

PLE1700S Service Manual

TABLE OF CONTENTS

	PAGE
1. PRECAUTION AND NOTICES -----	1
1.1. SAFETY PRECAUTIONS -----	1
1.2. PRODUCT SAFETY NOTICE -----	1
1.3. SERVICE NOTES-----	1
2. SERVICE TOOL & EQUIPMENT REQUIRED -----	2
3. SPECIFICATIONS -----	2~4
3.1. PRODUCT SPECIFICATIONS -----	2
3.2. FACTORY SUPPORTING MODES-----	3
3.3. D-SUB CONNECTOR -----	3
3.4. DVI CONNECTOR-----	4
4. EXPLODED VIEW AND PARTS LIST -----	5~6
4.1. EXPLODED VIEW -----	5
4.2. EXPLODED VIEW PARTS LIST -----	6
5. BLOCK DIAGRAM -----	7
6. SCHEMATIC DIAGRAM -----	8~15
6.1. Input -----	8
6.2. Dc to Dc-----	9
6.3. Scaler-----	10
6.4. Panel Interface-----	11
6.5. Key Pad -----	12
6.6. Audio -----	13
6.7. Inverter-----	14
6.8. Power-----	15
7. WORKING THEOREM -----	16~19
8. WIRING DIAGRAM -----	20
9. PCB LAYOUT -----	21~24
9.1. MAIN PCB TOP VIEW -----	21
9.2. MAIN PCB BOTTOM VIEW -----	22
9.3. POWER & KEYPAD PCB TOP VIEW -----	23
9.4. POWER & KEYPAD PCB BOTTOM VIEW -----	24
10. TROUBLE SHOOTING FLOW CHART -----	25~29
10.1. NO POWER -----	26
10.2. NO DISPLAY-----	27
10.3. LOSE COLOR-----	28
10.4. NO AUDIO -----	29
11. ADJUSTMENT -----	30~31
11.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS -----	30
11.2. MAIN ADJUSTMENTS -----	30
11.3. ALIGNMENT PROCEDURES-----	30~31
12. ELECTRICAL PARTS LIST -----	32~40

PLE1700S Service Manual

1. PRECAUTION AND NOTICES

1.1. SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as to the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

WARNINGS:

- ◆ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Use only the special power adapter that comes with this monitor for power input.
- ◆ Do not try to repair the monitor your self as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- ◆ Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- ◆ Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the monitor or power cord.

1.2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

1.3. SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
3. Keep wires away from high voltage, high temperature components and sharp edges.
4. Keep wires in their original position so as to reduce interference.
5. Usage of this product please refer to also user's manual.

PLE1700S Service Manual

2. SERVICE TOOL & EQUIPMENT REQUIRED

1. SIGNAL GEN.
2. MULTIMETER
3. OSCILLOSCOPE
4. SCREW DRIVER
5. IRON
6. ABSORBER
7. SOLDER
8. DUMMY LOAD (5ohm/200W)

3. SPECIFICATIONS

3.1. PRODUCT SPECIFICATIONS

LCD Panel	17.0" TFT
Power Management	Energy Star compliant VESA DPMS compatible <1W
Displayable Resolution	SXGA 1280× 1024 (max.)
Pixel Dimension	0.264(H)× 0.264(V)mm
LCD Display Color	16.2M Color Max. (6bit+FRC)
Viewing Angle	CR ≥ 10 Horizontal: 140° Vertical: 130°
Tilt	+90°, -5°
Contrast Ratio	600 : 1 (typ.)
Brightness	250 cd/ m2 (min.) 300 cd/m2 (typ.)
Response Time	Tr:+Tf: 5ms(typ.) Tr: +Tf: 10ms(max.)
Active Display Area	337.92mm(H)× 270.336mm(V)
Temperature	Operating: 0°C ~ +40°C Storage: -20°C ~ +60°C
Compliance	UL +c-UL, FCC, TUV/GS,prEN50279, VCCI-B,GOST, TCO'03,CE,ISO13406-2.
Power	Input Voltage: 100~240 Vac Consumption:38 Watts (Max.)

PLE1700S Service Manual

3.2. FACTORY SUPPORTING MODES

There are totally 35 timings mode that can be saved in memory by FIFO architecture.

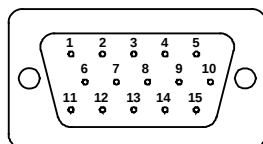
This monitor can support VGA up to SXGA resolution.

There are some resolution example listed in lookup timing table.

Lookup timing table	VGA	720 × 400 (70Hz) mode
	VGA	640 × 480 (60Hz) mode
	VESA	640 × 480 (75Hz) mode 800 × 600 (56Hz) mode 800 × 600 (60Hz) mode 800 × 600 (72Hz) mode 800 × 600 (75Hz) mode 1024 × 768 (60Hz) mode 1024 × 768 (70Hz) mode 1024 × 768 (75Hz) mode 1280 × 1024 (60Hz) mode 1280 × 1024 (75Hz) mode
	MAC	640 × 480 (67Hz) mode 832 × 624 (74.5Hz) mode

3.3. D-SUB CONNECTOR

D-SUB 15 PIN CONNECTOR



1.R	6.GND	11.NC
2.G	7.GND	12.SDA
3.B	8.GND	13.H.SYNC
4.NC	9. +5V	14.V.SYNC
5.GND	10.GND	15.SCL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
B	BLUE	0.7vp-p(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL

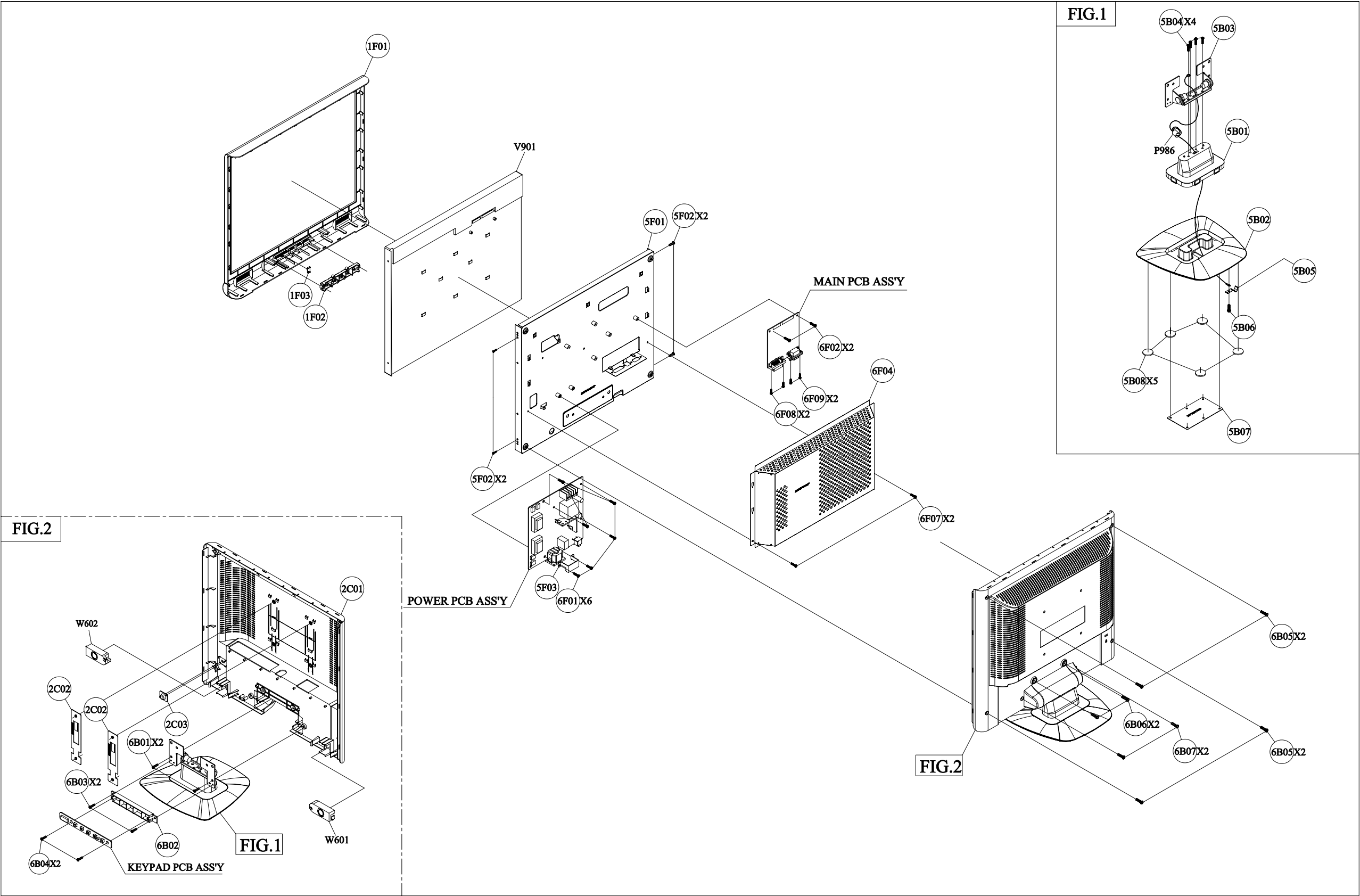
PLE1700S Service Manual

3.4 DVI CONNECTOR

DVI-D connector

1	RX2-	2	RX2+	3	SHLD2	4	NC	5	NC	6	SCL	7	SDA	8	V-sync
9	RX1-	10	RX1+	11	SHLD1	12	NC	13	NC	14	5V	15	GND	16	SENSE
17	RX0-	18	RX0+	19	SHLD0	20	NC	21	NC	22	SHLDC	23	RXC+	24	RXC-

