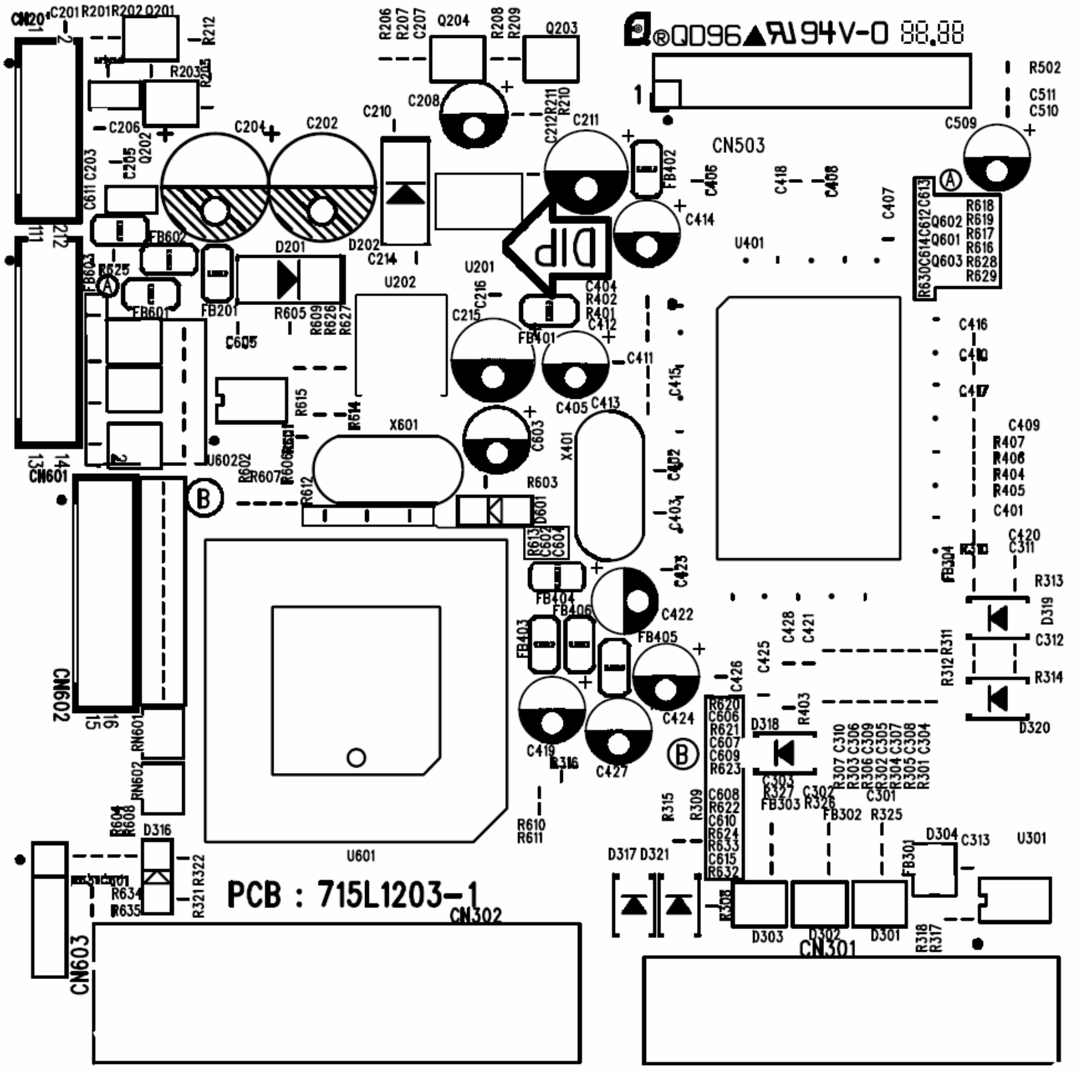
715L1100 1





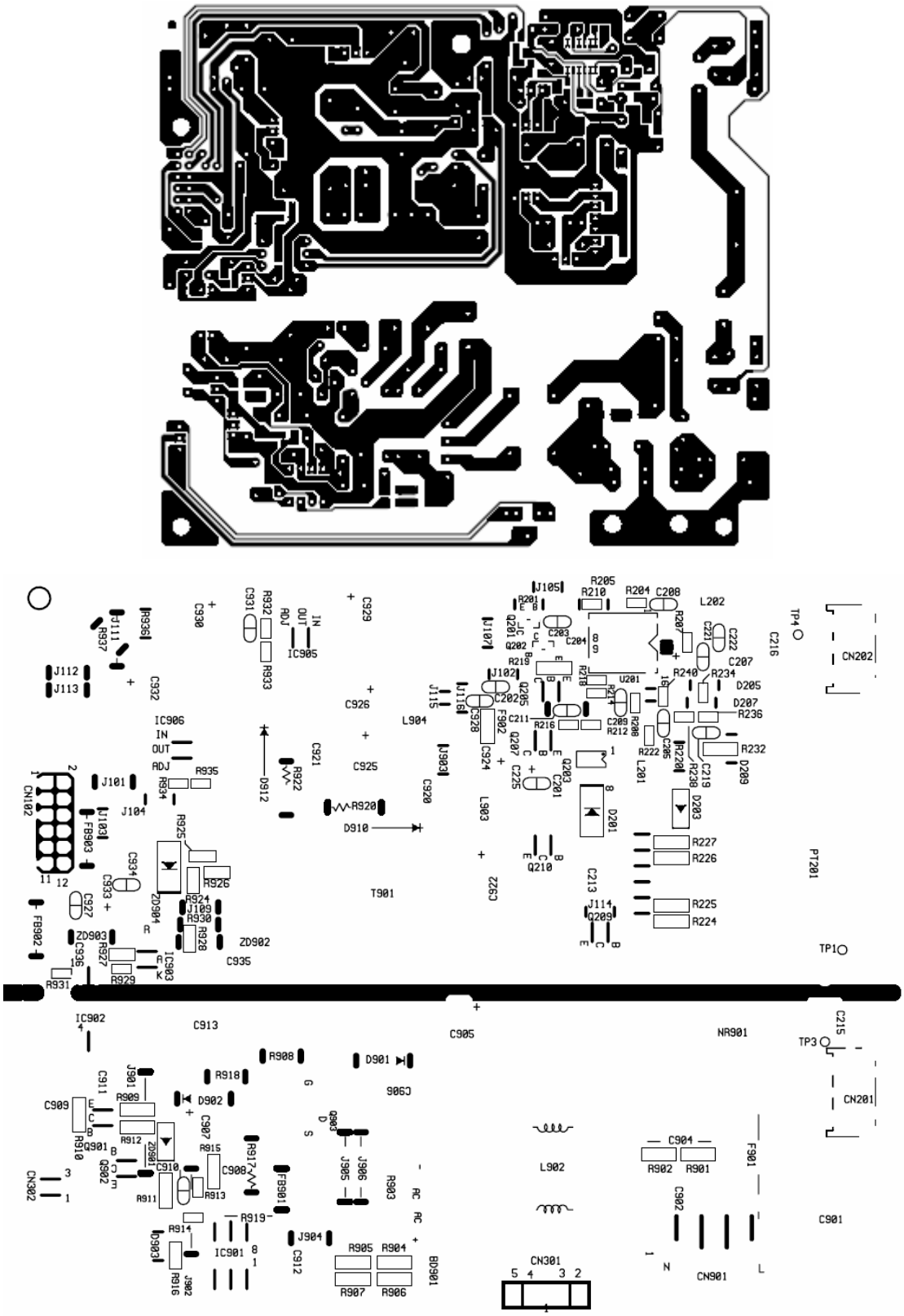
715L1203 1



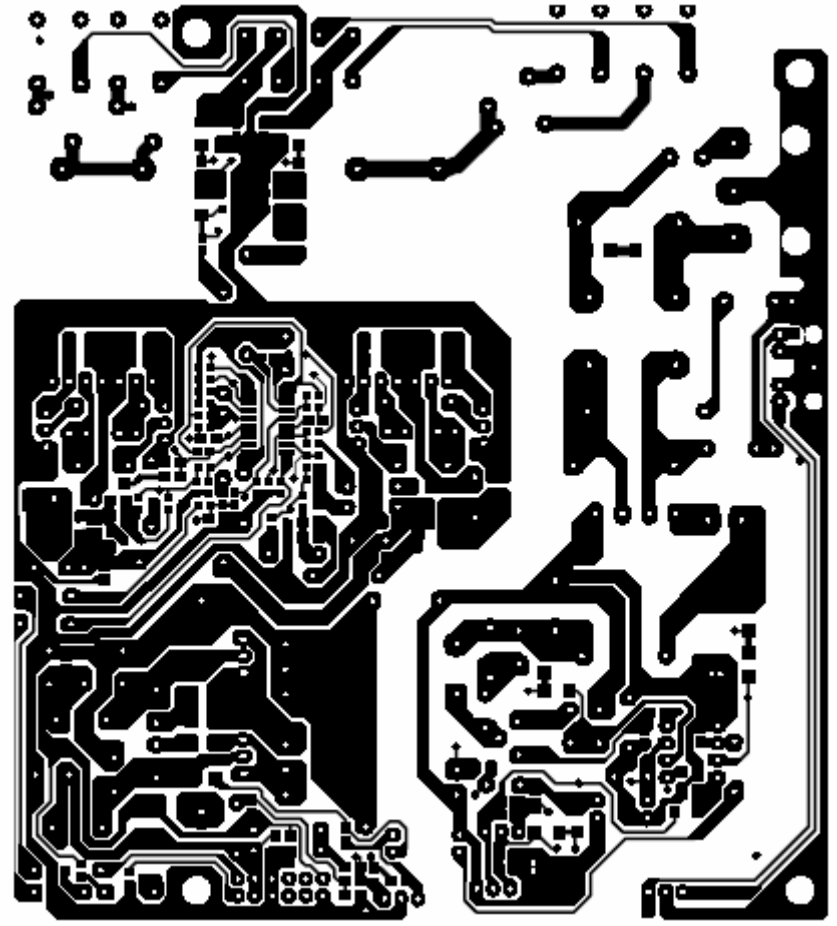

PCB : 715L1203-1
CN201
CN601
CN602
CN603
CN302
CN301
CN503
U201
U202
U401
U601
U301
X601
X401
D201
D202
D316
D317 D321
D318
D319
D320
D301
D302
D303
D304
FB201
FB401
FB402
FB403
FB404
FB405
FB406
FB601
FB602
FB603
C201 R201 R202 Q201
Q202
Q203
Q204
Q601
Q602
Q603
C202
C204
C208
C209
C210
C211
C214
C215
C216
C401
C404
C405
C409
C411
C412
C413
C414
C416
C417
C419
C420
C422
C424
C425
C426
C427
C428
C509
C510
C511
C603
C605
R502
R603
R605
R610
R611
RN601
RN602
DIP
QD96 94V-0

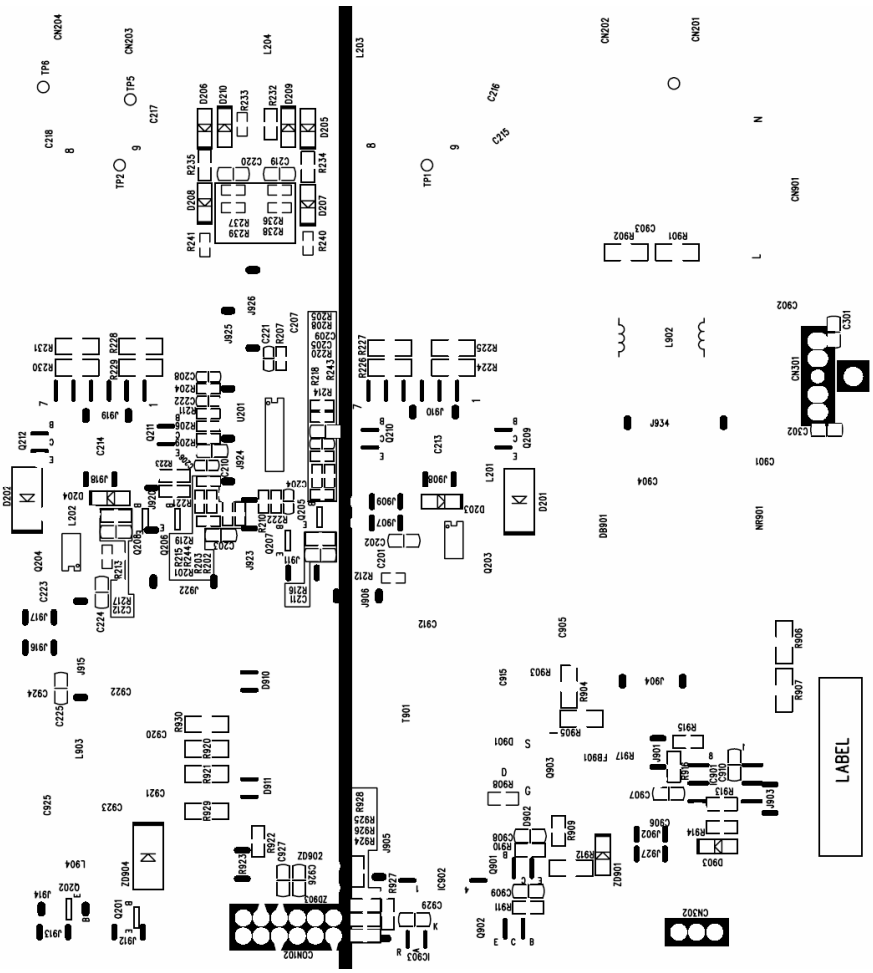
7.2 Power Board

715L1034 1A 1



715L1224 3





8. Maintainability

8.1 Requirement And Tools Requirement

1.Voltmeter.

2.Oscilloscope.

3.Pattern Generator.

4.LCD Color Analyzer.

5.Service Manual.

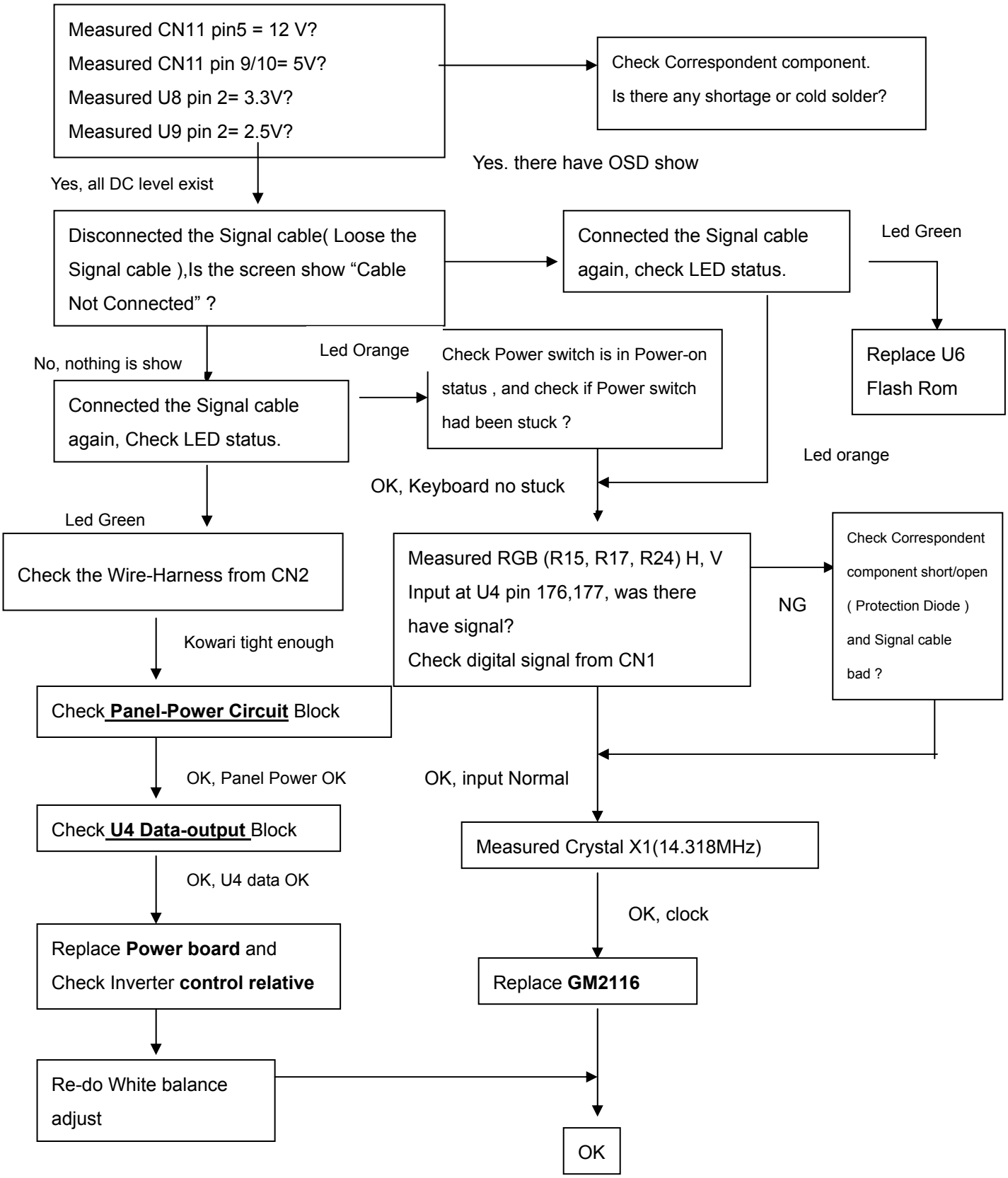
6.User Manual.