4.1. EXPLODED VIEW



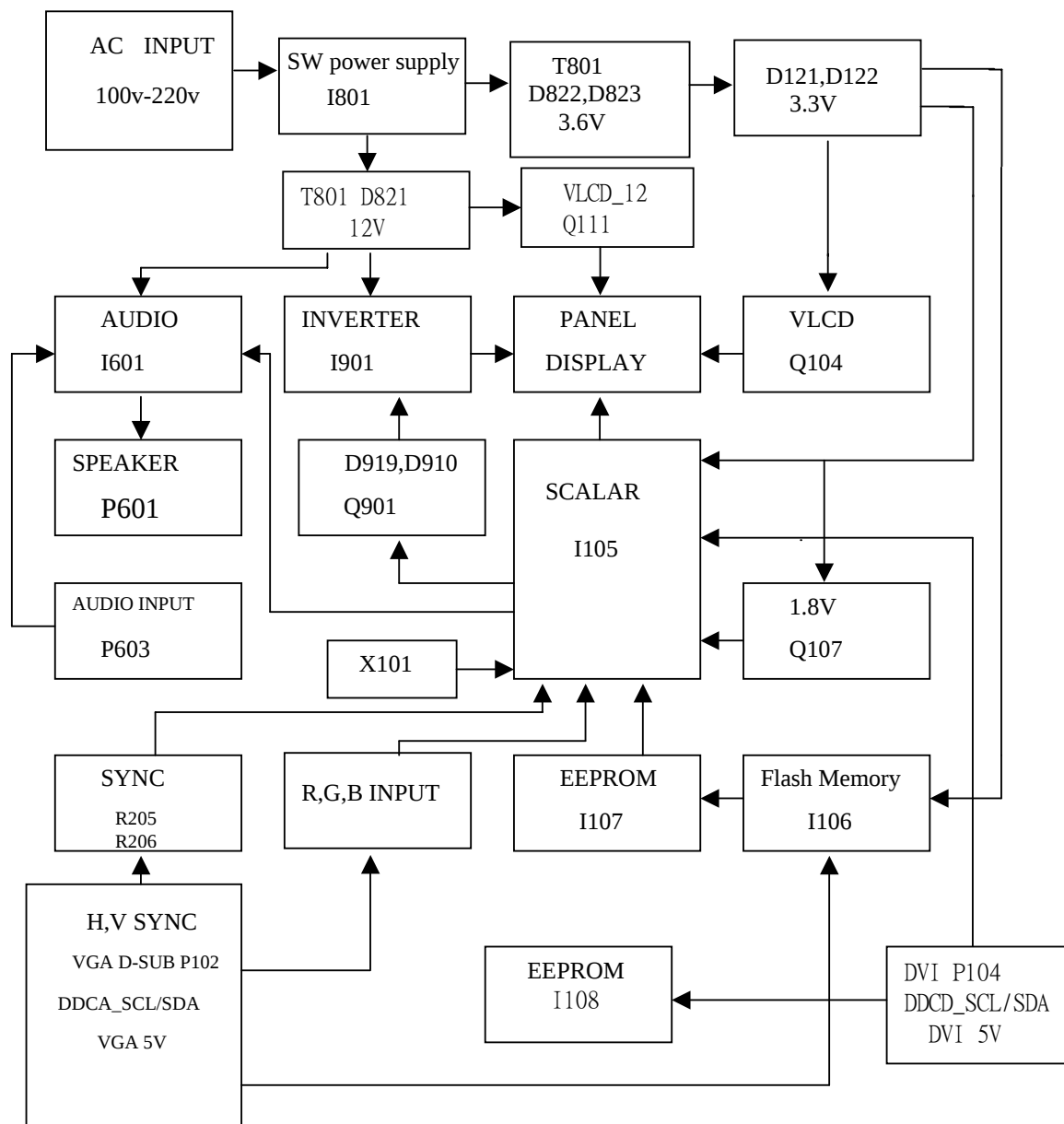
PLE1700S Service Manual

4.2. EXPLODED VIEW PARTS LIST

Ref. No.	Source	Part No.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1F01		2024272403P	FRONT BEZEL	PLE1700S IYYAMA ABSHB DY-3054	1	PLE1700S-S1
1F01		2024272404P	FRONT BEZEL	PLE1700S IYYAMA ABSHB BLK C	1	PLE1700S-B1
1F02		2044270004P	FUNCTION KEY	JT178BP ABS 94HB DY-3054	1	PLE1700S-S1
1F02		2044270001P	FUNCTION KEY	JT178BP ABS 94HB BLACK C	1	PLE1700S-B1
1F03		2053755701P	LED INDIC.-PWR	JT198ZP6HR PMMA	1	
2C01		2022266701P	CABI BACK	178BP NO LOGO ABSHB BLK C DVI2	1	
2C02		2071873500P	BRACKET, FIX	JT178DP SECC 0.8T WALL MOUNT	2	
2C03		2071869400P	BRACKET, FIX	METAL PLATE 1.0MM KENSINGTON	1	
5B01		2028555001P	NECK	JT178BP ABS 94HB BLACK C	1	
5B02		2028261601P	STAND	JT178SP S BASE ABS 94HB BLK C	1	
5B03	RA	2106658600P	HINGE	JT178BP 0~20' 30~35KGF.CM HY	1	
5B03	RB	2106658601P	HINGE	JT178BP 0~20' 30~35KGF.CM TL	1	
5B04		2084740122P	SCREW, BND T+	M4*12 (BND T+)	4	
5B05		2105252300P	SPRING PLATE	JT166DP18 P-CU T=0.2mm	1	
5B06		2084730062P	SCREW, BND T+	M3X6 (BND T+)	1	
5B07		2071880700P	BRACKET, FIX	JT178BP SECC 0.6T FOR STAND	1	
5B08		2039819301P	FOOT PAD	RUBBER O20*2TMM SQUARE GRAIN	5	
5F01		2071980200P	METAL FITTG	JT178BP/SP SECC 0.6T G/B DVI	1	
5F02		2080002200P	SCREW, SPE	L355 M3x6 DH NICKEL-PLATED	4	
5F03		2071874300P	BRACKET, FIX	SECC T=0.8 VE910 ACINLET	1	
6B01		2084740122P	SCREW, BND T+	M4*12 (BND T+)	2	
6B02		2054257301P	ORNAMENT	JT178BP K/B HOLDER ABSHB BLK C	1	
6B03		2082630062P	SCREW	M3X6 P=0.5	2	
6B04		2084730082P	SCREW, BND T+	M3X8 (BND T+)	2	
6B05		2082630064P	SCREW	M3*6 P=0.5 BLACK	4	
6B06		2081440084P	SCREW, (WASH)	M4*8 P=0.7 (TOOTH WASHER) BLACK	2	
6B07		2084730084P	SCREW, BND T+	M3X8 (BND T+) (BLK)	2	
6F01		2080003700P	SCREW, SPE	ISZZTER001A M3*6L MSWR17/FZMYI	6	
6F02		2080003700P	SCREW, SPE	ISZZTER001A M3*6L MSWR17/FZMYI	2	
6F04		2071676400P	SHIELD PLATE	JT178BP SPTE 0.3T DVI 2/B	1	
6F07		2082630042P	SCREW	M3*4 P=0.5	2	
6F08		2080004000P	SCREW, SPE	STAND-OFF HEX #4-40UNC H5*5*7L	2	
6F09		2080004000P	SCREW, SPE	STAND-OFF HEX #4-40UNC H5*5*7L	2	