8.2 Troubleshooting

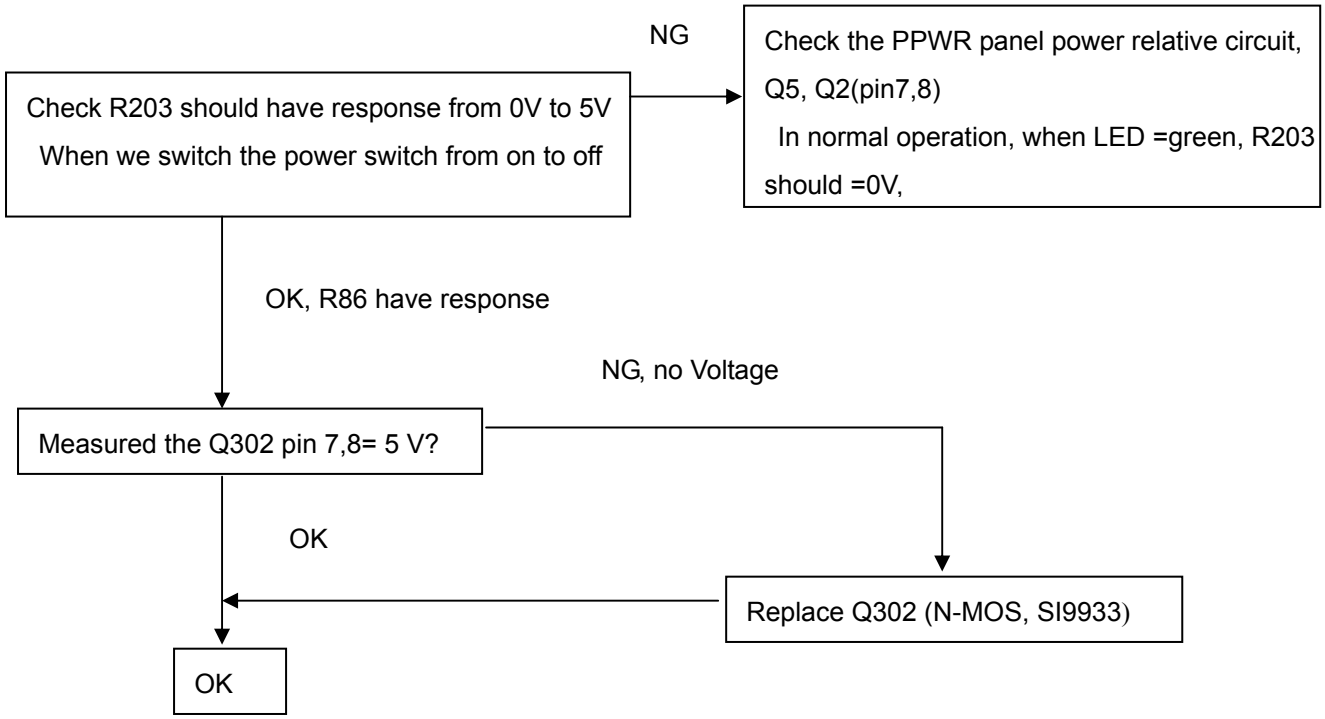
8.2.1 Main Board

715L1100 1

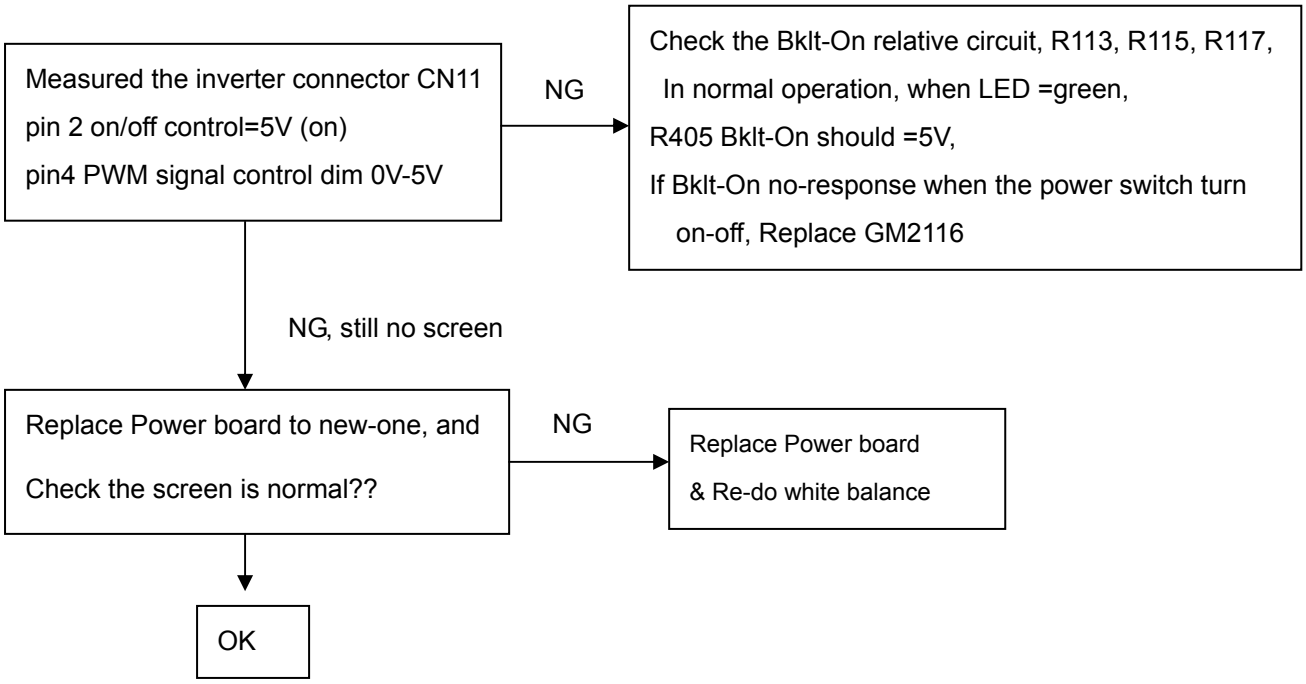
1) No Screen Appear



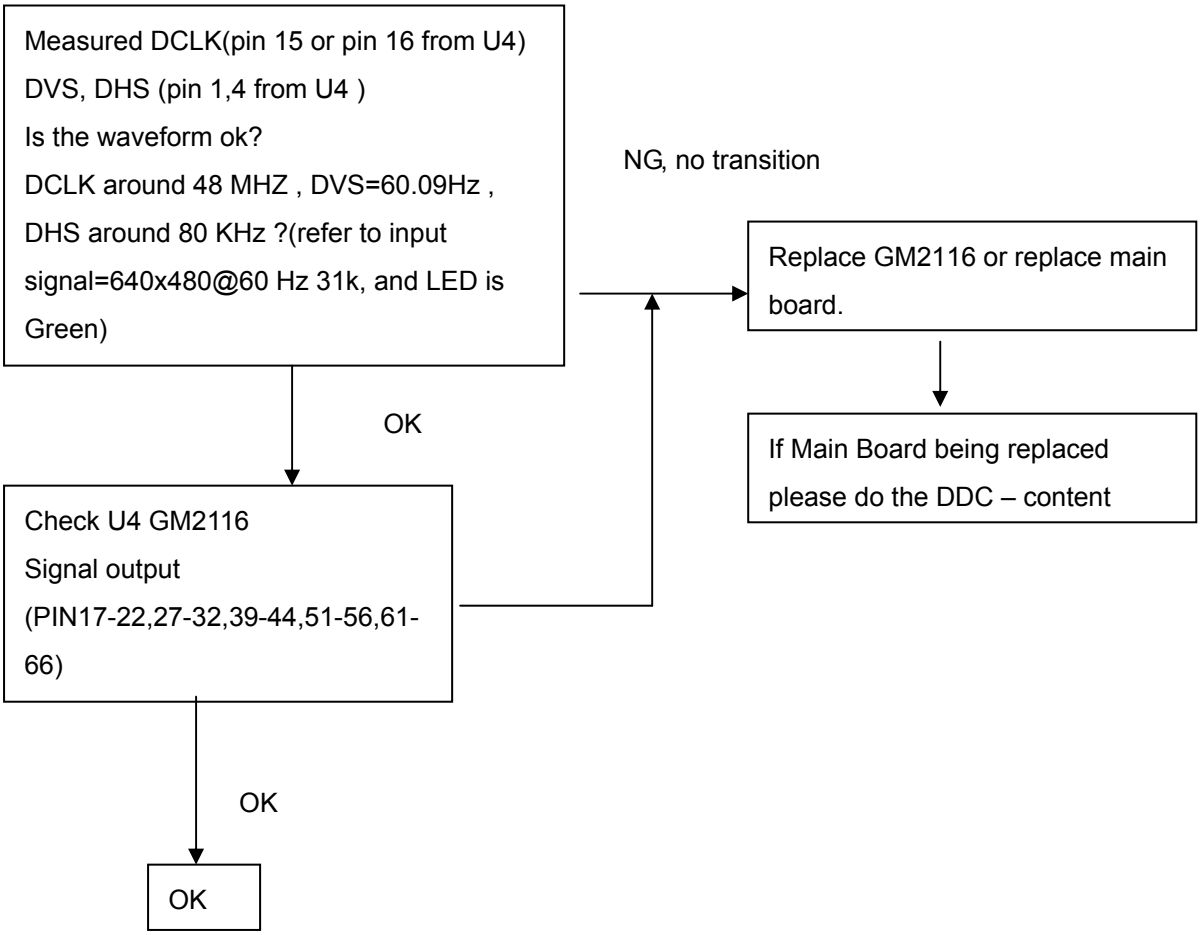
2) Panel-Power Circuit



3) Inverter Control Relative Circuit

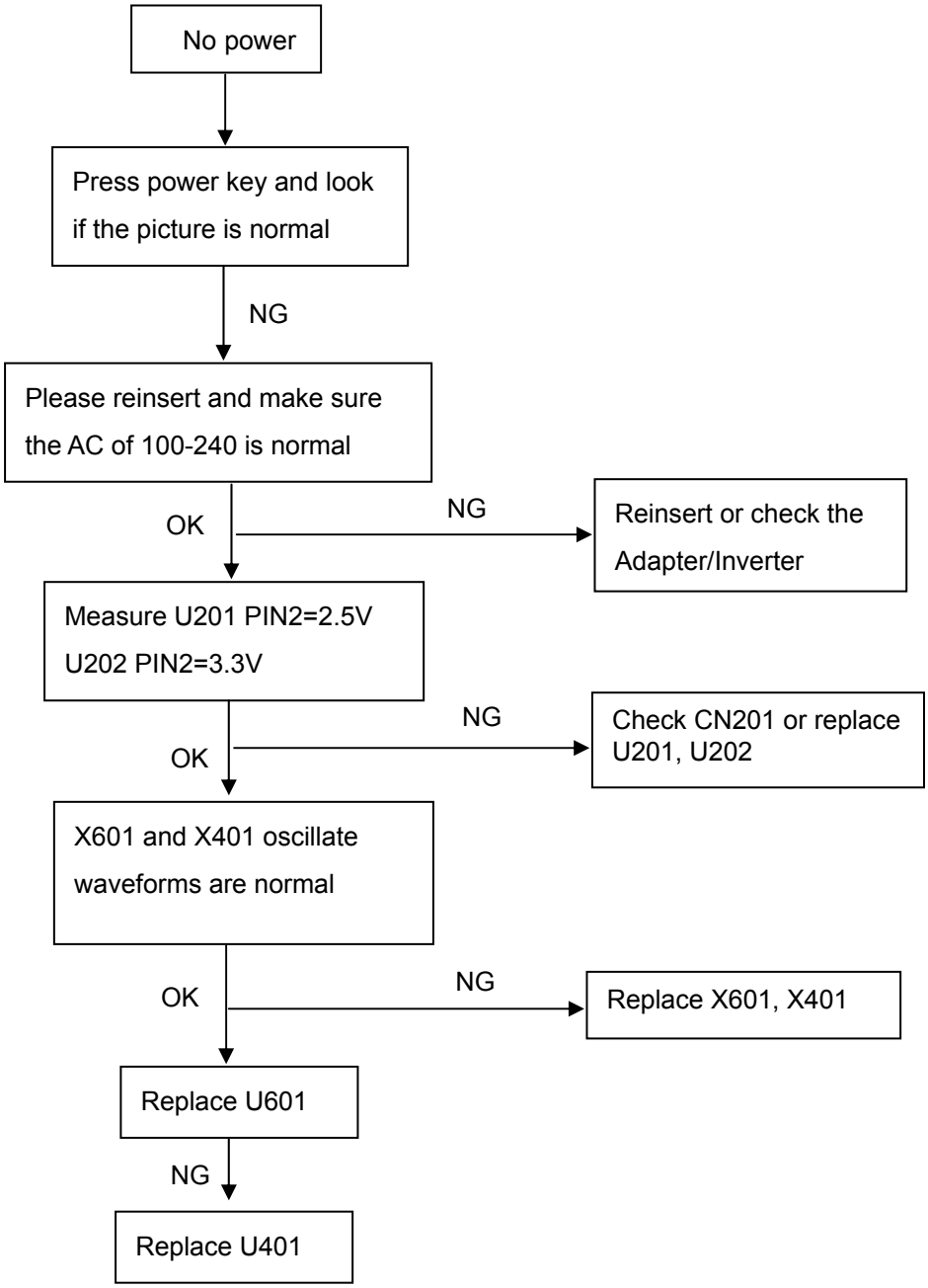


4. U4-DATA Output

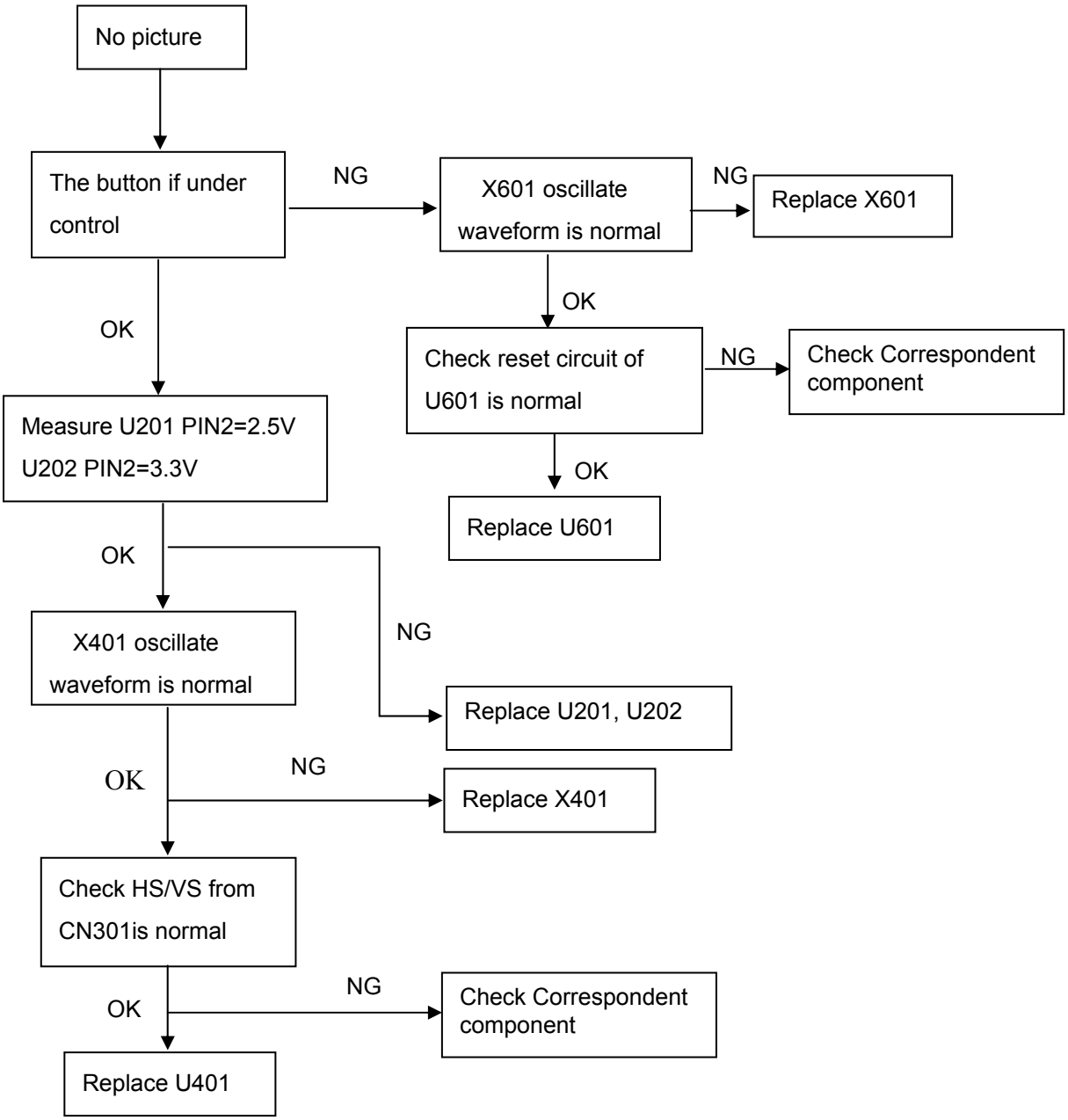


715L1203 1

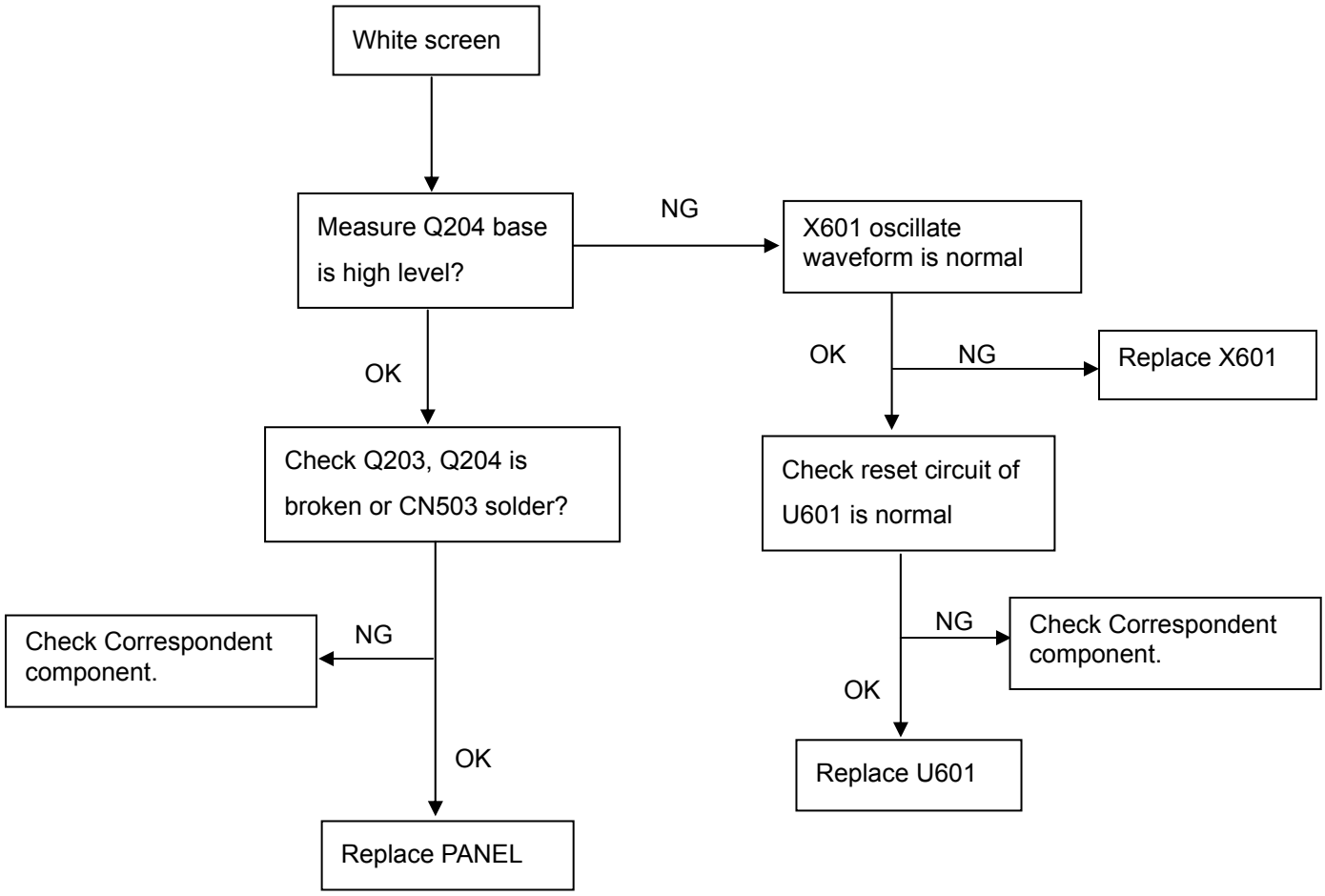
No Power



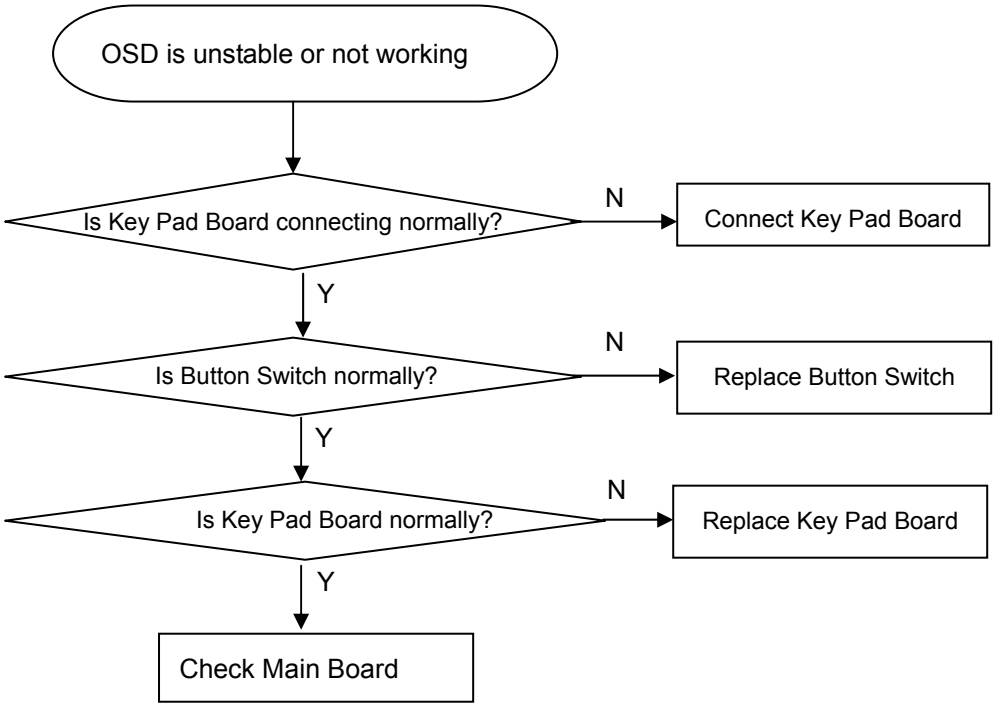
No Picture (LED orange)