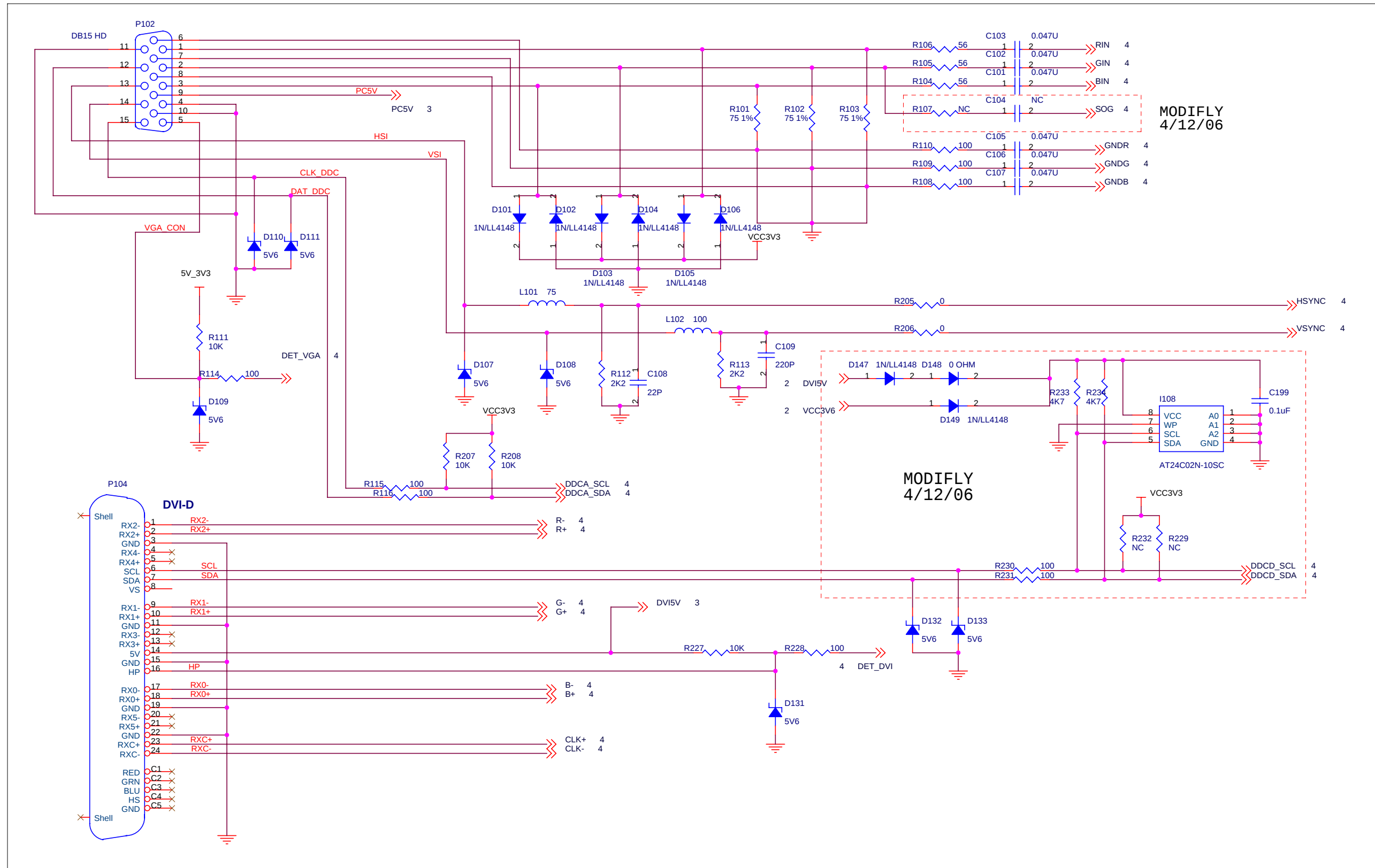
PLE1700S Service Manual

5. BLOCK DIAGRAM



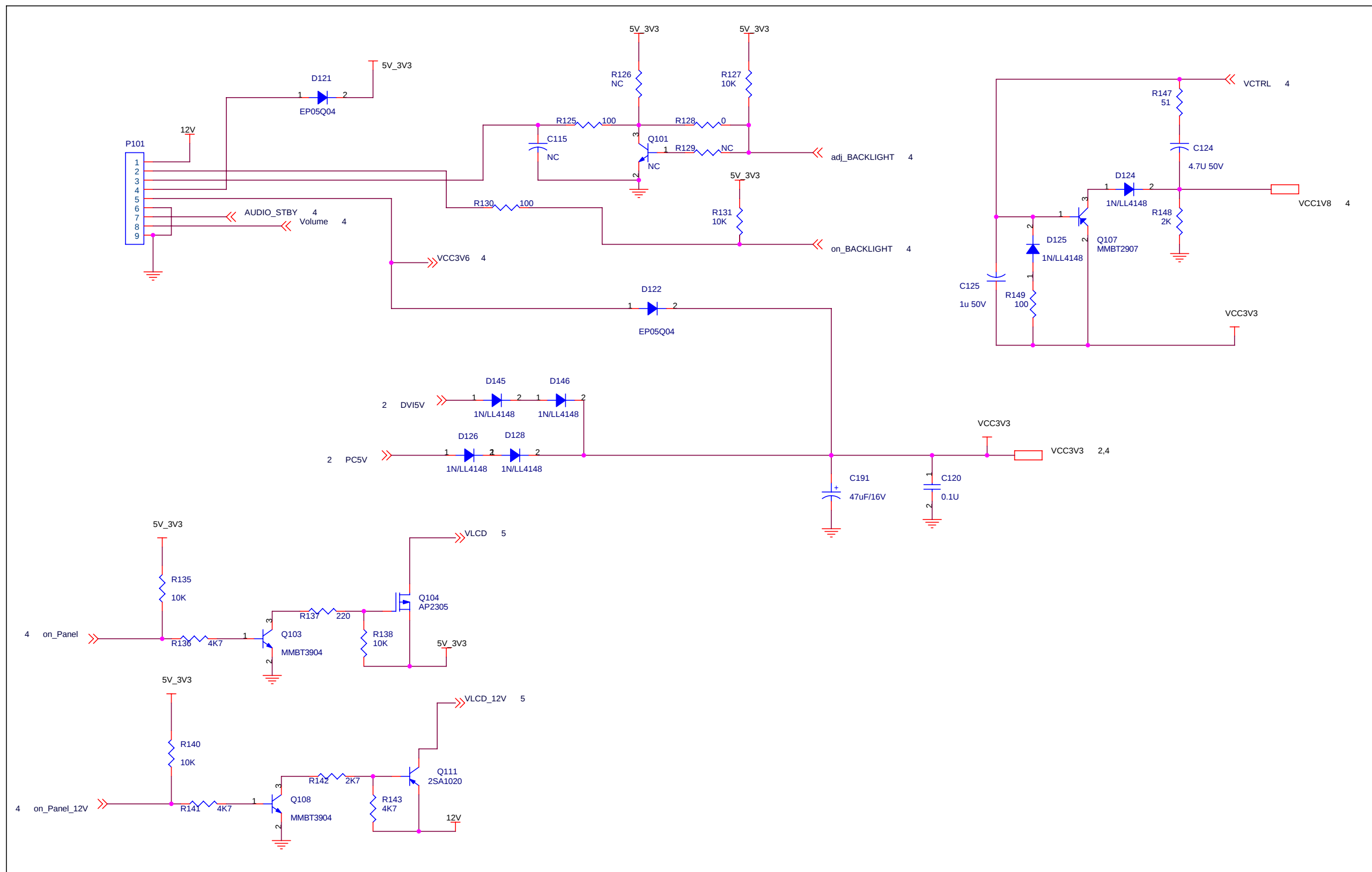
6. SCHEMATIC DIAGRAM

6.1. Input



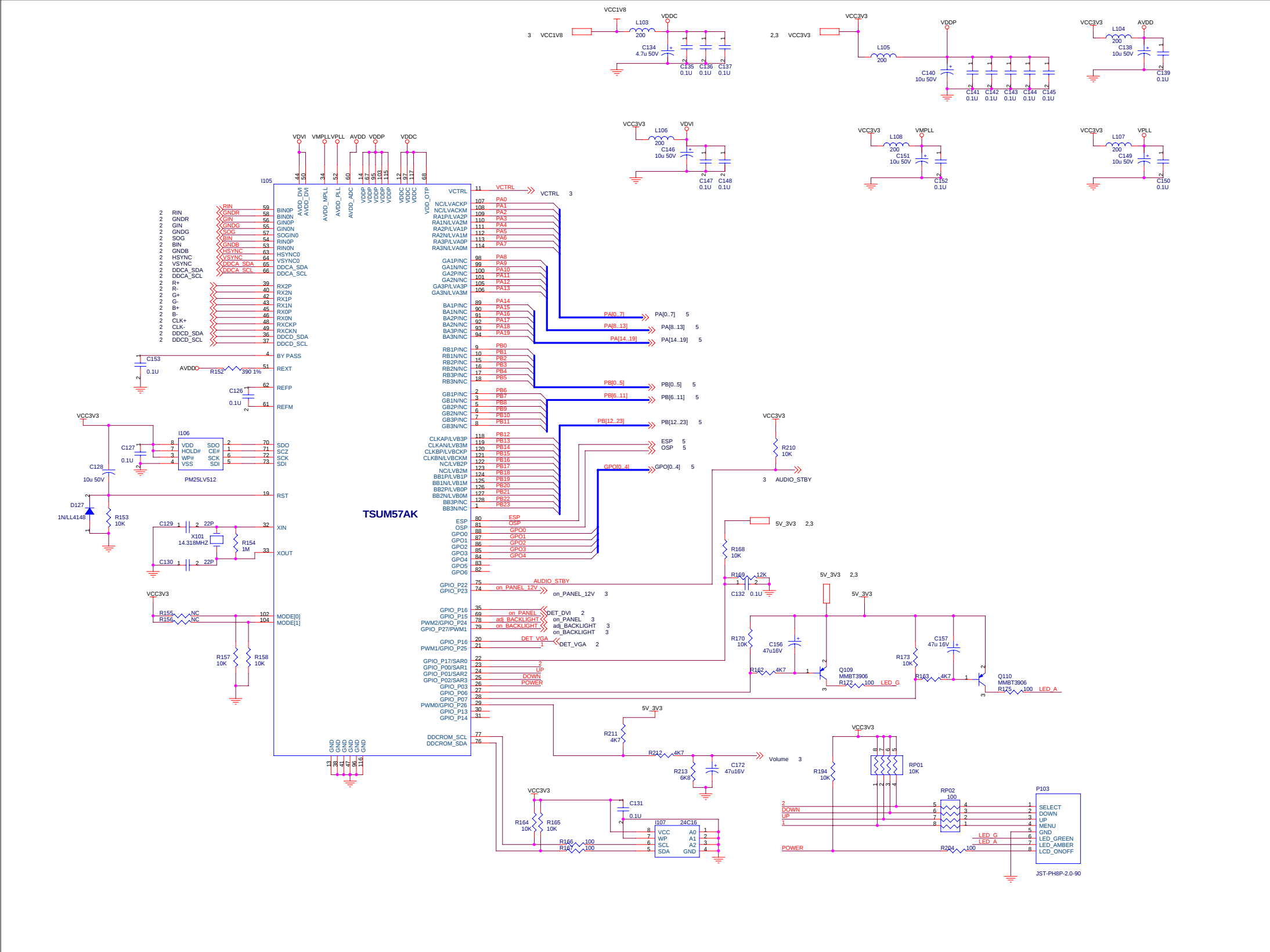
PLE1700S Service Manual

6.2. Dc to Dc



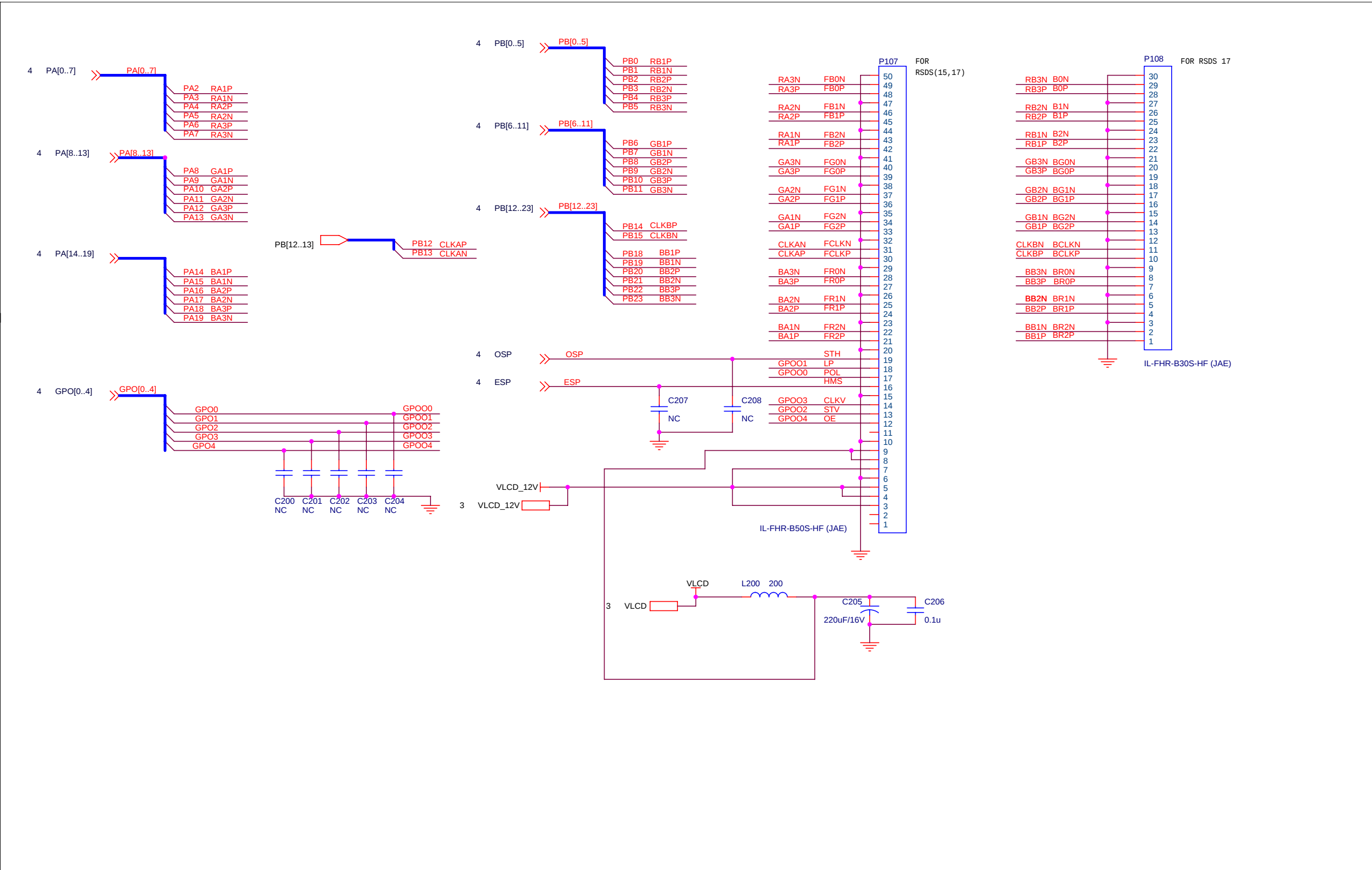
PLE1700S Service Manual

6.3. Scaler

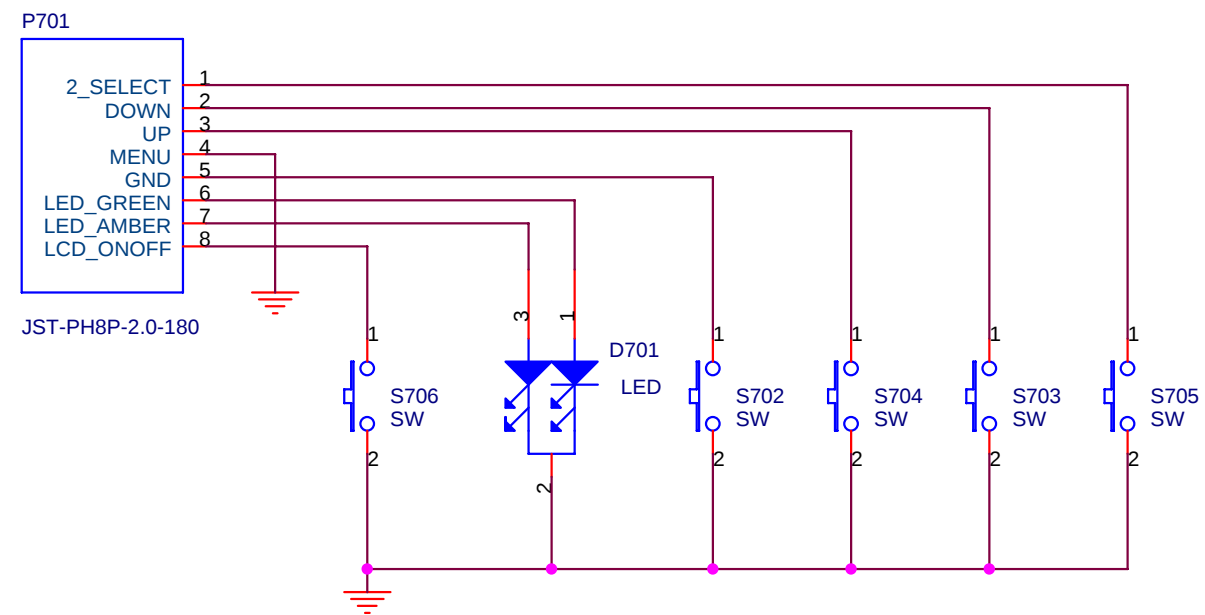


PLE1700S Service Manual

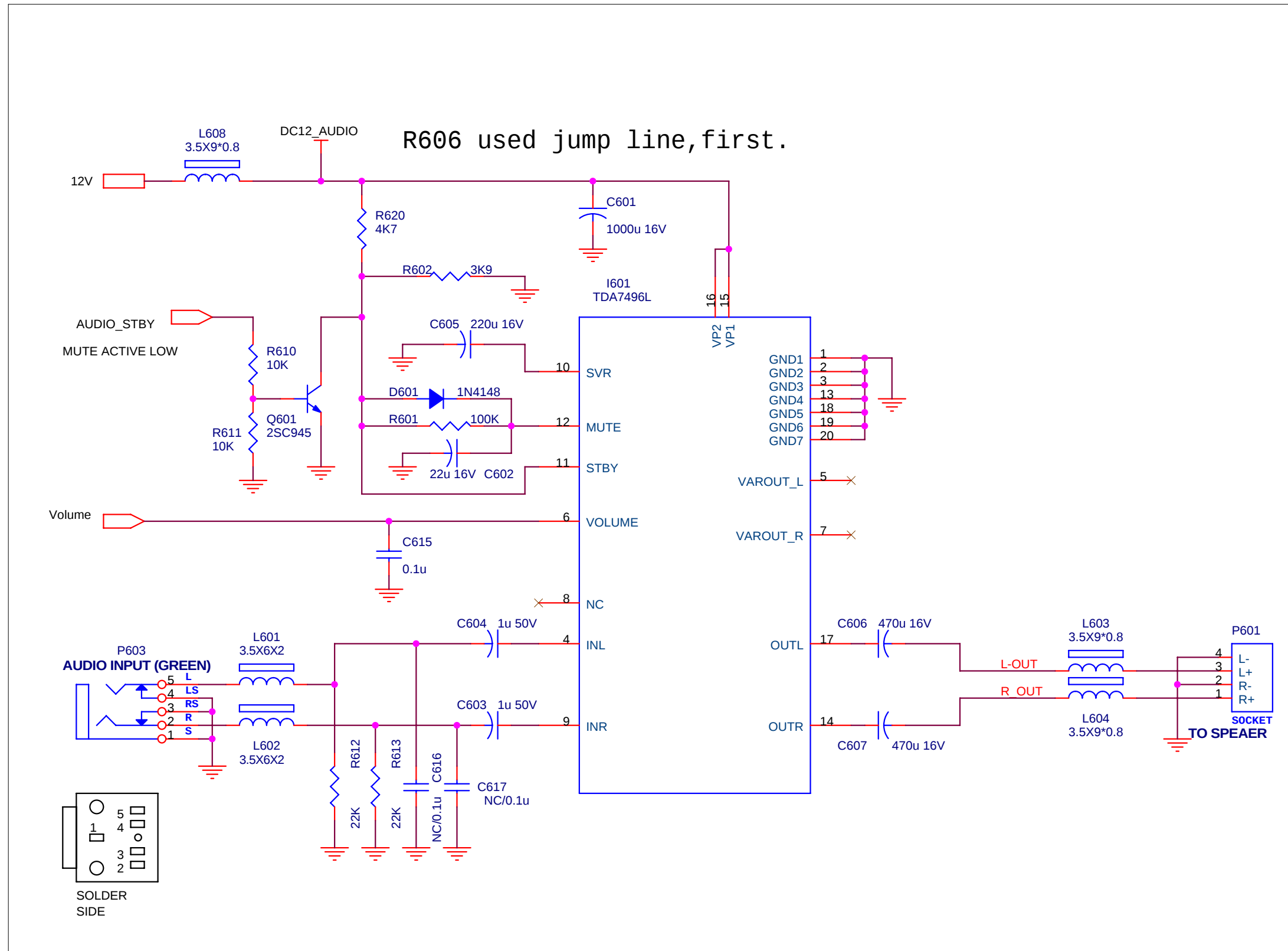
6.4. Panel Interface



6.5. Key Pad

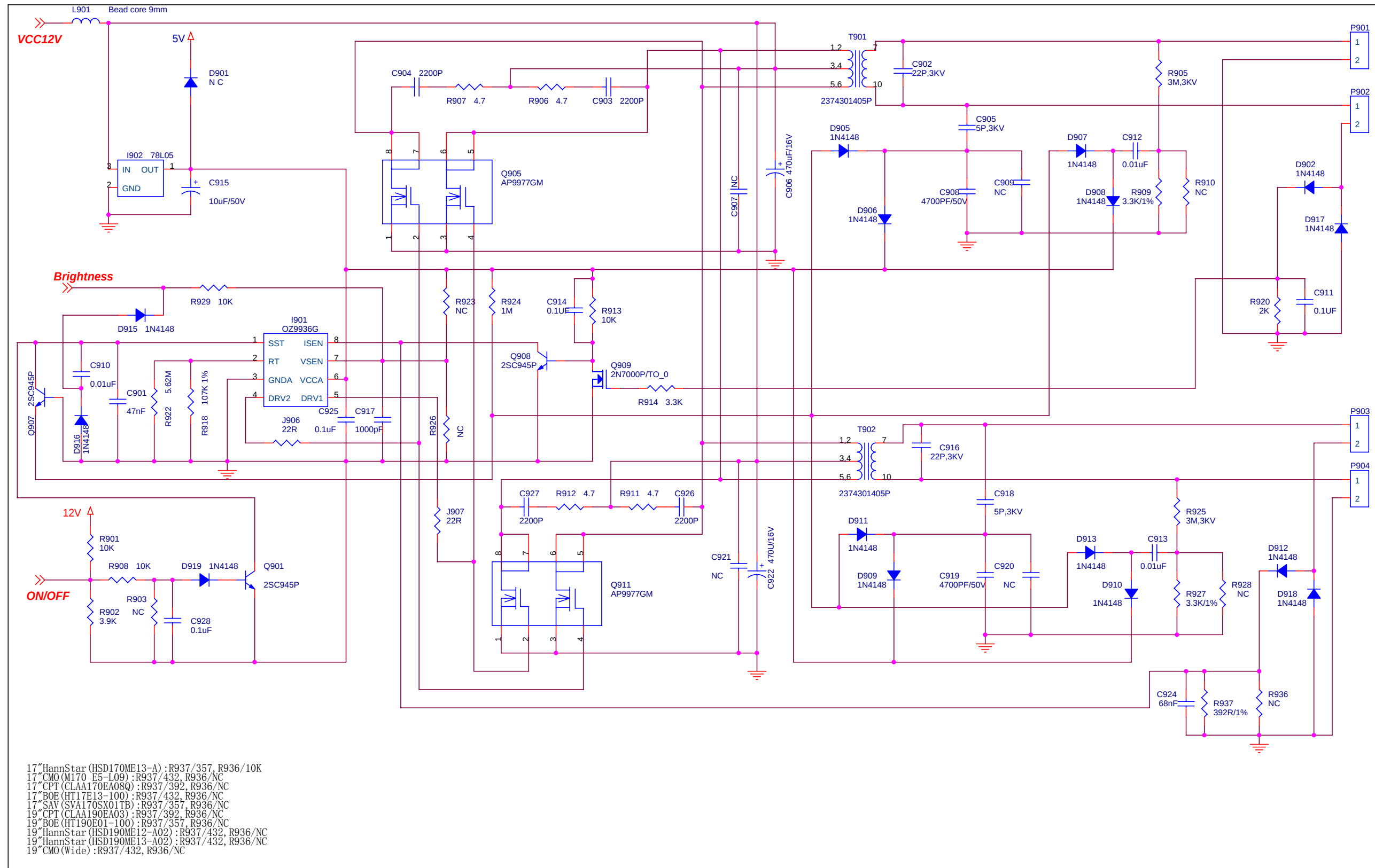


6.6. Audio

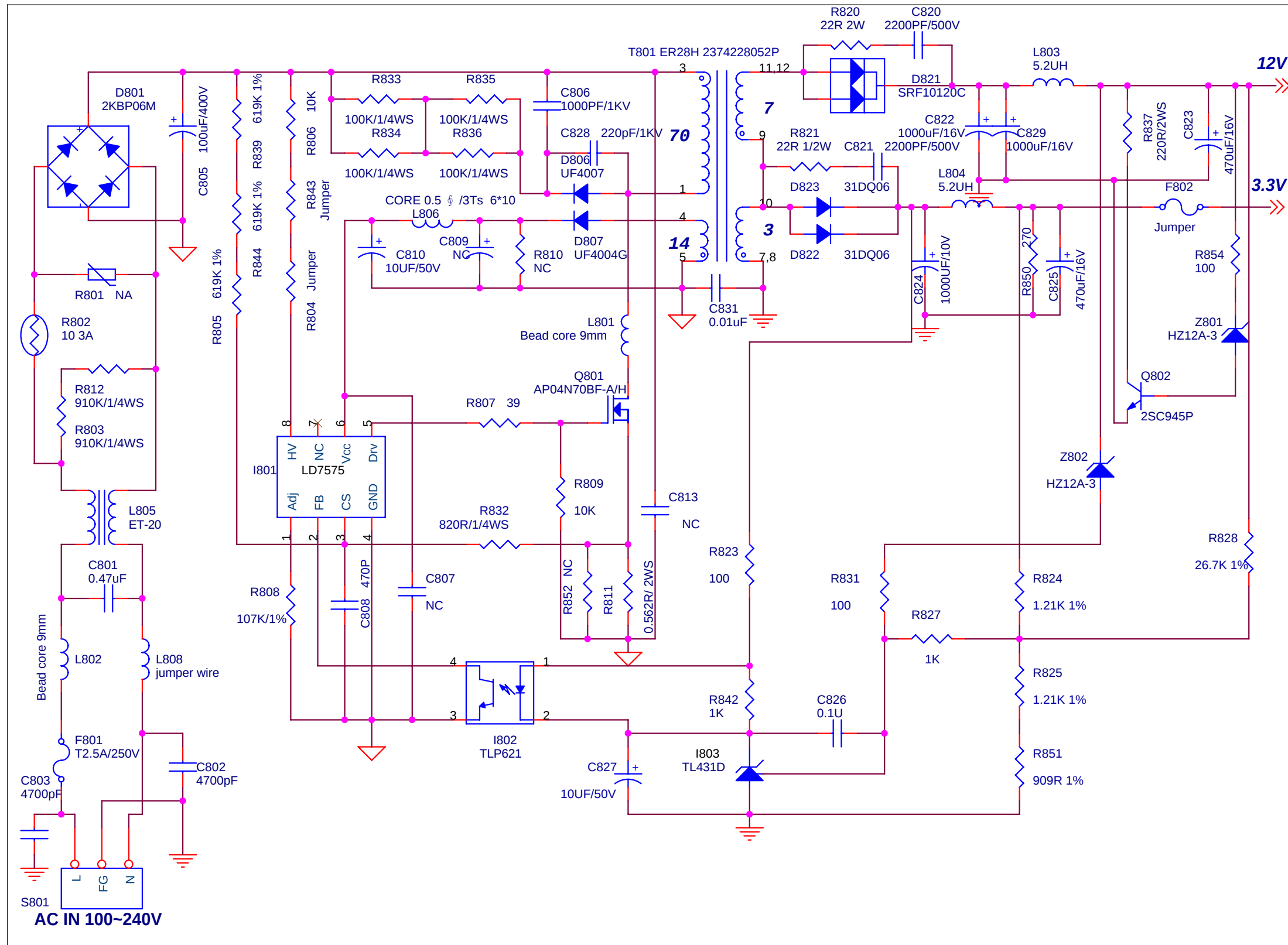


PLE1700S Service Manual

6.7. Inverter



6.8. Power



PLE1700S Service Manual

7. WORKING THEOREM

A. DC-DC CONVERTER

This brick convert is the 110-220AC input voltage to 12V AND 3.3V output for invert use and panel use and system controller use .

3.3V Out put at L804

VCC 12V In put at L803,F901

B. Scaling controller

The ADC is to convert RGB analog signal to digital signal that scaling chip can acknowledge. The HSYNC input receives a logic signal and provides the frequency reference for pixel clock generation.

The scaling IC is to converts the input signal ranging from VGA to SXGA into SXGA resolution that panel can acknowledge.

GENERAL DESCRIPTION

The TSUM57AK is total solution graphics processing IC for LCD monitors with panel resolutions up to SXGA. It is configured with a high-speed integrated triple-ADC/PLL, a high quality display processing engine, and an integrated output display interface that can support RSDS panel interface format. To further reduce system costs, the TSUM57AK also integrates intelligent power management control capability for green-mode requirements and spread-spectrum support for EMI management.

The TSUM57AK incorporates the world's first coherent oversampled RGB graphics ADC in a monitor controller system. The oversampling ADC samples the input RGB signals at a frequency that is much higher than the signal source pixel rate. This can preserve details in the video signal that ordinarily would be lost due to input signal jitter or bandwidth limitations in non-oversampled systems. The TSUM57AK also incorporates a new Dynamic Frame Rate (DFR) generator for the digital output video to the display panel that preserves the advantages of a fixed output clock rate, while eliminating the output end of frame short-line.

PIN DESCRIPTION

Analog Interface

Pin Name	Pin Type	Function	Pin
HSYNC0	Schmitt Trigger Input w/ 5V-tolerant	Analog HSYNC input	63
VSYNC0	Schmitt Trigger Input w/ 5V-tolerant	Analog VSYNC input	64
REFP		Internal ADC top de-coupling pin	62
REFM		Internal ADC bottom de-coupling pin	61
RIN0P	Analog Input	Analog red input	59
RIN0M	Analog Input	Reference ground for analog red input	58
SOGIN0	Analog Input	Sync-on-green input	57
GIN0P	Analog Input	Analog green input	56
GIN0M	Analog Input	Reference ground for analog green input	55
BIN0P	Analog Input	Analog blue input	54
BIN0M	Analog Input	Reference ground for analog blue input	53
REXT		External resistor 390 ohm to AVDD_DVI	51

DVI Interface

Pin Name	Pin Type	Function	Pin
R+	Input	DVI Input Channel + RED	39
R-	Input	DVI Input Channel – RED	40
G+	Input	DVI Input Channel + GREEN	42
G-	Input	DVI Input Channel – GREEN	43
B+	Input	DVI Input Channel + BLUE	45
B-	Input	DVI Input Channel – BLUE	46

PLE1700S Service Manual

CK+	Input	DVI Input Clock Pair +	48
CK-	Input	DVI Input Clock Pair -	49

Serial Flash Interface

Pin Name	Pin Type	Function	Pin
SDO	Input w/ 5V-Tolerant	SPI Flash Serial Data Output	70
CSZ	Output	SPI Flash Chip Select	71
SCK	Output	SPI Flash Serial Clock	72
SDI	Output	SPI Flash Serial Data Input	73

RSDS Interface

Pin Name	Pin Type	Function	Pin
CLKAP	Output	A-Link Positive RSDS Differential Clock Output	118
CLKAN	Output	A-Link Negative RSDS Differential Clock Output	119
CLKBP	Output	B-Link Positive RSDS Differential Clock Output	120
CLKBN	Output	B-Link Negative RSDS Differential Clock Output	121
BA[3:1]P	Output	A-Link Positive RSDS Differential Data Output	93, 91, 89
BA[3:1]N	Output	A-Link Negative RSDS Differential Data Output	94, 92, 90
GA[3:1]P	Output	A-Link Positive RSDS Differential Data Output	105, 100, 98
GA[3:1]N	Output	A-Link Negative RSDS Differential Data Output	106, 101, 99
RA[3:1]P	Output	A-Link Positive RSDS Differential Data Output	113, 111, 109
RA[3:1]N	Output	A-Link Negative RSDS Differential Data Output	114, 112, 110
BB[3:1]P	Output	B-Link Positive RSDS Differential Data Output	128, 126, 124
BB[3:1]N	Output	B-Link Negative RSDS Differential Data Output	1, 127, 125
GB[3:1]P	Output	B-Link Positive RSDS Differential Data Output	7, 5, 2
GB[3:1]N	Output	B-Link Negative RSDS Differential Data Output	8, 6, 3
RB[3:1]P	Output	B-Link Positive RSDS Differential Data Output	17, 15, 9
RB[3:1]N	Output	B-Link Negative RSDS Differential Data Output	18, 16, 10
GPO[6:0]	Output w/ Pull-down Resistor	TCON GPO[6:0]; 6mA driving strength programmable	82-88
OSP	Output w/ Pull-down Resistor	TCON "Odd" Channel Start Pulse; 6mA driving strength programmable	81
ESP	Output w/ Pull-down Resistor	TCON "Even" Channel Start Pulse; 6mA driving strength programmable	80

GPIO Interface

Pin Name	Pin Type	Function	Pin
GPIO_P06	I/O w/ 5V-tolerant	General Purpose Input/Output; 6/12mA programmable driving strength	27
GPIO_P07	I/O w/ 5V-tolerant	General Purpose Input/Output; 6/12mA programmable driving strength	28
PWM0/ GPIO_P26	I/O w/ 5V-tolerant	Pulse Width Modulation Output; 4mA driving strength/ General Purpose Input/Output; 4mA driving strength	29
GPIO_P13	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	30
GPIO_P14	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	31
GPIO_P15/ PWM0	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ Pulse Width Modulation Output; 4mA driving strength	69
GPIO_P16/ PWM2	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ Pulse Width Modulation Output; 4mA driving strength	35
GPIO_P23	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	74
GPIO_P22	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	75
GPIO_P11/ I2C_MDA	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/I2C Master Data	76

PLE1700S Service Manual

GPIO_P10/ I2C_MCL	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/I2C Master Clock	77
PWM2/ GPIO_P24	I/O w/ 5V-tolerant	Pulse Width Modulation Output; 4mA driving strength/ General Purpose Input/Output; 4mA driving strength	78
GPIO_P27/ PWM1	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ Pulse Width Modulation Output; 4mA driving strength	79
GPIO_P12	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	20
PWM1/ GPIO_P25	I/O w/ 5V-tolerant	Pulse Width Modulation Output; 4mA driving strength/ General Purpose Input/Output; 4mA driving strength	21
GPIO_P00/ SAR1	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ SAR ADC Input	23
GPIO_P01/ SAR2	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ SAR ADC Input	24
GPIO_P02/ SAR3	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength/ SAR ADC Input	25
GPIO_P03	I/O w/ 5V-tolerant	General Purpose Input/Output; 4mA driving strength	26

Misc. Interface

Pin Name	Pin Type	Function	Pin
BYPASS		For External Bypass Capacitor	4
VCTRL	Output	Regulator Control	11
RST	Input w/ 5V-Tolerant	Chip Reset; High Reset	19
RSTN	Input w/ 5V-Tolerant	Chip Reset; Low Reset	22
MODE[1:0]	Input	Chip Configuration Input MODE[1:0] Chip Operation 00 Normal Operation	104, 102
DDCA_SDA/ RS232_TX	I/O w/ 5V-tolerant	DDC Data for Analog Interface; 4mA driving strength/UART Transmitter/GPIO	65
DDCA_SCL/ RS232_RX	Input w/ 5V-Tolerant	DDC Clock for Analog Interface/ UART Receiver/GPIO	66
DDCD_SDA	I/O w/ 5V-tolerant	DDC Data for DVI interface; 4mA driving strength	36
DDCD_SCL	Input w/ 5V-Tolerant	DDC Clock for DVI Interface	37
XIN	Crystal Oscillator Input	Xin	32
XOUT	Crystal Oscillator Output	Xout	33

Power Pins

Pin Name	Pin Type	Function	Pin
AVDD_DVI	3.3V Power	DVI Power	44, 50
AVDD_ADC	3.3V Power	ADC Power	60
AVDD_MPLL	3.3V Power	MPLL Power	34
AVDD_PLL	3.3V Power	PLL Power	52
VDDP	3.3V Power	Digital Output Power	14, 67, 95, 103, 115
VDDC	1.8V Power	Digital Core Power	12, 68, 97, 117
GND	Ground	Ground	13, 38, 41, 47, 96, 116

No Connects

Pin Name	Pin Type	Function	Pin
NC		No connects	107, 108, 122, 123

PLE1700S Service Manual

INVERTER

In order to drive the CCFLs embedded in the panel module, there is a half bridge inverter to convert by the controller.

The input 12V up to hundreds of AC voltage output.

The inverter is formed by symmetric in order to drive the separate lamp modules.

The input stage consists of a PWM controller, half bridge inverter, and switching MOSFET to convert DC input into AC output.

The output stage consists of a tuning capacitor, coupling capacitor, transformer, push-pull MOSFET pair to boost AC output up to hundreds of voltage.

And one resistor is serial to lamp for output voltage feedback.

There are two signal to control the inverter which come from system.

Logic "high" level which send to I901 is turn on the inverter.

BRI signal control brightness by DC level which was integral from PWM signal.