White Screen



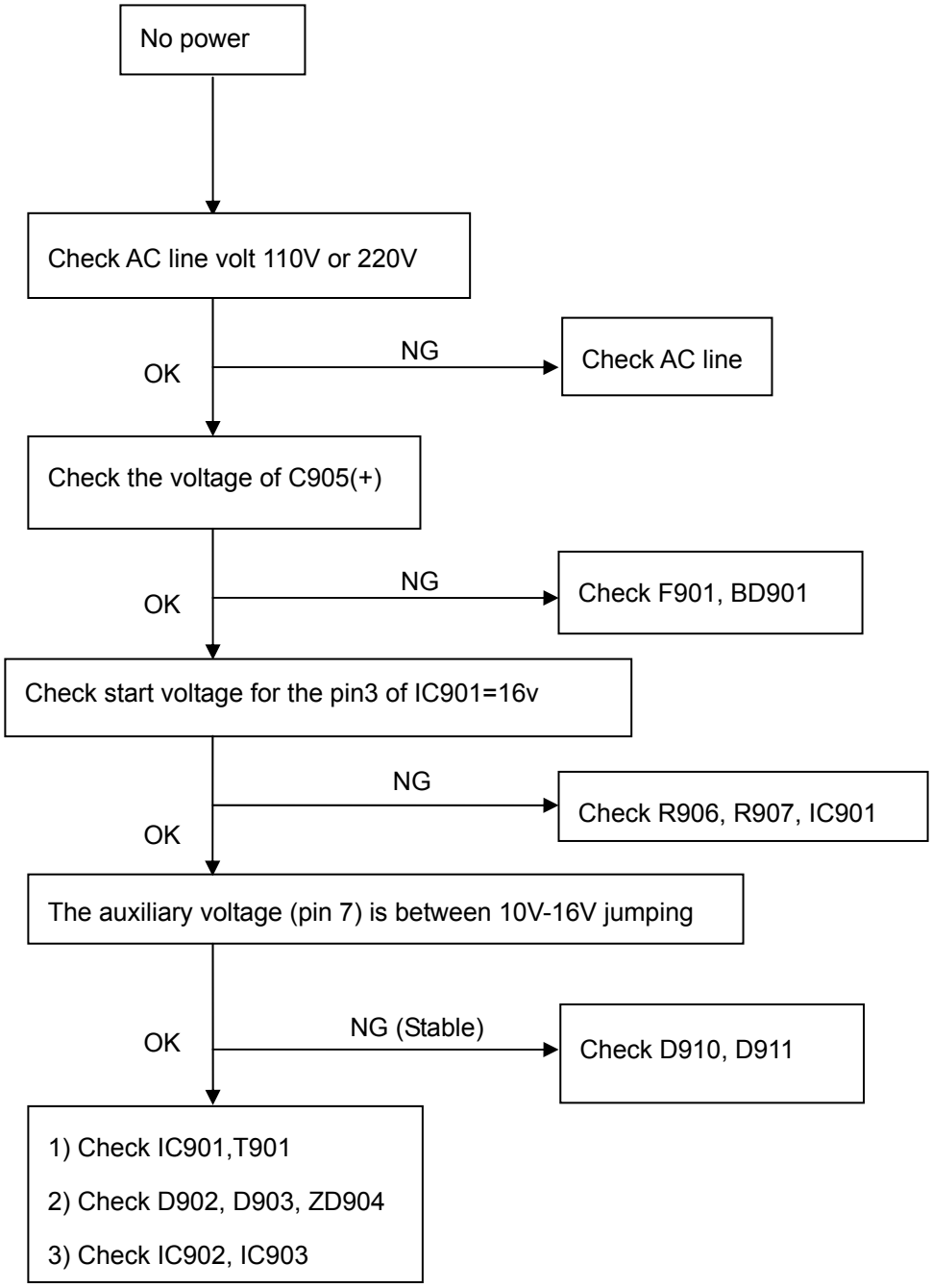
8.2.2 Keypad Board



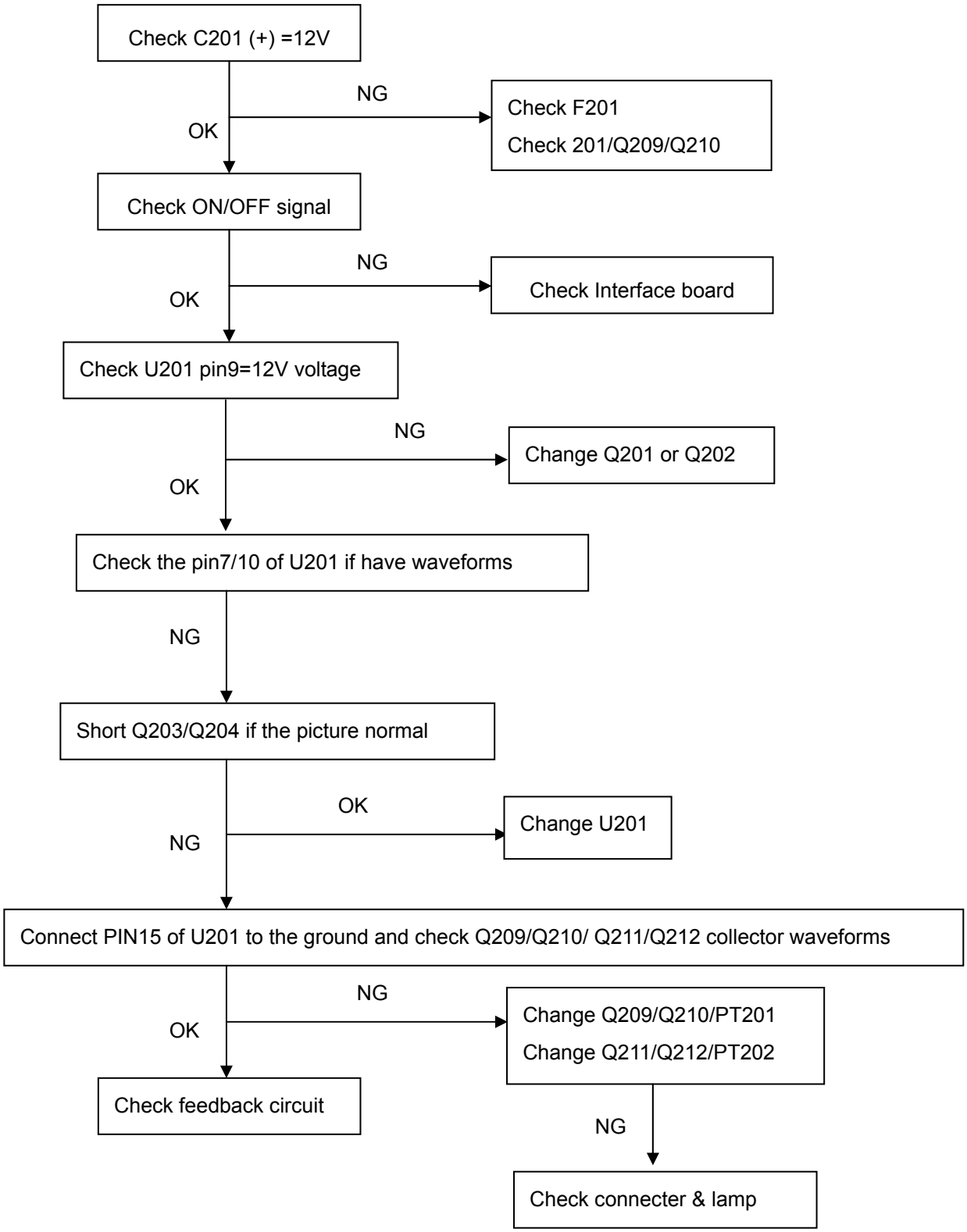
8.2.3 Power/Inverter Board

715L1034 1 A 1

1.) No power

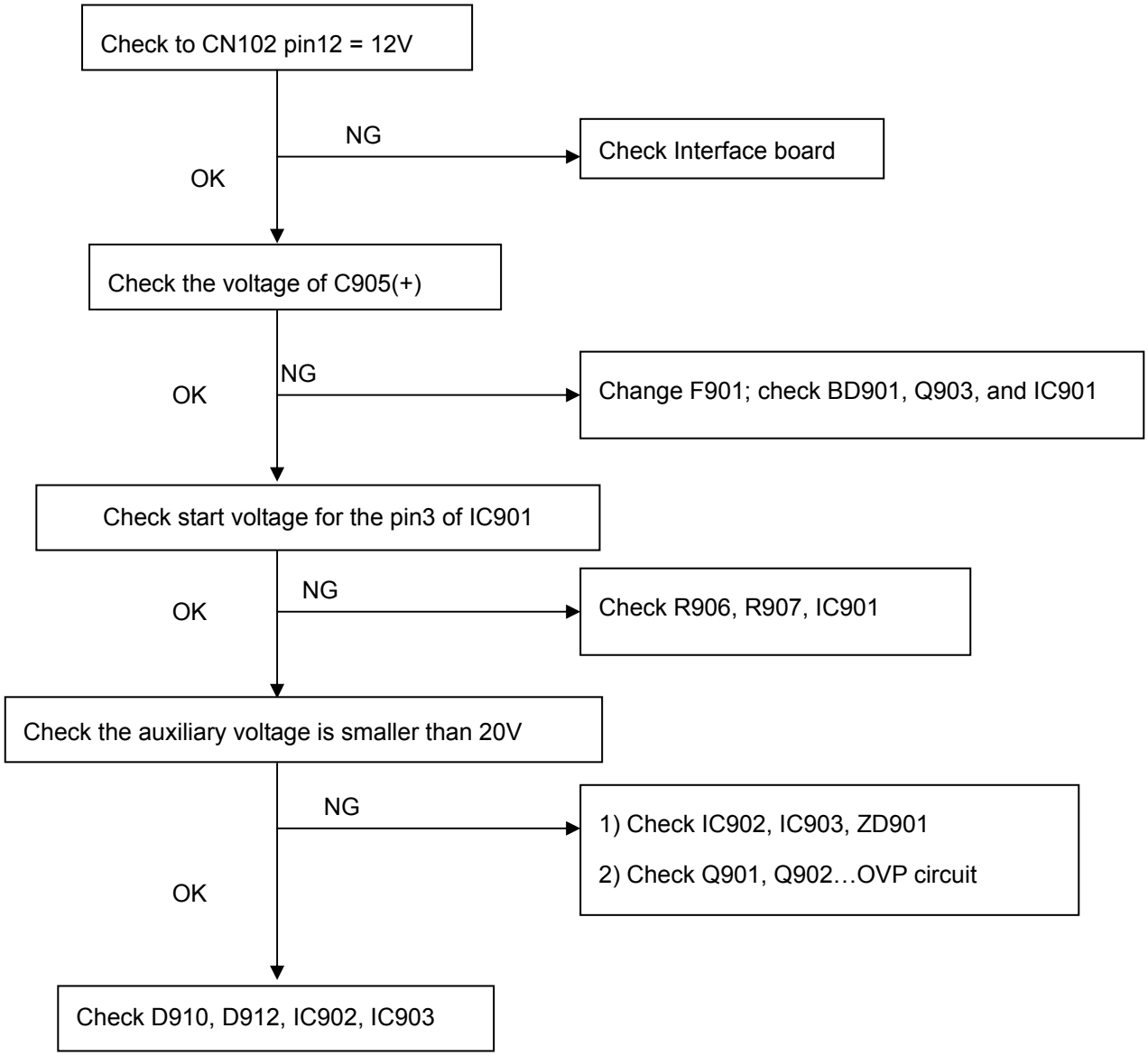


2.) W / LED, No Backlight

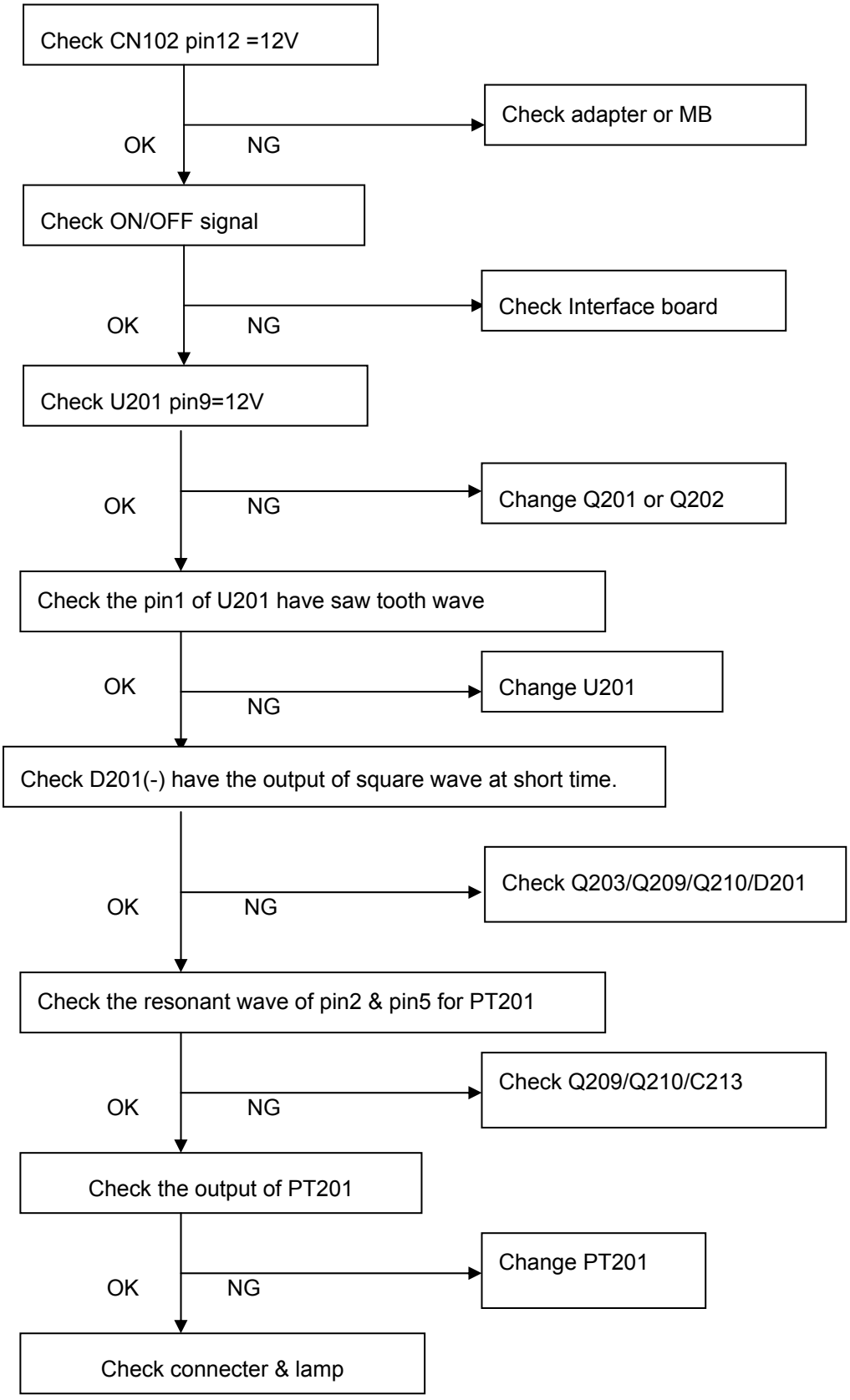


715L1224 3

1.) No power



2.) W / LED, No Backlight



9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

   A. Reference to chroma 7120 user guide

   B. 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 (7800 color):

   7800 color temp. parameter is x = 296 ±10, y = 311 ±10, Y = 180 ±20 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500 color):

   6500 color temp. parameter is x = 313±10, y = 329 ±10, Y = 180 ±20 cd/m^2.

3. Enter into factory mode:

   Press MENU key (hold on, do not release) and re-plug power cable, in this way MCU will do AUTO LEVEL automatically. Meanwhile press MENU the OSD screen will locate at LEFT TOP OF PANEL.

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 C2 (7800) 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 = 296 ±10, y = 311 ±10, Y = 180 ±10 cd/m^2
   4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
   6. Adjust the BLUE of color1 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 C1 (6500) 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 = 313 ±10, y = 329 ±10, Y = 180 ±10 cd/m^2
   4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
   6. Adjust the BLUE of color3 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. Press reset key and Turn the Power-button "off to on" to quit from factory mode.

10. BOM List

T562KCDHBEAHA

Location	Part No. for TPV model	Description	Quantity	Unit
	M1G 330 4128	SCREW M3X4	4	PCS
	AUPC562A1	AUDIO BOARD FOR T562S	1	PCS
	CBPC560KCDA1	CONVERSION BOARD FOR T5	1	PCS
	KEPC562KD2	KEY BOARD FOR T562K*	1	PCS
	PWPC5215A1E1	POWER BOARD FOR T560K*H	1	PCS
	15G5689501 A	CLAMP	1	PCS
	15G5908 2	BRACKET	1	PCS
	15G5924500	MAIN FRAME	1	PCS
	26G 800504 6	BARCODE	1	PCS
	33G4362 1	LENS	1	PCS
	33G4447 Y 2L	KEY PAD	1	PCS
	34G 973 5Y 2B	FRONT PANEL	1	PCS
	40G 15062420B	ID LABEL	1	PCS
	40G 58162435A	LABEL	1	PCS
	41G150062419B	MANUAL	1	PCS
	44G3231 14	EVA WASHER	1	PCS
	44G3231 15528	EVA WASHER	1	PCS
	44G3515600 4A	CARTON	1	PCS
	44G3524 1	EPS(L)	1	PCS
	44G3524 2	EPS(R)	1	PCS
	45G 76 28 RN	PE BAG FO MANUAL/BASE	2	PCS
	45G 88607	PE BAG FOR MONITOR	1	PCS
	50G 600 2	HANDLE1	1	PCS
	50G 600 3	HANDLE2	1	PCS
	52G 1185	MIDDLE TAPE FOR CARTON	2	CM
	52G 1186	SMALL TAPE	8	CM
	52G 1205 A	ALUMINIUM TAPE	1	PCS
	52G6025 11523	INSULATE SHEET	1	PCS
	78G 314 1	SPEAKER 80HM 1W	1	PCS
	85G 634 11	SHIELD	1	PCS
	89G 173 56 4B	AUDIO CABLE	1	PCS
	89G1735GAA D1	SIGNAL CABLE	1	PCS
	95G8020 5507	WIRE HARNESS	1	PCS
	95G8021 12 1	HARNESS 12P 60mm	1	PCS
	M1G 330 4128	SCREW M3X4	1	PCS
	M1G 330 6128	SCREW	1	PCS

	M1G1130 6128	SCREW	8	PCS
	M1G1140 6128	SCREW 4X6	1	PCS
	Q1G 330 8120	SCREW 3X8mm	4	PCS
E089A	89G410A18N IS	POWER CORD WALL-OUT FOR	1	PCS
E089F	89L 176 50 4	FPC	1	PCS
E750L	750LLC50G08 2	CPT 15" G08(CF)	1	PCS
	AUPC562A1SMT	LCD AUDIO BOARD FOR T56	1	PCS
C1	67G 309471 3T	470UF +-20% 16V	1	PCS
C10	67G 309471 3T	470UF +-20% 16V	1	PCS
C12	67G 309471 3T	470UF +-20% 16V	1	PCS
C2	67G 309471 3T	470UF +-20% 16V	1	PCS
C5	67G 309470 4T	47UF +-20% 25V	1	PCS
C8	67G 309471 3T	470UF +-20% 16V	1	PCS
CN1	95G8020 5 1	WIRE HARNESS	1	PCS
CN2	33G3802 4	WAFER EH-4	1	PCS
M1	88G 30211K	PHONE JACK 5PIN	1	PCS
M2	88G 30210K	PHONE JACK 5PIN	1	PCS
U1	56G 616 1	TDA7496	1	PCS
VR1	75L 35810321A	VR 10KB BLACK R103H-0BK	1	PCS
	715L 989 1	LM-520 AUDIO BRD PCB	1	PCS
C13	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C14	65G0805221 32	CHIP 220PF 50V X7R 0805	1	PCS
C15	65G0805221 32	CHIP 220PF 50V X7R 0805	1	PCS
C16	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C3	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C7	65G0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C9	65G0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
D1	93G 39S3V6 G	EMM55C3V6	1	PCS
R1	61L0805000	CHIP O OHM 1/8W	1	PCS
R10	61L0805562	CHIP 5.6K OHM 1/8W	1	PCS
R11	61L0805562	CHIP 5.6K OHM 1/8W	1	PCS
R12	61L0805182	1.8KOHM +-5% 1/8W,0805	1	PCS
R2	61L0805750	CHIPR 75 OHM +-5% 1/8W	1	PCS
R3	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R4	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R5	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R6	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R7	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R8	61L0805750	CHIPR 75 OHM +-5% 1/8W	1	PCS

R9	61L0805224	CHIPR 220K OHM +-5% 1/8	1	PCS
	AIC560KHDA1	MAIN BOARD FOR T560K*	1	PCS
	40G 45762412B	CBPC LABEL	1	PCS
CN11	33G800912A	HEADER 2*6P	1	PCS
CN2	88G 35315FHAS	D-SUB 15PIN	1	PCS
CN601	33G8009 8A	8 PIN	1	PCS
CN9	33G8027 16	WAFER 16PIN 2.0mm DIP	1	PCS
P051	51G 6 4503	RTV	3	G
X1	93G 22 53	CRYSTAL 14.318MHzHC-49U	1	PCS
	40G 457624 1B	LABEL-CPU	1	PCS
	715L1100 1	MAIN BOARD PCB	1	PCS
C10	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS
C11	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS
C111	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C117	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C119	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C12	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C120	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C121	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C124	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C125	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C126	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C127	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C14	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS
C15	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS
C17	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C23	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C230	67G 312109 3	SMD 1.0UF+-20% 16V	1	PCS
C231	67G 312109 3	SMD 1.0UF+-20% 16V	1	PCS
C24	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C25	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C27	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C28	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C29	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C30	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C31	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C32	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C33	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C34	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS

C36	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C37	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C38	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C39	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C40	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C41	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C42	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C43	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C44	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C45	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C46	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C47	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C48	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C49	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C50	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C51	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C52	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C53	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C54	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C55	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C57	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C58	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C59	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C6	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C60	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C61	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C62	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C64	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C65	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C68	65G0603509 31	CHIP 5PF +-0.5PF 50V NP	1	PCS
C69	65G0603509 31	CHIP 5PF +-0.5PF 50V NP	1	PCS
C7	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS
C70	67G 312220 3	SMD 22UF +-20% 16V	1	PCS
C71	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C72	65G0603104 12	CER2 0603 X7R 16V 100N	1	PCS
C73	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C75	67G 312101 3	SMD 100UF +-20% 16V	1	PCS
C77	65G0603101 32	100PF +-10% 50V X7R	1	PCS
C8	65G0603103 32	0.01UF +-10% 50V X7R	1	PCS

C80	65G0603104 37	CHIP 0.1UF 50V/Y5V	1	PCS
C82	65G0603104 37	CHIP 0.1UF 50V/Y5V	1	PCS
C83	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C84	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C85	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C87	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C88	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C96	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C97	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C98	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
CN4	33G8019 50	CONNECTOR 50P	1	PCS
D10	93G 6433P	BAV99 SOT-23	1	PCS
D11	93G 6433P	BAV99 SOT-23	1	PCS
D12	93G 6433P	BAV99 SOT-23	1	PCS
D13	93G 60230	BAT54C(L43)	1	PCS
D14	93G 6432V	LL4148-GS08	1	PCS
D15	93G1004 3	SS14	1	PCS
D16	93G1020 1 S	GS1D	1	PCS
D20	61L1206000	RST SM 1206 JUMP MAX 0R	1	PCS
D21	61L1206000	RST SM 1206 JUMP MAX 0R	1	PCS
FB1	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB10	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB11	71G 56B221	CHIP BEAD 220 OHM TB201	1	PCS
FB12	71G 56B221	CHIP BEAD 220 OHM TB201	1	PCS
FB15	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB18	61L0805000	CHIP O OHM 1/8W	1	PCS
FB19	61L0805000	CHIP O OHM 1/8W	1	PCS
FB2	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB3	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB4	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB5	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB6	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB7	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB8	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB9	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
Q1	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q2	56G 566 6	SI9953DY-T1	1	PCS
Q5	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
R10	61L0603101	RST SM 0603 RC0603 100R	1	PCS

R113	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R114	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R115	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R117	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R118	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R15	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R16	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R17	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R18	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R19	61L0603470	RST SM 0603 RC0603 47R	1	PCS
R20	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R200	61L0603104	RST SM 0603 RC0603 100K	1	PCS
R201	61L0603104	RST SM 0603 RC0603 100K	1	PCS
R203	61L0603104	RST SM 0603 RC0603 100K	1	PCS
R21	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R219	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R223	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R225	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R23	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R230	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R232	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R24	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R26	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R27	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R28	61L0603470	RST SM 0603 RC0603 47R	1	PCS
R29	61L0603750 9F	75OHM 1% 1/10W	1	PCS
R30	61L0603750 9F	75OHM 1% 1/10W	1	PCS
R31	61L0603750 9F	75OHM 1% 1/10W	1	PCS
R32	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R33	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R38	61L0603750	RST SM 0603 RC22H 75R P	1	PCS
R39	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R40	61L0603750	RST SM 0603 RC22H 75R P	1	PCS
R41	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R42	61L0603202	CHIPR 2K OHM+-5% 1/10W	1	PCS
R43	61L0603202	CHIPR 2K OHM+-5% 1/10W	1	PCS
R46	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R5	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R50	71G 59G301	CHIP BEAD 300OHM	1	PCS

R51	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R52	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R53	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R54	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R55	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R56	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R57	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R59	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R6	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R64	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R65	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R66	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R69	71G 59G301	CHIP BEAD 300OHM	1	PCS
R70	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R71	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R74	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R76	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R78	71G 59G301	CHIP BEAD 300OHM	1	PCS
R8	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R80	61L0603104	RST SM 0603 RC0603 100K	1	PCS
R82	61L0603104	RST SM 0603 RC0603 100K	1	PCS
R83	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R84	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R85	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R86	61L0603302	CHIPR 3K OHM +-5% 1/10W	1	PCS
R87	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R88	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R89	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R90	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R91	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R92	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R94	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R95	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
RP2	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP3	61L 125472 8	CHIP AR 8P4R 4.7K OHM+-	1	PCS
U2	56G1133 34	M24C02-WMN6TP	1	PCS
U3	56G4LVC 14 P	74LVC14ADT	1	PCS
U4	56L 562 40	GM2116	1	PCS
U6	56G1133 42 C3	A290011TL-70	1	PCS

U7	56G1133 56	M24C16-WMN6TP	1	PCS
U8	56G 563 25	A1C1084-33PE	1	PCS
U9	56G 585 7	RT9164-25PL	1	PCS
ZD2	93G 39147	TZMC5V6	1	PCS
ZD3	93G 39147	TZMC5V6	1	PCS
ZD6	93G 39147	TZMC5V6	1	PCS
ZD7	93G 39147	TZMC5V6	1	PCS
ZD8	93G 39147	TZMC5V6	1	PCS
ZD9	93G 39147	TZMC5V6	1	PCS
	AIK562KD2	KEY BOARD FOR T562K*	1	PCS
JP801	95G8014 8508	HARNESS	1	PCS
LED1	81G 12 1 GP	GP32032ME	1	PCS
SW101	77L 600 1GHJ	KEY SWITCH	1	PCS
SW102	77L 600 1GHJ	KEY SWITCH	1	PCS
SW103	77L 600 1GHJ	KEY SWITCH	1	PCS
SW104	77L 600 1GHJ	KEY SWITCH	1	PCS
SW105	77L 600 1GHJ	KEY SWITCH	1	PCS
	715L 707 1 2	TF-1560 KEY BOARD PCB (SMD)	1	PCS
R108	61G 60210152T	100OHM +- 5% 1/6W	1	PCS
	PW5215A1E1SMT	LCD POWER ASS'Y FOR SMT	1	PCS
	40G 45762412B	CBPC LABEL	1.03	PCS
	705L 560 57 24	Q903 ASS'Y	1	PCS
	705L 780 57 02	CN901 ASS'Y	1	PCS
BD901	93G 50460502	KBP206G	1	PCS
C215	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS
C216	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS
C901	65G305M1022EM	Y2 1000PF +-20% 250VAC	1	PCS
C902	65G305M1022EM	Y2 1000PF +-20% 250VAC	1	PCS
C904	63G 107474 HS	0.47UF +-20% 275VAC	1	PCS
C905	67G305S10114H	100UF +-20% 400V	1	PCS
C906	65G 2K152 5E6921	1500 PF 10% 2KV Y5P	1	PCS
C913	65G306M4722BP	4700PF +-20% 400VAC	1	PCS
C922	67G215L102 3R	LOW E.S.R 1000UF +/-20%	1	PCS
C925	67G215L102 3R	LOW E.S.R 1000UF +/-20%	1	PCS
CN102	33G800912A	HEADER 2*6P	1	PCS
CN201	33G8020 2D AC	CONN.2P R/A DIP BY ACES	1	PCS
CN202	33G8020 2D AC	CONN.2P R/A DIP BY ACES	1	PCS
D910	93G3010 1	31DQ10FC	1	PCS
D912	93G3006 1	31DQ06FC	1	PCS

F901	84G 7H200 SL	250V/2A LIHEL FUSE	1	PCS
IC901	56G 379 32	SG6841DZ DIP-8	1	PCS
IC902	56G 139 3A	PC123Y22FZOF	1	PCS
L201	73G 253139 HA	CHOKE COIL	1	PCS
L903	73G 253 91 H	CHOKE COIL	1	PCS
L904	73G 253 91 H	CHOKE COIL	1	PCS
NR901	61G 58080 WT	8 OHM NCT	1	PCS
P051	51G 6 4500	RTV	2	G
Q209	57G 761 6	2SC5706-P-E	1	PCS
Q210	57G 761 6	2SC5706-P-E	1	PCS
R903	61G152M104 64	100KOHM 5% 2W	1	PCS
R919	61G 2J398 64	0.39 OHM 5% 2W	1	PCS
T901	80LL17T 2 NG	TRANSFORMER	1	PCS
	PWPC5215A1E1AI	LCD POWER ASS'Y FOR AI	1	PCS
C202	65G0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C203	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C205	65G0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C208	65G0805331 31	CHIP 330pF 50V NPO	1	PCS
C209	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C211	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C219	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C221	65G0805474 27	CHIP 0.47UF 25V Y5V	1	PCS
C225	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C910	65G0603104 37	CHIP 0.1UF 50V/Y5V	1	PCS
C927	65G0603104 37	CHIP 0.1UF 50V/Y5V	1	PCS
C928	65G0603104 37	CHIP 0.1UF 50V/Y5V	1	PCS
D201	93G2004 2A	SM240A DO-214AC	1	PCS
D203	93G 39S 3 T	BZT52-C11	1	PCS
F902	61L1206000 4	0 OHM 4A 1/4W	1	PCS
Q201	57G 760 5A	DTC 144WN3/S SOT-23	1	PCS
Q202	57G 760 4A	DTA144WN3/S SOT-23	1	PCS
Q203	57G 763 3B	AM9435P.T1-PF SO-8	1	PCS
R204	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R208	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R210	61L0603183	CHIP 18K OHM 1/10W	1	PCS
R212	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R214	61L0603222	RST SM 0603 RC0603 2K2	1	PCS
R216	61L0603221	RST SM 0603 RC0603 220R	1	PCS
R218	61L0603101	RST SM 0603 RC0603 100R	1	PCS

R219	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R222	61L0603123	CHIP 12K OHM 1/10W	1	PCS
R224	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R225	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R226	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R227	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R232	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R234	61L0603681	CHIP 680 OHM 1/10W	1	PCS
R236	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R238	61L0603123	CHIP 12K OHM 1/10W	1	PCS
R240	61L0603513	CHIP 51K OHM 1/10W	1	PCS
R901	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R902	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R904	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R905	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R906	61L1206684	CHIPR 680K OHM+-5% 1/4W	1	PCS
R907	61L1206684	CHIPR 680K OHM+-5% 1/4W	1	PCS
R909	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R910	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R911	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R912	61L1206101	CHIP 100 OHM 5% 1/4W	1	PCS
R915	61L1206103	CHIP 10KOHM 5% 1/4W	1	PCS
R916	61L0805240 2F	CHIP 24KOHM 1% 1/8W	1	PCS
R925	61L0805261 1F	CHIP 2.61KOHM 1/8W 1%	1	PCS
R926	61L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W	1	PCS
R928	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R929	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R931	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
U201	56G 608 1	TL1451ACD	1	PCS
ZD901	93G 39S 23 T	GLZ22B	1	PCS
ZD904	93G 39S 19 T	PTZ7.5B	1	PCS
	715L1034 1A 1	PCB VER:D	1	PCS
C201	67G215C1514HT	LOW ESR 150UF 25V 8*7MM	1	PCS
C204	64G700J1040AT	0.1UF 50V PEN	1	PCS
C207	67G 3053307XT	105 33UF +-20% 50	1	PCS
C905	6G 31502	1.5MM RIVET	2	PCS
C907	67G 3052207XT	105 22UF +-20% 50	1	PCS
C908	65G 450104 7T	0.1UF +80-20% 50V Y5V	1	PCS
C909	64G700J1040AT	0.1UF 50V PEN	1	PCS

C911	64G700J1020AT	1000PF 50V PEN	1	PCS
C920	65G517K102 5T6213	1000PF,K,500V,Y5P	1	PCS
C921	65G517K102 5T6213	1000PF,K,500V,Y5P	1	PCS
C924	67G215B4713HT	470UF 16V LTR471M1CF11V	1	PCS
C926	67G215B4713HT	470UF 16V LTR471M1CF11V	1	PCS
C936	64G700J1040AT	0.1UF 50V PEN	1	PCS
D205	93G 64 1152T	1N4148	1	PCS
D207	93G 64 1152T	1N4148	1	PCS
D209	93G 64 1152T	1N4148	1	PCS
D901	93G 6026T52T	RECTIFIER DIODE FR107	1	PCS
D902	93G 6038T52T	FR103	1	PCS
D903	93G 64 1152T	1N4148	1	PCS
FB901	71G 55 29	FERRITE BEAD	1	PCS
FB902	71G 55 19 T	FERRITE BEAD D9X3. 5X0.	1	PCS
FB903	71G 55 19 T	FERRITE BEAD D9X3. 5X0.	1	PCS
IC903	56G 158 4 T	H431BA	1	PCS
L902	6G 31502	1.5MM RIVET	4	PCS
PT201	6G 31502	1.5MM RIVET	2	PCS
Q205	57G 417 3 T	MPS3904	1	PCS
Q207	57G 414 2	MPS3906	1	PCS
Q901	57G 420 PP T	2PA733P	1	PCS
Q902	57G 419 PP T	2PC945P	1	PCS
R201	61G 60275352T	75KOHM 5%1/6W	1	PCS
R205	61G 60247352T	47KOHM 5% 1/6W	1	PCS
R220	61G 60215352T	15KOHM 5% 1/6W	1	PCS
R908	61G 17268952T	6.8OHM 5% 1/4W	1	PCS
R917	61G 17210052T	100HM 5% 1/4W	1	PCS
R918	61G 17210352T	CFR 10KOHM +-5% 1/4W	1	PCS
R920	61G 20747052T	47 OHM 1/2W	1	PCS
R922	61G 20747052T	47 OHM 1/2W	1	PCS
R930	61G 17210152T	100 OHM 5% 1/4W	1	PCS
T901	6G 31502	1.5MM RIVET	4	PCS
	90G 411501	HEAT SINK	1	PCS
	M1G17306.5128	SCREW	1	PCS
Q903	57G 724 4A	STP9NK60ZEP	1	PCS
	95G205S354022	HARNESS	1	PCS
CN901	87G 501 12 CJ	AC SOCKET	1	PCS
	15G5769 1	BRACKET	1	PCS
	15G5786 1	VRSA BRACKET	1	PCS