AUDIO

General description

The TDA7496L is a stereo 2W+2W class AB

power amplifier assembled in the @ Powerdip

14+3+3 package, specially designed for high

quality sound, TV and Monitor applications.

Features of the TDA7496L include linear volume

control, Stand-by and mute functions

Ipeak Output Peak Current (internally limited) 0.7 0.9 A

Vin Input Signal 2.8 Vrms

GV Closed Loop Gain Vol Ctrl > 4.5V 28.5 30 31.5 dB

GvLine Monitor Out Gain Vol Ctrl > 4.5V; Zload > 30K . -1.5 0 1.5 dB

AMin VOL Attenuation at Minimum Volume Vol Ctrl < 0.5V 80 dB

BW 0.6 MHz

ABSOLUTE MAXIMUM RATINGS

Symbol Parameter Value Unit

VS DC Supply Voltage 26 V

VIN Maximum Input Voltage 8 Vpp

Ptot Total Power Dissipation (Tcase = 60°C) 6 W

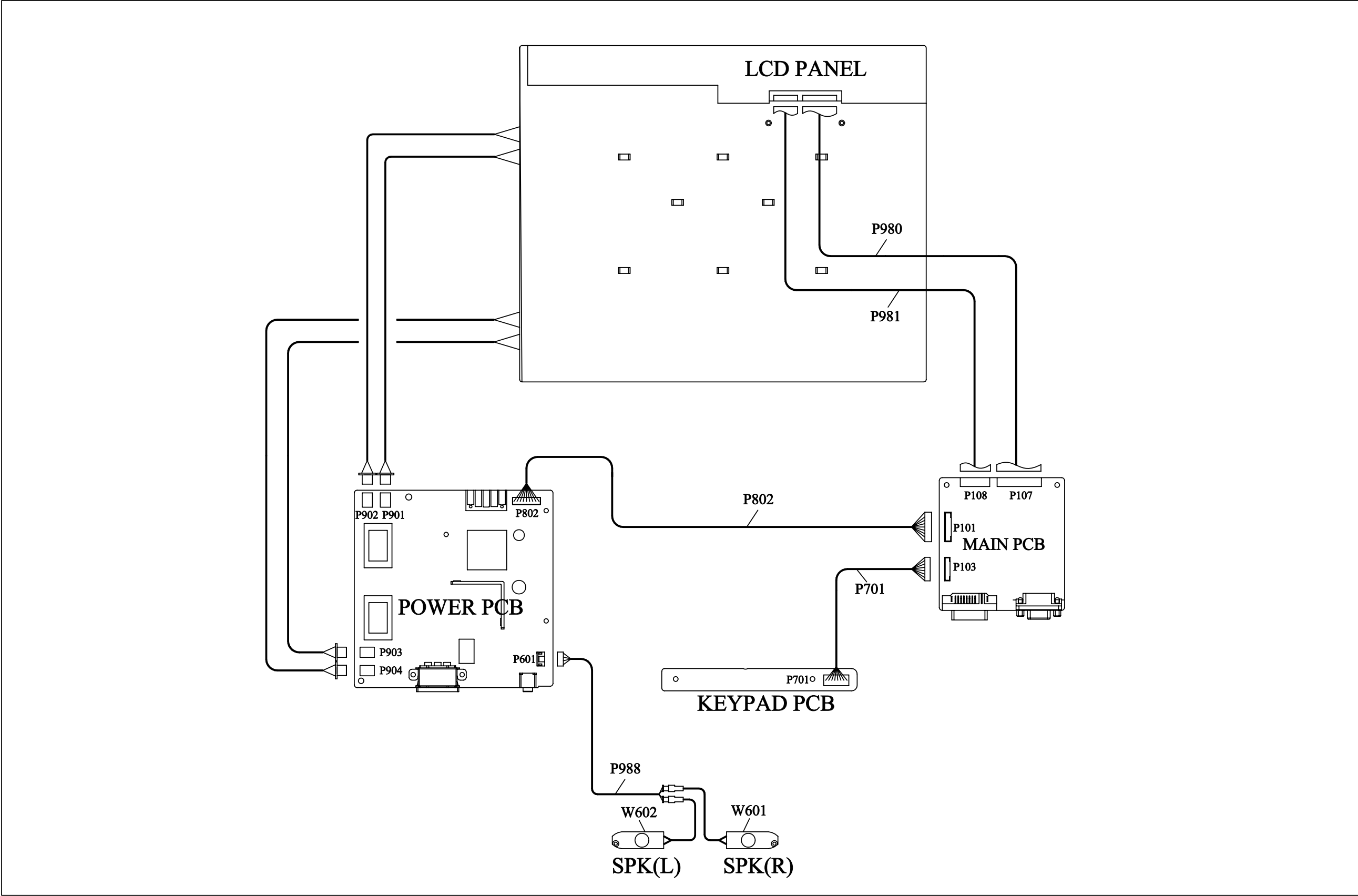
Tamb Ambient Operating Temperature 0 to 70 °C

Tstg, Tj Storage and Junction Temperature -40 to 150 °C

V6 Volume CTRL DC voltage 7 V

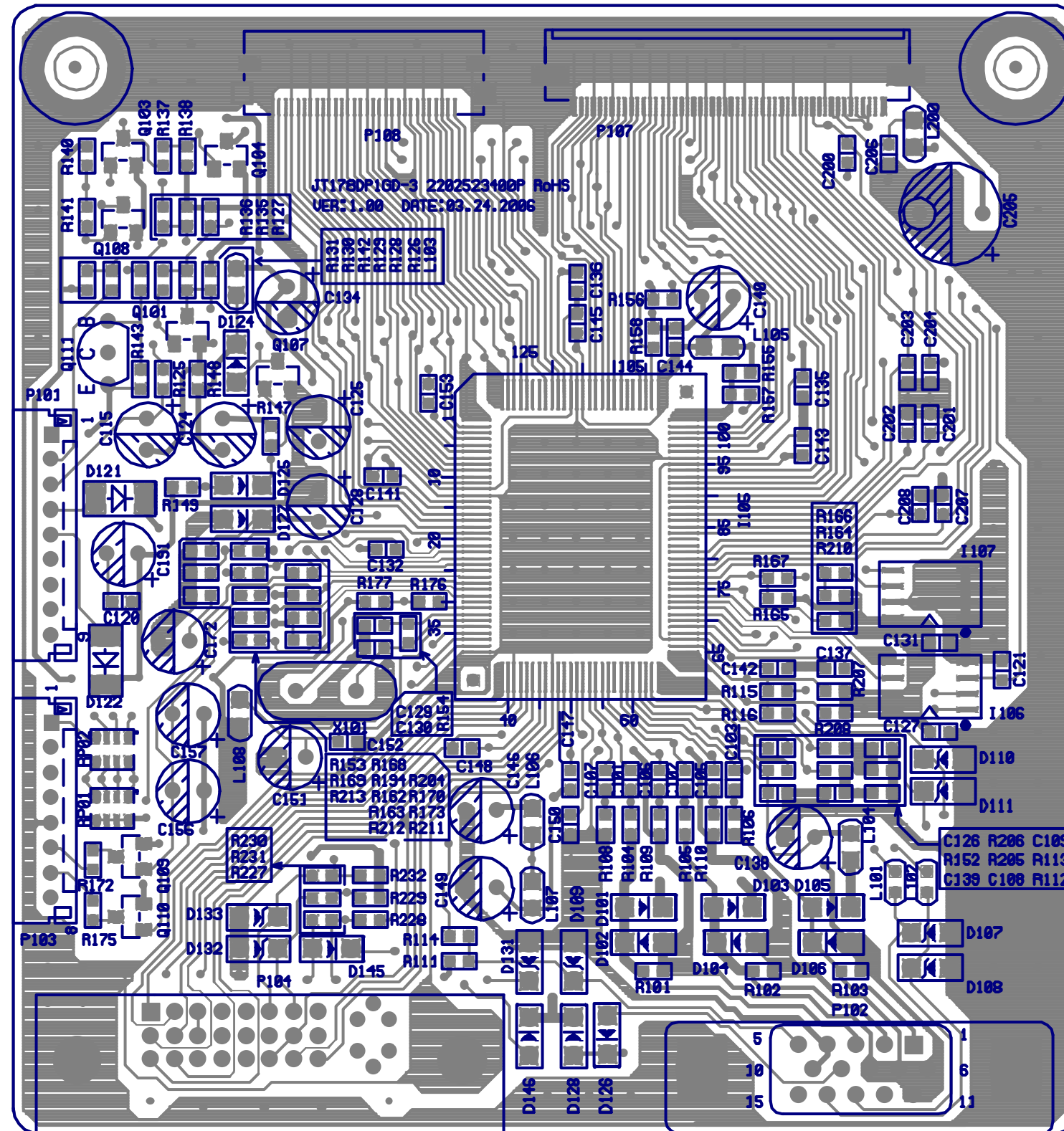
0 4 8 12 Area(cm2)