	33G4339 Y 1L	HINGE COVER (L)	1	PCS
	33G4339 Y 2L	HINGE COVER (R)	1	PCS
	34G 976 Y B	STAND BASE	1	PCS
	34G1034 Y B	STAND COVER F (SPK3)	1	PCS
	34G1035 Y B	STAND COVER B (SPK3)	1	PCS
	34G1100 YA6B	BACK COVER	1	PCS
	37G 450 1	LCD HINGE	1	PCS
	95G 900532	GROUNDING WIRE	1	PCS
	B1G 920 5120	SCREW 2X5MM	2	PCS
	M1G 330 4128	SCREW M3X4	2	PCS
	Q1G 330 10128	SCREW	2	PCS
	Q1G 340 8128	SCREW 4X8mm	2	PCS
	Q1G 340 10128	SCREW 4X10mm	2	PCS
	AM1G1740 12128	SCREW	4	PCS

T562KSXHBEAHA

Location	Part No. for TPV model	Description	Quantity
	007G 5 L101	COMPOUND PALLET	1.000
	007G 5 L102	COMPOUND PALLET	1.000
	015G5689501 A	CLAMP	1.000
	015G5908 2	BRACKET	1.000
	015G6094 C 1	MAIN FRAME	1.000
	026G 800504 6	BARCODE LABEL	1.000
	033G4362 1	LENS	1.000
	033G4447 Y 2L	KEY PAD	1.000
	034G 973 5Y 2B	FRONT PANEL	1.000
	040G 15062420A	ID LABEL	1.000
	044G3231 15528	EVA WASHER	1.000
	044G3515600 4A	CARTON	1.000
	044G3524 1	EPS(L)	1.000
	044G3524 2	EPS(R)	1.000
	044G9000 9A	PAPER BOARD	1.000
	044G9003210	CORNER PAPER	1.000
	045G 88500 13	PALLET PE BAG	1.000
	045G 88500 14	PALLET PE BAG	1.000
	045G 88607	PE BAG FOR MONITOR	1.000
	050G 600 2	HANDLE1	1.000
	050G 600 3	HANDLE2	1.000
	052G 1185	MIDDLE TAPE FOR CARTON	92.000

	052G 1186	SMALL TAPE	8.000
	052G 1211 A	165MINIUM TAPE	4.000
	052G6025 11523	INSULATE SHEET	1.000
	085G 634 11 A	SHIELD	1.000
	089G1735LAA D1	SIGNAL CABLE	1.000
	089G410A18N IS	POWER CORD WALL-OUT FOR UK	1.000
	095G8014 12 10	POWER LINE	1.000
	095G8018 14 2	WIRE HARNESS	1.000
	095G8020 5506	WIRE HARNESS	1.000
	0M1G 330 4128	SCREW M3X4	1.000
	0M1G 330 6128	SCREW	1.000
	0M1G1030 8128	WCREW M3X8	4.000
	0M1G1130 6128	SCREW	6.000
	0M1G1140 6128	SCREW 4X6	1.000
	0Q1G 330 8120	SCREW 3X8mm	8.000
	0Q1G 330 8120	SCREW 3X8mm	4.000
	0Q1G 330 8120	SCREW 3X8mm	2.000
E750L	750LLS50 XH	SEC 15" PANEL(XH-L01)	1.000
	CBPC560KSXACA	CONVERSION BOARD FOR T560K*	1.000
	KEPC562KD2	KEY BOARD FOR T562K*	1.000
	PWPC5425A2E1	POWER BOARD	1.000
	040G 58162435A	LABEL	1.000
	041G150062419A	MANUAL	1.000
	045G 76 28 RN	PE BAG FO MANUAL/BASE	2.000
	089G 173 56 4B	AUDIO CABLE	1.000
	015G5769 1	BRACKET	1.000
	015G5786 1	VRSA BRACKET	1.000
	033G4339 Y 1L	HINGE COVER (L)	1.000
	033G4339 Y 2L	HINGE COVER (R)	1.000
	034G 976 Y B	STAND BASE	1.000
	034G1034 Y B	STAND COVER F (SPK3)	1.000
	034G1035 Y B	STAND COVER B (SPK3)	1.000
	034G1100 YA6B	BACK COVER	1.000
	037G 450 1	LCD HINGE	1.000
E078	078G 314 1	SPEAKER 80HM 1W	1.000
	095G 900532	GROUNDING WIRE	1.000
	0B1G 920 5120	SCREW 2X5MM	2.000
	0M1G 330 4128	SCREW M3X4	2.000
	0Q1G 330 10128	SCREW	2.000

	0Q1G 340 8128	SCREW 4X8mm	2.000
	0Q1G 340 10128	SCREW 4X10mm	2.000
	AM1G1740 12128	SCREW	4.000
	AUPC562A1	AUDIO BOARD FOR T562S	1.000
CN503	033G801714A H	PIN HEADER 2*7 R/A	1.000
CN201	033G8027 12	WAFER 2*6P 2.0MM R/A	1.000
CN601	033G8027 14	WAFER 14P 2.0MM DIP DUAL ROW	1.000
CN602	033G8027 16	WAFER 16PIN 2.0mm DIP	1.000
	040G 457624 1B	LABEL-CPU	1.000
	040G 45762412B	CBPC LABEL	1.000
U601	056G1125137 X	W78E065A40PL PLCC44	1.000
C204	067G215B221 4H	LOW E.S.R 220UF +-20% 25V	1.000
CN301	088G 35315F HS	D-SUB 15P	1.000
X401	093G 22 53	CRYSTAL 14.318MHzHC-49US	1.000
X601	093G 22 55 H	20MHZ/20PF/49US	1.000
	AIC560KSXACA	MAIN BOARD FOR T560K*	1.000
SW105	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP	1.000
SW104	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP	1.000
SW103	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP	1.000
SW102	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP	1.000
SW101	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP	1.000
LED1	081G 12 1 GP	GP32032ME	1.000
JP801	095G8014 8508	HARNESS	1.000
	AIK562KD2	KEY BOARD FOR T562K*	1.000
CN102	033G800912A	HEADER 2*6P	1.000
CN204	033L8021 2D E	WAFER	1.000
CN203	033L8021 2D E	WAFER	1.000
CN202	033L8021 2D E	WAFER	1.000
CN201	033L8021 2D E	WAFER	1.000
	040G 45762412B	CBPC LABEL	1.000
IC902	056G 139 3A	PC123Y22FZOF	1.000
IC901	056G 379 32	SG6841DZ DIP-8	1.000
Q210	057G 761 6	2SC5706-P-E	1.000
Q209	057G 761 6	2SC5706-P-E	1.000
Q211	057G 761 6	2SC5706-P-E	1.000
Q212	057G 761 6	2SC5706-P-E	1.000
NR901	061G 58080 WT	8 OHM NCT	1.000
C903	063G 107474 HS	0.47UF +-20% 275VAC	1.000
C904	063G107K224 US	56KOHM 5% 1/6W	1.000

C915	065G 2K152 5E6921	1500 PF 10% 2KV Y5P	1.000
C215	065G 3J2206ET	22PF 5% SL 3KV TDK	1.000
C216	065G 3J2206ET	22PF 5% SL 3KV TDK	1.000
C217	065G 3J2206ET	22PF 5% SL 3KV TDK	1.000
C218	065G 3J2206ET	22PF 5% SL 3KV TDK	1.000
C902	065G305M1022E3	1000PF. M.250VAC.Y2	1.000
C901	065G305M1022E3	1000PF. M.250VAC.Y2	1.000
C912	065G306M3322F2	3300PF +-20% 400VAC Y1	1.000
C920	065G517K102 5T	1000PF 10% Y5P 500V	1.000
C923	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V	1.000
C922	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V	1.000
C912	071G 55 2 A	FERRITE BEAD 3*5*1.5	1.000
FB901	071G 55 29	FERRITE BEAD	1.000
L204	073G 174 30YSA	FILTER	1.000
L203	073G 174 30YSA	FILTER	1.000
L903	073G 253 91 H	CHOKE COIL	1.000
L904	073G 253 91 H	CHOKE COIL	1.000
L202	073G 253139 HA	CHOKE COIL	1.000
L201	073G 253139LSA	CHOKE COIL	1.000
L902	073L 174 26LSG	COMMON CHOKE	1.000
PT201	080LL15T 7YSG	X'FMR	1.000
PT202	080LL15T 7YSG	X'FMR	1.000
T901	080LL17T 2 LG	ADAPTOR BY LITAI	1.000
DB901	093G 50460502	KBP206G	1.000
D901	093G 6026T52T	RECTIFIER DIODE FR107	1.000
D902	093G 6038T52T	FR103	1.000
	705L 560 57 40	D910 D911 ASS'Y	1.000
	705L 560 5716A	Q903 ASS'Y	1.000
	705L 560 61 06	R903 ASS'Y	1.000
	705L 780 57 02	CN901 ASS'Y	1.000
	705L 780 57 42	R917 ASS'Y	1.000
	PW5425A2E1SMT	POWER BOARD FOR SMT	1.000
CN2	033G3802 4	WAFER EH-4	1.000
U1	056G 616 1	TDA7496	1.000
C5	067G 309470 4T	47UF +-20% 25V	1.000
C8	067G 309471 3T	470UF +-20% 16V	1.000
C2	067G 309471 3T	470UF +-20% 16V	1.000
C12	067G 309471 3T	470UF +-20% 16V	1.000
C10	067G 309471 3T	470UF +-20% 16V	1.000

C1	067G 309471 3T	470UF +-20% 16V	1.000
VR1	075L 35810321A	VR 10KB BLACK R103H-0BK1	1.000
M2	088G 30210K	PHONE JACK 5PIN	1.000
M1	088G 30211K	PHONE JACK 5PIN	1.000
CN1	095G8020 5 1	WIRE HARNESS	1.000
	AUPC562A1SMT	LCD AUDIO BOARD FOR T562S*SMT	1.000
U401	056G 562 57	MST8011B-LF PQFP-128	1.000
U202	056G 563 25	A1C1084-33PE	1.000
U201	056G 585 5A	AP1117E25A	1.000
U301	056G1133 34	M24C02-WMN6TP	1.000
U602	056G1133516	M24C16-WMN6T	1.000
Q201	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1.000
Q202	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1.000
Q204	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1.000
Q601	057G 417 6	PMBS3906/PHILIPS-SMT(06)	1.000
Q602	057G 417 6	PMBS3906/PHILIPS-SMT(06)	1.000
Q203	057G 763 1A	AP2305N	1.000
RN602	061L 125103 8	CHIP AR 8P4R 10KOHM +-5% 1/16W	1.000
RN601	061L 125103 8	CHIP AR 8P4R 10KOHM +-5% 1/16W	1.000
FB303	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R210	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R502	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R620	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R621	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R622	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R623	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R624	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
FB302	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
FB301	061L0603000	RST SM 0603 JUMP MAX 0R05 R	1.000
R306	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R307	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R309	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R312	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R315	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R316	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R608	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R609	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R634	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R635	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000

R305	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R303	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R302	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R301	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R311	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R310	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R203	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R406	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R407	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R601	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R602	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R603	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R604	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R605	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R606	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R627	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R626	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R615	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R607	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R613	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R614	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R405	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R202	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R204	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R206	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R208	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R211	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R308	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R314	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R404	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R313	061L0603222	CHIPR 2.2K OHM+-5% 1/16W	1.000
R403	061L0603390 0F	CHIP 390 OHM 1/10W 1%	1.000
R618	061L0603471	CHIPR 470 OHM+-5% 1/16W	1.000
R617	061L0603471	CHIPR 470 OHM+-5% 1/16W	1.000
R304	061L0603471	CHIPR 470 OHM+-5% 1/16W	1.000
R201	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R205	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R207	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R212	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000

R317	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R318	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R402	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R616	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R619	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R325	061L0603750	CHIPR 75 OHM+-5% 1/16W	1.000
R326	061L0603750	CHIPR 75 OHM+-5% 1/16W	1.000
R327	061L0603750	CHIPR 75 OHM+-5% 1/16W	1.000
C610	065G0603102 32	1000PF +-10% 50V X7R	1.000
C609	065G0603102 32	1000PF +-10% 50V X7R	1.000
C608	065G0603102 32	1000PF +-10% 50V X7R	1.000
C607	065G0603102 32	1000PF +-10% 50V X7R	1.000
C606	065G0603102 32	1000PF +-10% 50V X7R	1.000
C307	065G0603102 32	1000PF +-10% 50V X7R	1.000
C408	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C409	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C410	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C411	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C412	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C413	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C415	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C416	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C417	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C418	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C420	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C421	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C511	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C510	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C428	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C426	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C425	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C423	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C407	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C605	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C601	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C201	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C203	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C205	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C207	065G0603104 32	CHIP 0.1UF 50V X7R	1.000

C210	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C212	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C214	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C216	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C313	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C401	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C404	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C406	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C402	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R	1.000
C403	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R	1.000
C602	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R	1.000
C604	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R	1.000
C312	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R	1.000
C311	065G0603330 31	CER1 0603 NP0 50V 33P PM5 R	1.000
C310	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C309	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C308	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C306	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C305	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C304	065G0603473 32	CHIP 0.047UF 50V X7R	1.000
C206	065G0805105 27	CHIP 1UF Y5V 0805	1.000
FB304	071G 56G151 A	TB160808G151	1.000
FB601	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB406	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB405	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB404	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB403	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB402	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB401	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
FB201	071G 56Z601	CHIP BEAD 600 OHM 0805	1.000
U601	087G 202 44	IC SOCKET 44P PLCC	1.000
D321	093G 39147SEM	ZMM5V6ST	1.000
D320	093G 39147SEM	ZMM5V6ST	1.000
D319	093G 39147SEM	ZMM5V6ST	1.000
D317	093G 39147SEM	ZMM5V6ST	1.000
D318	093G 39147SEM	ZMM5V6ST	1.000
D304	093G 64 42 P	BAV70 SOT-23	1.000
D601	093G 6432V	LL4148-GS08	1.000
D302	093G 6433P	BAV99	1.000

D303	093G 6433P	BAV99	1.000
D301	093G 6433P	BAV99	1.000
D201	093G1004 3	SS14	1.000
D202	093G1020 1 S	GS1D	1.000
	715L1203 1	MAIN BOARD PCB	1.000
	715L 707 1 2	KEY BOARD PCB	1.000
R108	061G 60210152T	100OHM +- 5% 1/6W	1.000
	090G6064 1	HEAT SINK	1.000
D911	093G 60240	YG802C06R TO-220F15	1.000
D910	093G 60241	YG802C10R	1.000
	0M1G1730 8128	SCREW M3x8	2.000
Q903	057G 724 4A	STP9NK60ZEP	1.000
	090G 407 2	HEAT SINK	1.000
	0M1G1730 7128	SCREW	1.000
R903	061G152M10458F	100K OHM 5% 2W	1.000
	096G 29 6	SHRINK TUBE UL/CSA	20.000
CN901	087G 501 12 CJ	AC SOCKET	1.000
	095G205S354022	HARNESS	1.000
	096G 29 6	SHRINK TUBE UL/CSA	20.000
R917	061G152M39858F	0.39 OHM 5% 2W	1.000
R917	096G 29 6	SHRINK TUBE UL/CSA	1.000
U201	056G 608 1	TL1451ACD	1.000
Q205	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1.000
Q206	057G 417 4	PMBS3904/PHILIPS-SMT(04)	1.000
Q208	057G 417 6	PMBS3906/PHILIPS-SMT(06)	1.000
Q207	057G 417 6	PMBS3906/PHILIPS-SMT(06)	1.000
Q202	057G 760 4B	PDTA144WK SOT346	1.000
Q201	057G 760 5B	PDTC144WK SOT346	1.000
Q204	057G 763 3	AO4411 SO-8	1.000
Q203	057G 763 3	AO4411 SO-8	1.000
R219	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R218	061L0603101	CHIPR 100 OHM +-5% 1/16W	1.000
R244	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R243	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R233	061L0603102	CHIPR 1K OHM +-5% 1/16W	1.000
R204	061L0603103	CHIPR 10K OHM +-5% 1/16W	1.000
R210	061L0603123	CHIP 12K OHM 1/16W	1.000
R211	061L0603123	CHIP 12K OHM 1/16W	1.000
R222	061L0603123	CHIP 12K OHM 1/16W	1.000

R238	061L0603123	CHIP 12K OHM 1/16W	1.000
R239	061L0603123	CHIP 12K OHM 1/16W	1.000
R220	061L0603153	CHIPR 15KOHM+-5% 1/10W	1.000
R201	061L0603203	CHIPR 20K OHM+-5% 1/10W	1.000
R214	061L0603222	CHIPR 2.2K OHM+-5% 1/16W	1.000
R215	061L0603222	CHIPR 2.2K OHM+-5% 1/16W	1.000
R213	061L0603392	CHIP 3.9K OHM 1/16W	1.000
R212	061L0603392	CHIP 3.9K OHM 1/16W	1.000
R209	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R208	061L0603472	CHIPR 4.7K OHM +-5% 1/16W	1.000
R205	061L0603473	RST SM 0603 RC0603 47K PM5 R	1.000
R206	061L0603473	RST SM 0603 RC0603 47K PM5 R	1.000
R202	061L0603512	CHIP 5.1K OHM 1/16W	1.000
R203	061L0603512	CHIP 5.1K OHM 1/16W	1.000
R240	061L0603513	CHIP 51K OHM	1.000
R241	061L0603513	CHIP 51K OHM	1.000
R236	061L0603561	CHIP 560 OHM 1/10W	1.000
R237	061L0603561	CHIP 560 OHM 1/10W	1.000
R927	061L0805000	CHIPR 0OHM +-5% 1/10W	1.000
R915	061L0805100	CHIPR 10 OHM+-5% 1/10W	1.000
R232	061L0805102	CHIPR 1K OHM +-5% 1/10W	1.000
R926	061L0805102	CHIPR 1K OHM +-5% 1/10W	1.000
R928	061L0805102	CHIPR 1K OHM +-5% 1/10W	1.000
R916	061L0805103	CHIPR 10K OHM +-5% 1/10W	1.000
R913	061L0805103	CHIPR 10K OHM +-5% 1/10W	1.000
R223	061L0805123	CHIP 12KOHM 1/8W	1.000
R221	061L0805123	CHIP 12KOHM 1/8W	1.000
R216	061L0805221	CHIPR 220 OHM +-5% 1/8W	1.000
R217	061L0805221	CHIPR 220 OHM +-5% 1/8W	1.000
R924	061L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W	1.000
R914	061L0805240 2F	CHIP 24KOHM 1% 1/8W	1.000
R922	061L0805330 2F	CHIP 33KOHM 1/8W 1%	1.000
R909	061L0805472	CHIRP 4.7K OHM +-5% 1/10W	1.000
R910	061L0805472	CHIRP 4.7K OHM +-5% 1/10W	1.000
R911	061L0805472	CHIRP 4.7K OHM +-5% 1/10W	1.000
R234	061L0805621	CHIP 620OHM 1/8W	1.000
R235	061L0805621	CHIP 620OHM 1/8W	1.000
R930	061L1206101	CHIP 100 OHM 5% 1/8W	1.000
R929	061L1206101	CHIP 100 OHM 5% 1/8W	1.000

R920	061L1206101	CHIP 100 OHM 5% 1/8W	1.000
R912	061L1206101	CHIP 100 OHM 5% 1/8W	1.000
R904	061L1206105	CHIP 1MOHM 5% 1/4W	1.000
R905	061L1206105	CHIP 1MOHM 5% 1/4W	1.000
R231	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R230	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R229	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R228	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R227	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R226	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R225	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R224	061L1206152	CHIPR 1.5K OHM+-5%1/4W	1.000
R921	061L1206470	CHIP 47OHM 5% 1/4W	1.000
R907	061L1206684	CHIPR 680K OHM+-5% 1/8W	1.000
R906	061L1206684	CHIPR 680K OHM+-5% 1/8W	1.000
R902	061L1206684	CHIPR 680K OHM+-5% 1/8W	1.000
R901	061L1206684	CHIPR 680K OHM+-5% 1/8W	1.000
R908	061L1206689	CHIPR 6.8OHM+-5% 1/4W	1.000
C206	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C205	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C204	065G0603104 32	CHIP 0.1UF 50V X7R	1.000
C208	065G0603331 31	330PF +-5% 50V NPO	1.000
C221	065G0603474 17	CHIP CAP.CER 0.47UF -20% -80%	1.000
C222	065G0603474 17	CHIP CAP.CER 0.47UF -20% -80%	1.000
C202	065G0805104 22	0.1UF +-10% 25V X7R 080	1.000
C909	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C926	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C927	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C929	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C908	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C907	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C210	065G0805105 22	CHIP 1UF 25V X7R 0805	1.000
C209	065G0805105 22	CHIP 1UF 25V X7R 0805	1.000
C203	065G0805105 22	CHIP 1UF 25V X7R 0805	1.000
C211	065G0805105 27	CHIP 1UF Y5V 0805	1.000
C212	065G0805105 27	CHIP 1UF Y5V 0805	1.000
C219	065G0805105 27	CHIP 1UF Y5V 0805	1.000
C220	065G0805105 27	CHIP 1UF Y5V 0805	1.000
C224	065G0805105 27	CHIP 1UF Y5V 0805	1.000

C225	065G0805105 27	CHIP 1UF Y5V 0805	1.000
D208	093G 6432V	LL4148-GS08	1.000
D209	093G 6432V	LL4148-GS08	1.000
D210	093G 6432V	LL4148-GS08	1.000
D903	093G 6432V	LL4148-GS08	1.000
D207	093G 6432V	LL4148-GS08	1.000
D206	093G 6432V	LL4148-GS08	1.000
D205	093G 6432V	LL4148-GS08	1.000
D203	093G 39S 3 T	BZT52-C11	1.000
D204	093G 39S 3 T	BZT52-C11	1.000
ZD904	093G 39S 19 T	PTZ7.5B	1.000
ZD901	093G 39S 23 T	GLZ22B	1.000
D201	093G2004 2A	SM240A DO-214AC	1.000
D202	093G2004 2A	SM240A DO-214AC	1.000
	PWPC5425A2E1AI	POWER BOARD FOR AI	1.000
R1	061L0805000	CHIPR 0OHM +-5% 1/10W	1.000
R7	061L0805102	CHIPR 1K OHM +-5% 1/10W	1.000
R6	061L0805102	CHIPR 1K OHM +-5% 1/10W	1.000
R5	061L0805103	CHIPR 10K OHM +-5% 1/10W	1.000
R4	061L0805103	CHIPR 10K OHM +-5% 1/10W	1.000
R3	061L0805103	CHIPR 10K OHM +-5% 1/10W	1.000
R12	061L0805182	1.8KOHM +-5% 1/8W,0805	1.000
R9	061L0805224	CHIPR 220K OHM +-5% 1/10W	1.000
R11	061L0805562	CHIP 5.6K OHM 1/10W	1.000
R10	061L0805562	CHIP 5.6K OHM 1/10W	1.000
R8	061L0805750	CHIPR 75 OHM +-5% 1/10W	1.000
R2	061L0805750	CHIPR 75 OHM +-5% 1/10W	1.000
C9	065G0805104 22	0.1UF +-10% 25V X7R 080	1.000
C7	065G0805104 22	0.1UF +-10% 25V X7R 080	1.000
C3	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C16	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C13	065G0805104 32	CHIP 0.1U 50V X7R	1.000
C14	065G0805221 32	CHIP 220PF 50V X7R 0805	1.000
C15	065G0805221 32	CHIP 220PF 50V X7R 0805	1.000
D1	093G 39S3V6 G	EMM55C3V6	1.000
	715L 989 1	AUDIO BOARD PCB	1.000
CN901	006G 31500	EYELET	2.000
T901	006G 31502	1.5MM RIVET	4.000
PT202	006G 31502	1.5MM RIVET	2.000

PT201	006G 31502	1.5MM RIVET	2.000
C905	006G 31502	1.5MM RIVET	2.000
L902	006G 31502	1.5MM RIVET	4.000
NR901	006G 31502	1.5MM RIVET	2.000
	715L1224 3	PCB	1.000
R923	061G 60236252T	CFR 3.6KOHM +-5% 1/6W	1.000
F901	084G 55 2	MET2.50	1.000
IC903	056G 158 4 T	H431BA	1.000
Q902	057G 419 PP T	2PC945P	1.000
Q901	057G 420 PP T	2PA733P	1.000
C921	065G517K102 5T	1000PF 10% Y5P 500V	1.000
C925	067G215B4713HT	470UF 16V LTR471M1CF11VR 8*11m	1.000
C924	067G215B4713HT	470UF 16V LTR471M1CF11VR 8*11m	1.000
C223	067G215C1514HT	LOW ESR 150UF 25V 8*7MM	1.000
C201	067G215C1514HT	LOW ESR 150UF 25V 8*7MM	1.000