8. WIRING DIAGRAM

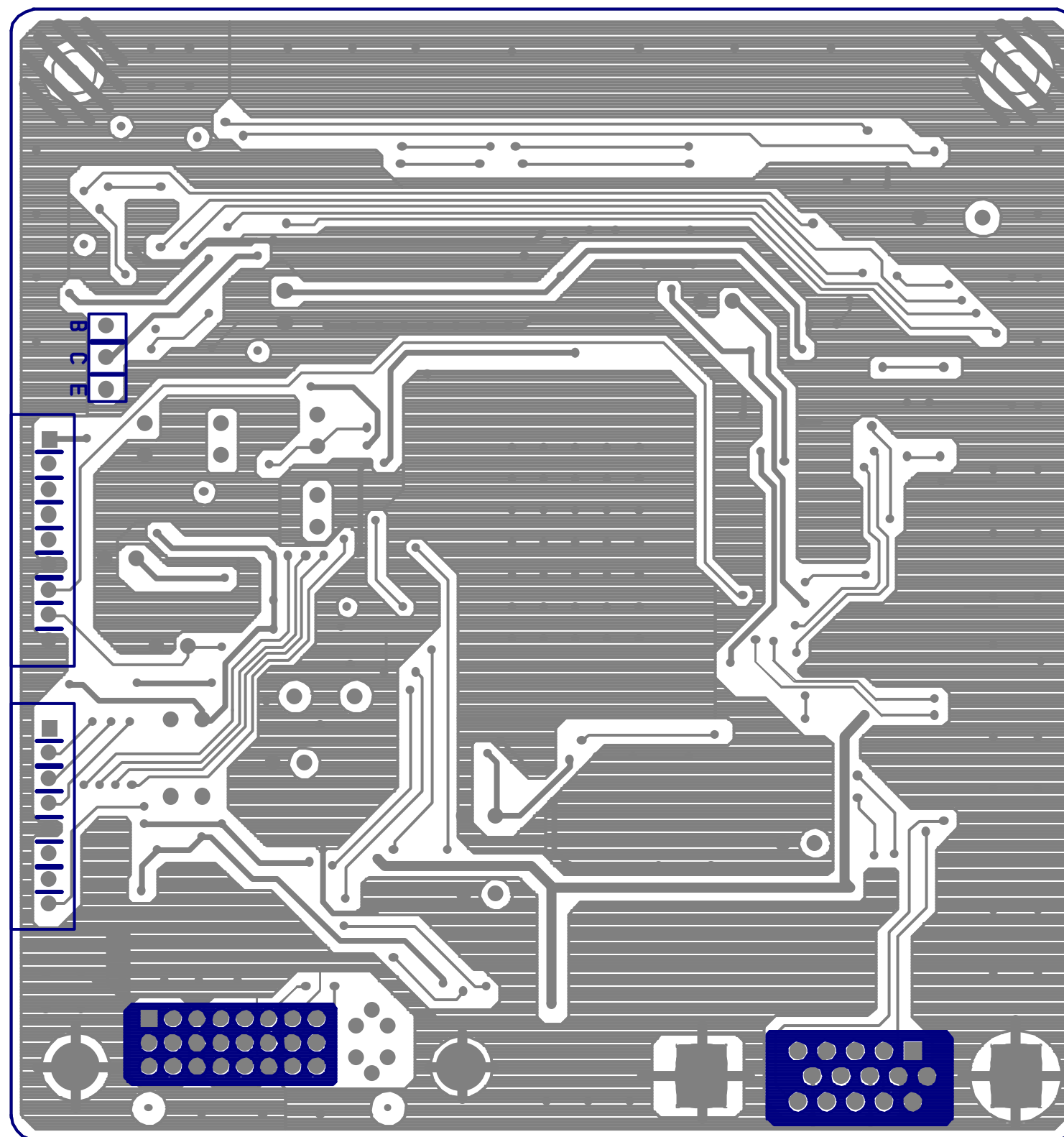


9. PCB LAYOUT

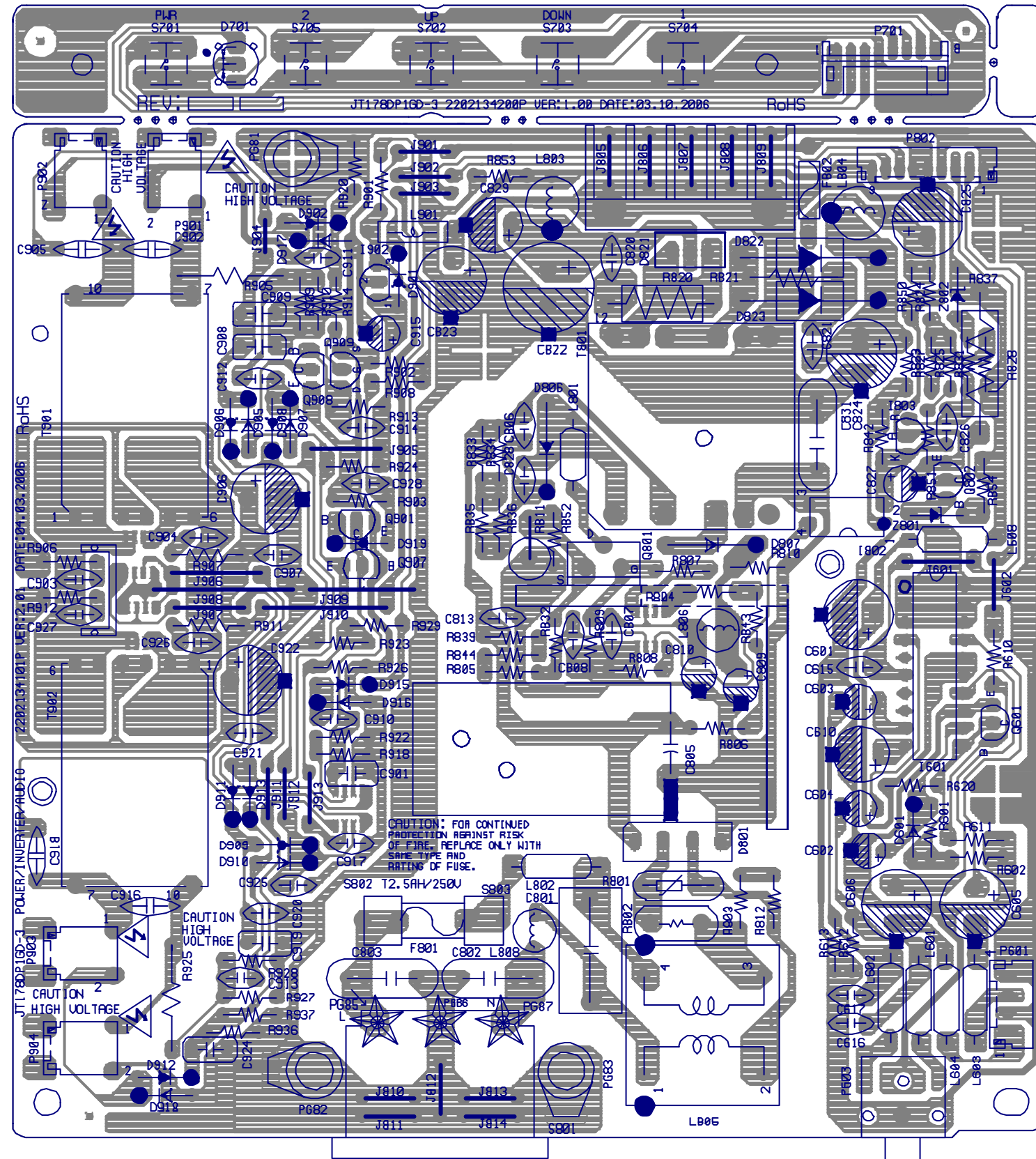
9.1. MAIN PCB TOP VIEW



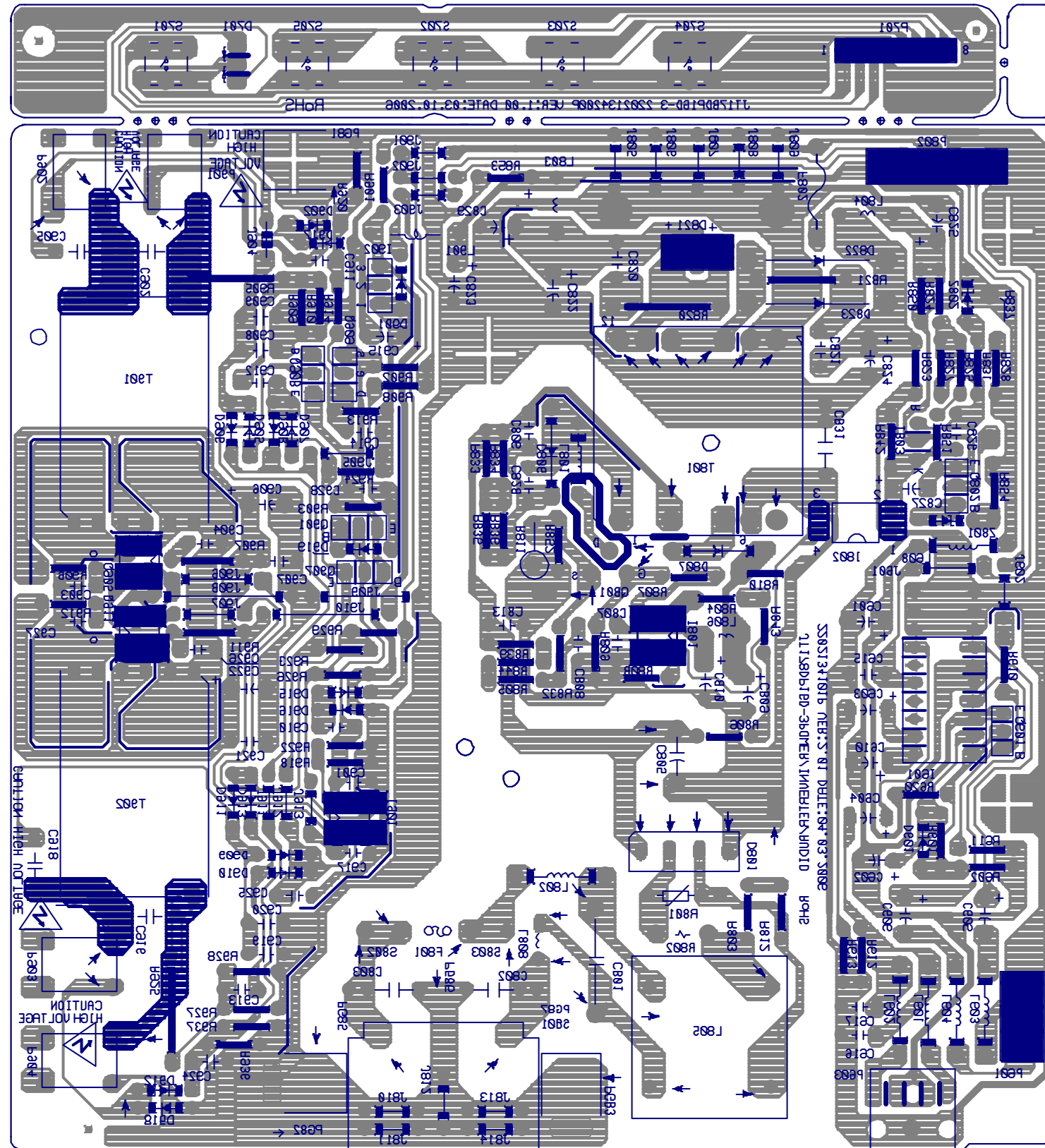
9.2. MAIN PCB BOTTOM VIEW



9.3. POWER & KEYPAD PCB TOP VIEW

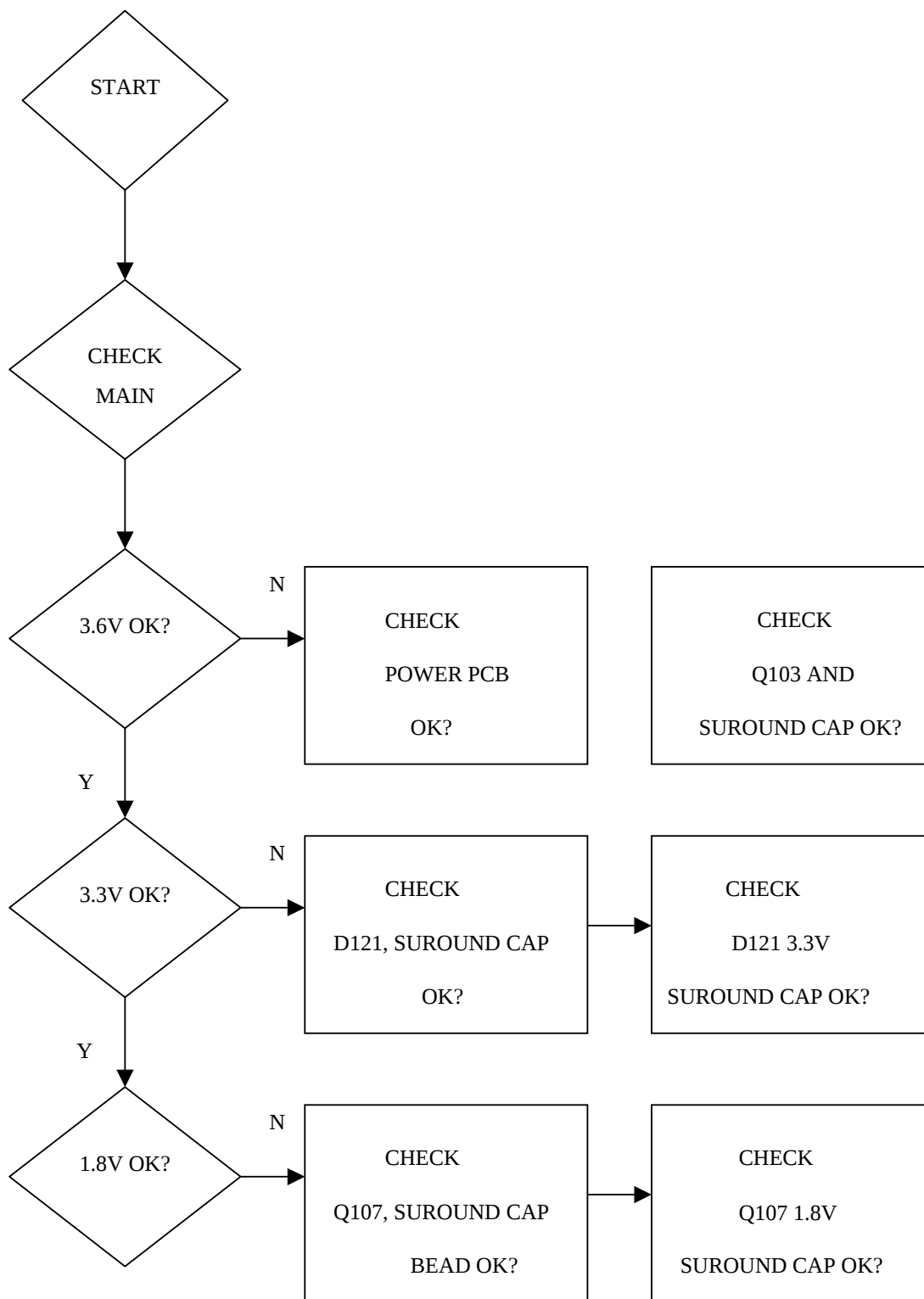


9.4. POWER & KEYPAD PCB BOTTOM VIEW



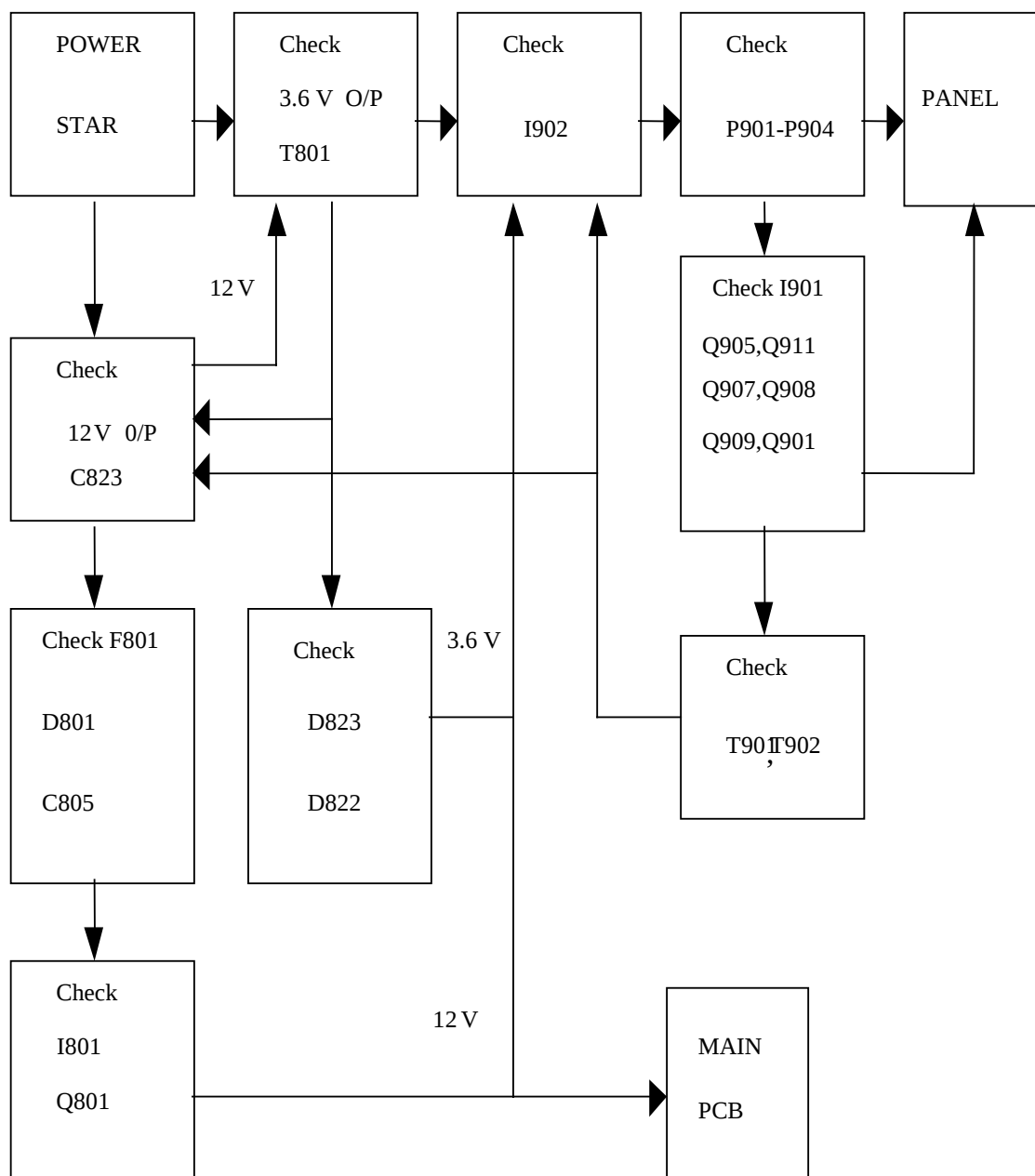
PLE1700S Service Manual

10.ROUBLE SHOOTING FLOW CHART



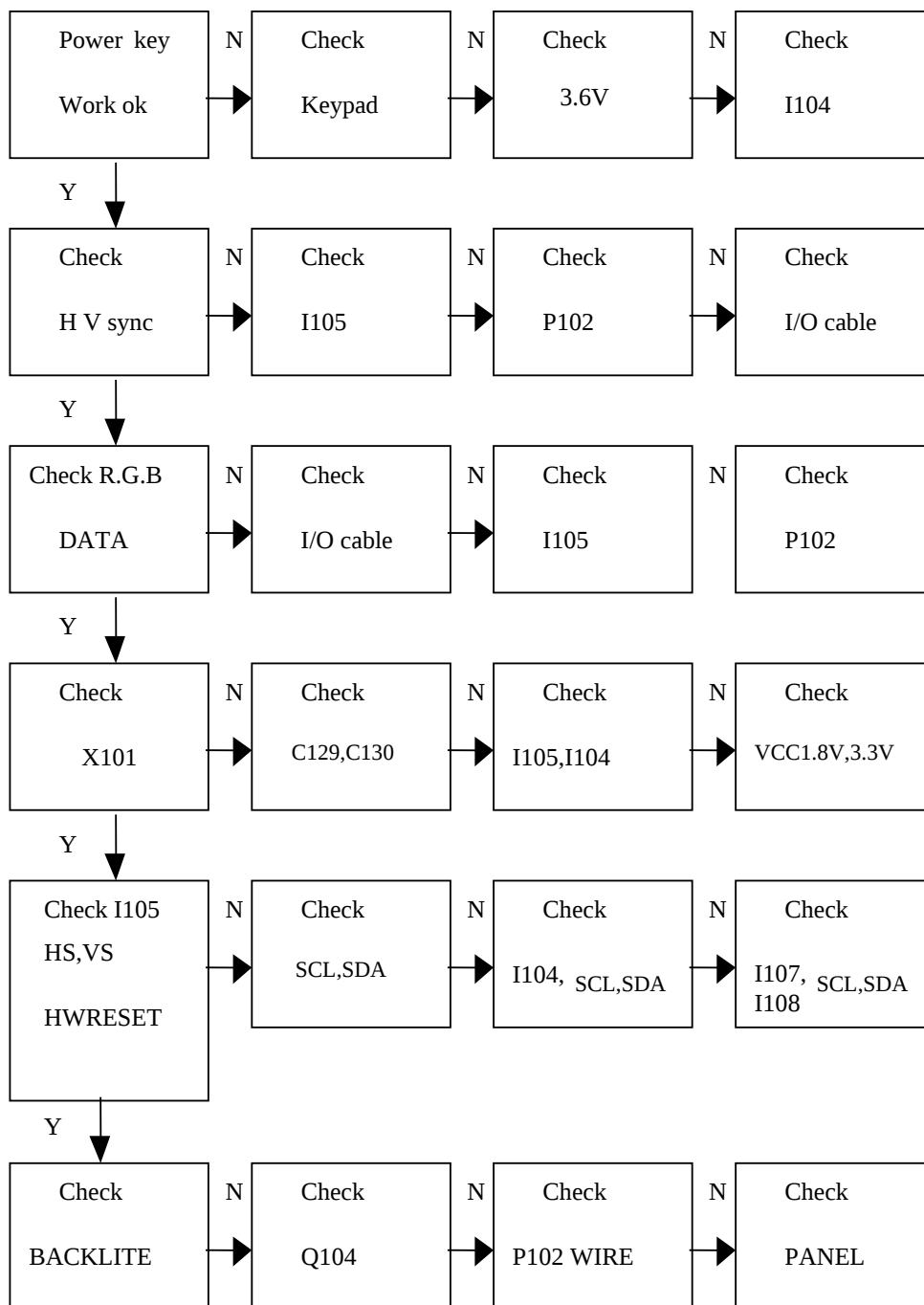
PLE1700S Service Manual

10.1. NO POWER



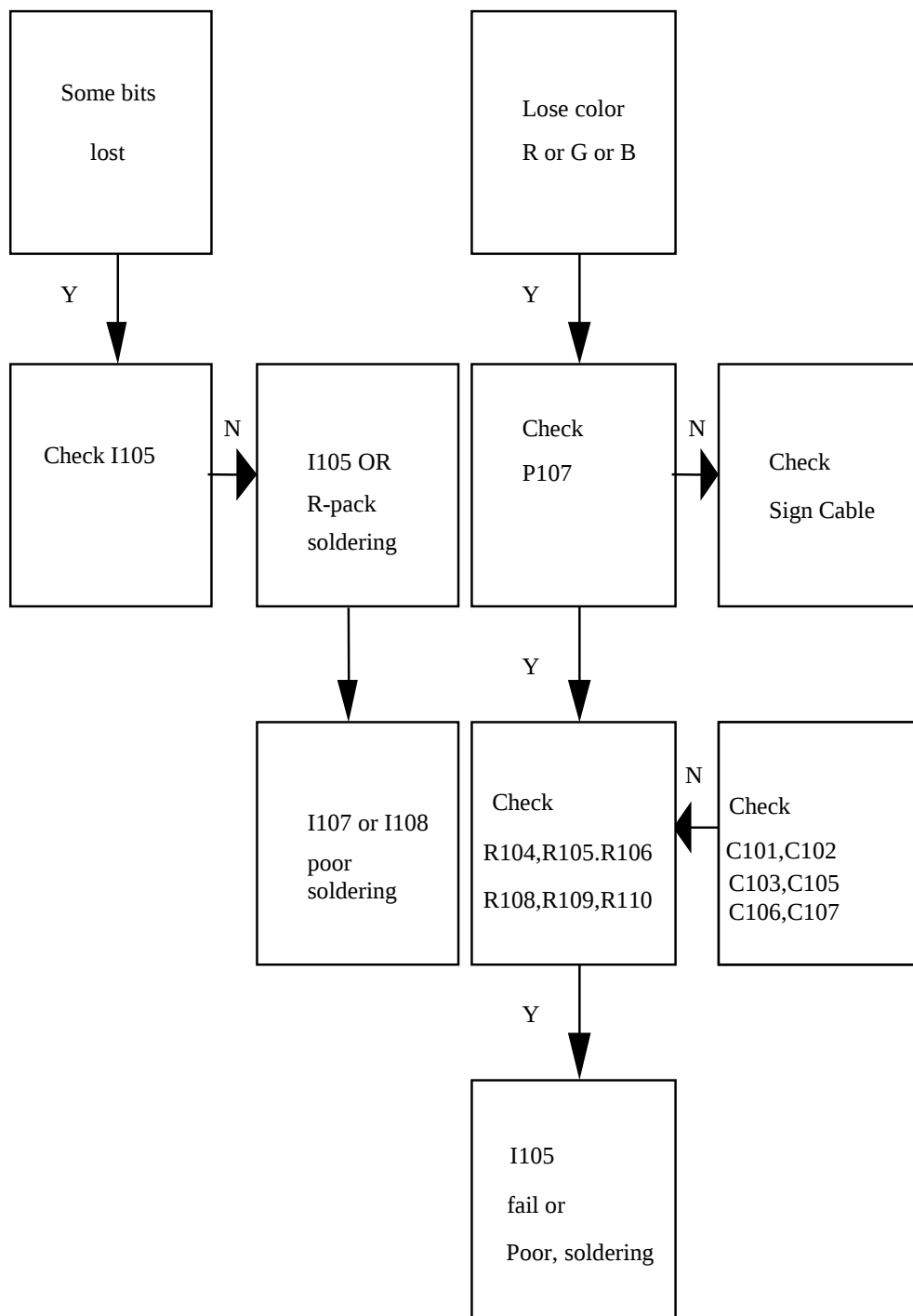
PLE1700S Service Manual

10.2. NO DISPLAY



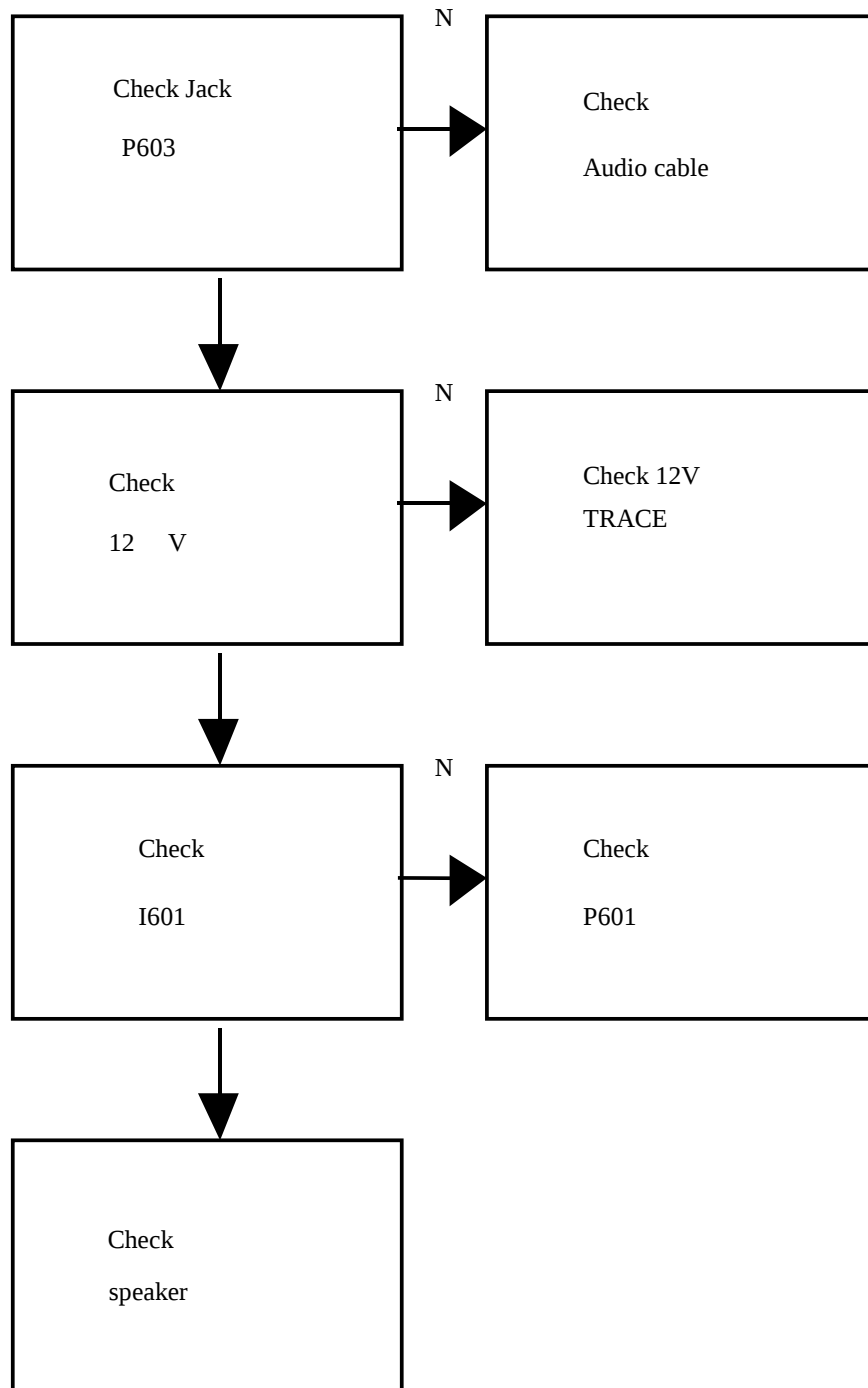
PLE1700S Service Manual

10.3 LOSE COLOR



PLE1700S Service Manual

10.4 NO AUDIO



PLE1700S Service Manual

11. ADJUSTMENT

11.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

11.2. MAIN ADJUSTMENTS

NO.	FUNCTION	DESIGNATION
1.	WHITE BALANCE	FUNCTION KEY
2.	GEOMETRY	FUNCTION KEY

11.3 ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

- (A). Power supply voltage:
AC 110/120V $\pm$ 10% 60 Hz $\pm$ 5%, AC 220/240V $\pm$ 10% 50 Hz $\pm$ 5%.
- (B). Warm up time:
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.
This is especially critical in color temperature and white balance adjustments.
- (C). Signals: reference the front detail specifications and timing table.
Video : reference the front detail specifications.

1. Adjustment of White Balance:

- A. TIMING: 1280x1024 64KHz/60Hz
- B. PATTERN: 5 BLOCKS.
- C. LCD MONITOR set to 1280x1024 80K/75Hz BURN IN and warm up over 30 minutes.
- D. CA110 color analyzer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- E. Power turn off, Press “▲” and “2” and turn on power at the same time after power LED is on, release “▲” and “2” key, Then press “1” key go to factory mode. (Fig.1)



(Fig.1)

(The data on this picture is a example only,the real one,please refer to your monitor.)

PLE1700S Service Manual

F. Adjust Color Temperature:

(1) EEPROM INIT(5BLOCKS):

Press “▼” key move cursor to EEPROM INIT, Press 2 key then monitor will INIT ADC value

(2) Press “▲” key move cursor to “White Balance”, Press 2 key do white balance adjustment.

(3) Press “▼” key move cursor to “Color Temperature Adjust”, Press 2 key, Then OSD will display Fig.2



(Fig.2)

(The data on this picture is a example only,the real one,please refer to your monitor.)

(4) Cool verify: move cursor to Cool Press 2 key,

Press “▼”, “▲” key adjust R.G.B value

$x=0.283 \pm 0.03$

$y=0.298 \pm 0.03$

Press 1 key return to Fig.2

(5) Normal verify: Repeat (4) press “▼”, “▲” move cursor to Normal press 2 key

$x=0.313 \pm 0.03$

$y=0.329 \pm 0.03$

$Y \geq 250 \text{ cd/m}^2$

(6) Warm verify: Repeat (4) press “▼”, “▲” move cursor to Warm press 2 key

$x=0.332 \pm 0.03$

$y=0.348 \pm 0.03$

(7) Press 1 key go back to Fig.2, Then press 1 key return to Fig.1, Power key OFF/ON quit factory mode.

G. Color Temperature & Luminance Verify:

BRIGHTNESS MAX, CONTRAST MAX

Cool: $x=0.283 \pm 0.03$ $y=0.298 \pm 0.03$

Normal: $x=0.313 \pm 0.03$ $y=0.329 \pm 0.03$ $Y \geq 250 \text{ cd/m}^2$

Warm: $x=0.332 \pm 0.03$ $y=0.348 \pm 0.03$

2. Geometry:

(a). Set cross-hatch pattern and preset timing as timing table listed.

(b). Change to each mode in turn and wait for the monitor finish auto-alignment and save process before change to next mode.

(c). Until all of modes are adjusted, exit OSD menu and press PWR OFF to exit factory mode.

PLE1700S Service Manual

12. ELECTRICAL PARTS LIST

When you place a parts order, be sure to indicate the following data on the order:

- Location No.
- Parts No.
- Description

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
MAIN P.C.BOARD					
C101		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C102		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C103		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C105		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C106		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C107		2346147396P	CAP,CHIP 125°C	CS 0603/X7R/50V	0.047u K
C108		2341122096P	CAP,CHIP 125°C	CS 0603/COG/50V	22p J
C109		2341122196P	CAP,CHIP 125°C	CS 0603/COG/50V	220p J
C120		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C121		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C124		2336647513P	CAP,MINI ELE 105°C	EC 4.7u/ 50V	4*7 P=2.5
C125		2336610513P	CAP,MINI ELE 105°C	EC 1u/ 50V	4*7 P=2.5
C126		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C127		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C128		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C129		2341122096P	CAP,CHIP 125°C	CS 0603/COG/50V	22p J
C130		2341122096P	CAP,CHIP 125°C	CS 0603/COG/50V	22p J
C131		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C132		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C134		2336647513P	CAP,MINI ELE 105°C	EC 4.7u/ 50V	4*7 P=2.5
C135		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C136		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C137		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C138		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C139		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C140		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C141		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C142		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C143		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C144		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C145		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C146		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C147		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C148		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C149		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C150		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C151		2336310613P	CAP,MINI ELE 105°C	EC 10u/ 16V	4*7 P=2.5
C152		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C153		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C156		2336347613P	CAP,MINI ELE 105°C	EC 47u/ 16V	5*7 P=2.5
C157		2336347613P	CAP,MINI ELE 105°C	EC 47u/ 16V	5*7 P=2.5
C172		2336347613P	CAP,MINI ELE 105°C	EC 47u/ 16V	5*7 P=2.5
C191		2336347613P	CAP,MINI ELE 105°C	EC 47u/ 16V	5*7 P=2.5
C199		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C205		2336322791P	CAP,MINI ELE 105°C	EC 220u/ 16V	8*7 P=5.0
C206		2346410496P	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
D101	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D101	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D101	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D101	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D102	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D102	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D102	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D102	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D103	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
D103	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D103	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D103	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D104	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D104	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D104	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D104	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D105	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D105	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D105	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D105	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D106	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D106	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D106	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D106	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D107	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D107	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D107	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D107	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D108	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D108	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D108	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D108	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D109	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D109	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D109	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D109	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D110	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D110	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D110	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D110	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D111	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D111	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D111	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D111	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D121	RA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC	PEC
D121	RB	2364302796P	DIODE,SCHOTTKY(SMD)	EC10QS031	NI
D122	RA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC	PEC
D122	RB	2364302796P	DIODE,SCHOTTKY(SMD)	EC10QS031	NI
D124	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D124	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D124	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D124	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D125	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D125	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D125	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D125	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D126	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D126	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D126	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D126	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D127	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D127	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D127	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D127	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D128	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D128	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D128	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D128	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D131	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D131	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D131	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS
D131	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34	ROHM
D132	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C	PHILIPS
D132	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V	VISHAY
D132	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C	PHILIPS

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
D132	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34 ROHM	
D133	RA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 5% SOD-80C PHILIPS	
D133	RB	2364505616P	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2-6.0V VISHAY	
D133	RC	2364505636P	DIODE,ZENER SMD	BZV55-B5V6 2% SOD-80C PHILIPS	
D133	RD	2364500396P	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V LL-34 ROHM	
D145	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D145	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D145	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D145	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D146	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D146	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D146	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D146	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D147	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D147	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D147	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D147	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
D148		2253400096P	RES CHIP 1/4W	RC 1206 1/4 W 0 ohm	J
D149	RA	2364600496P	DIODE,SWITCH SMD	MM4148 SOD-80	GRANDE
D149	RB	2364200896P	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS
D149	RC	2363600696P	DIODE,SWITCH	RLS4148-T11 SOD-80	ROHM
D149	RD	2364601396P	DIODE,SWITCH SMD	1N4148W-7-F SOD-123	DIODES
I105		2365425486P	DIGITAL IC	TSUM57AK-LF PQFP-128	Mstar
I106	RA	2365106196P	MEMORY IC (FLASH)	PM25LV512SCE SO-8	PMC
I106	RB	2365106696P	MEMORY IC (FLASH)	PS25LV512-33SCE SOIC-8	Mstar
I107	RA	2365915896P	IC,DIGITAL SMD	24LC16BT/SN SO-8	MICROCHIP
I107	RB	2365100996P	MEMORY IC	AT24C16AN-10SU-2.7 SO-8	AMTEL
I107	RC	2365106396P	MEMORY IC (EEPROM)	M24C16-WMN6TP SO-8	ST
I108		2365911696P	IC,DIGITAL SMD	24LC02B/SN SOIC-8	MICROCHIP
L101		2253275096P	RES CHIP 1/10W	RC 0603 1/10W 75 ohm	J
L102		2253210196P	RES CHIP 1/10W	RC 0603 1/10W 100 ohm	J
L103		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L104		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L105		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L106		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L107		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L108		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
L200		2379820196P	BEAD,HI-IMPEDANCE	Z= 200 ohm(200MHZ~) 0805	200mA
P101		2404371008P	CONNECTOR	JST PH 9P TOP P=2.0 OR EQUAL	
P102		2407430900P	SOCKET	DHSB-15FTF7 BLUE(661C)	LEOCO
P103		2404371007P	CONNECTOR	JST PH 8P TOP P=2.0 OR EQUAL	
P104	RA	2404381101P	CONNECTOR	74320-4004 DVI-D	MOLEX
P104	RB	2404381104P	CONNECTOR	QH11121-FP0 DVI-D	FOXCONN
P104	RC	2404381106P	CONNECTOR	2DS-0341-001 DVI-D	S.E
P104	RD	2404381107P	CONNECTOR	CUO72SAHDG DVI-D	CVILUX
P107		2407630250P	SOCKET,SMD	6240-50-0R5P 0.5*50P	KYOCERA
P108	RA	2407630330P	SOCKET,SMD	2206BL11230RLP 0.5*30P	FARNCON
P108	RB	2407630230P	SOCKET,SMD	6240-30-0R5P 0.5*30P	KYOCERA
Q103	RA	2360301296P	XISTOR,NPN R SMD	MMBT3904-F SOT23	DIODES
Q103	RB	2360300896P	XISTOR,NPN R SMD	MMBT3904K SOT-23	FAIRCHILD
Q104	RA	2360501396P	FET,P-CH SMD	AP2305GN SOT23	APEC
Q104	RB	2360502196P	FET,P-CH SMD	STS2301 SOT-23	SamHop
Q107		2360302296P	XISTOR,NPN R SMD	MMBT2907A SOT-23	DIODES
Q108	RA	2360301296P	XISTOR,NPN R SMD	MMBT3904-F SOT23	DIODES
Q108	RB	2360300896P	XISTOR,NPN R SMD	MMBT3904K SOT-23	FAIRCHILD
Q109	RA	2360100596P	XISTOR,PNP R SMD	MMBT3906-NL SOT23	FAIRCHILD
Q109	RB	2360100696P	XISTOR,PNP R SMD	PMBS3906 SOT-23	PHILIPS
Q109	RC	2360100796P	XISTOR,PNP R SMD	MMBT3906-F SOT-23	DIODES
Q110	RA	2360100596P	XISTOR,PNP R SMD	MMBT3906-NL SOT23	FAIRCHILD
Q110	RB	2360100696P	XISTOR,PNP R SMD	PMBS3906 SOT-23	PHILIPS
Q110	RC	2360100796P	XISTOR,PNP R SMD	MMBT3906-F SOT-23	DIODES
Q111		2361111191P	XISTOR,PNP R	2SA1020(Y) TO-92	TOSHIBA
R101		2251275096P	RES,CHIP 1/10	RC 0603 1/10W 75 ohm	F
R102		2251275096P	RES,CHIP 1/10	RC 0603 1/10W 75 ohm	F
R103		2251275096P	RES,CHIP 1/10	RC 0603 1/10W 75 ohm	F
R104		2253256096P	RES CHIP 1/10W	RC 0603 1/10W 56 ohm	J

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
R105		2253256096P	RES CHIP 1/10W	RC 0603 1/10W	56 ohm J
R106		2253256096P	RES CHIP 1/10W	RC 0603 1/10W	56 ohm J
R108		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R109		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R110		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R111		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R112		2253222296P	RES CHIP 1/10W	RC 0603 1/10W	2.2Kohm J
R113		2253222296P	RES CHIP 1/10W	RC 0603 1/10W	2.2Kohm J
R114		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R115		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R116		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R125		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R127		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R128		2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J
R130		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R131		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R135		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R136		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R137		2253222196P	RES CHIP 1/10W	RC 0603 1/10W	220 ohm J
R138		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R140		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R141		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R142		2253227296P	RES CHIP 1/10W	RC 0603 1/10W	2.7Kohm J
R143		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R147		2253251096P	RES CHIP 1/10W	RC 0603 1/10W	51 ohm J
R148		2253220296P	RES CHIP 1/10W	RC 0603 1/10W	2.0Kohm J
R149		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R152		2251239206P	RES,CHIP 1/10	RC 0603 1/10W	392 ohm F
R153		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R154		2253210596P	RES CHIP 1/10W	RC 0603 1/10W	1.0Mohm J
R157		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R158		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R162		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R163		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R164		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R165		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R166		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R167		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R168		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R169		2253212396P	RES CHIP 1/10W	RC 0603 1/10W	12Kohm J
R170		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R172		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R173		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R175		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R176		2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J
R194		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R204		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R205		2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J
R206		2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J
R207		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R208		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R210		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R211		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R212		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R213		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R227		2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J
R228		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R230		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R231		2253210196P	RES CHIP 1/10W	RC 0603 1/10W	100 ohm J
R233		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R234		2253247296P	RES CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
RP01		2259210308P	RES,CHIP NETWORKS	8P4R 1/16W	10Kohm J
RP02		2259210108P	RES,CHIP NETWORKS	8P4R 1/16W	100 ohm J
U101		2202523401P	PCB MULTILAYER	178DP1GP-3 M/B FR4*2 90*85 2.0	
X101		2369102901P	XTAL,OSC	14.31818MHZ/49US	0.1mW/30PF

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
POWER P.C.BOARD					
C601		2335310841P	CAP,Ele Low Esr 105°C	EC 1000u/ 16V	10*16 P=5.0
C602		2333322691P	CAP,ELE 105°C	EC 22u/ 16V	5*11 P=5.0
C603		2333610591P	CAP ELE 105°C	EC 1u/ 50V	5*11 P=5.0
C604		2333610591P	CAP ELE 105°C	EC 1u/ 50V	5*11 P=5.0
C605		2333347791P	CAP ELE 105°C	EC 470u/ 16V	10*12.5 P=5.0
C606		2333347791P	CAP ELE 105°C	EC 470u/ 16V	10*12.5 P=5.0
C610		2333322791P	CAP ELE 105°C	EC 220u/ 16V	8*11 P=5.0
C615		2281410491P	CAP CER	CC 0.1u/ 50VY5V	P=5.0 Z
C801	RA	2300947401P	CAP,MTL MINI	X2 0.47u/275V	P=15.0 M
C801	RB	2300947481P	X CAP MINI	X2 0.47u/275V	P=15.0 K
C802		2287247212P	CAP CER	Y2 4700p/250VY5V	P=10.0 M
C803		2287247212P	CAP CER	Y2 4700p/250VY5V	P=10.0 M
C805		2357510708P	EC Hi-Ripple 105C 400V	EC 100u/400V	18*32 P=7.5
C806		2284110291P	CAP CER	CC 1000P/1KVX7R	P=5.0 K
C808		2281147191P	CAP CER	CC 470pF/50V	P=5.0 K
C810		2333610691P	CAP ELE 105°C	EC 10u/ 50V	5*11 P=5.0
C820		2283322291P	CAP CER 125°C	CC 2200p/500VX7R	P=5.0 K
C821		2283322291P	CAP CER 125°C	CC 2200p/500VX7R	P=5.0 K
C822		2336010811P	HI-Life Low Esr Ele Cap	EC 1000u/ 16V	10*16 P=5.0
C823		2335347773P	CAP,Ele Low Esr 105°C (6000HR)	EC 470u/ 16V	10*13 P=5.0
C824		2330006501P	CAP ELE SPECIAL	EC 1000u/ 10V	8*20 P=3.5
C825		2335347773P	CAP,Ele Low Esr 105°C (6000HR)	EC 470u/ 16V	10*13 P=5.0
C826		2281110491P	CAP CER	CC 0.1u/50V (Y5P)	P=5.0 K
C827		2333610691P	CAP ELE 105°C	EC 10u/ 50V	5*11 P=5.0
C828		2284122191P	CAP CER	CC 220pF/1KV	P=5.0 K
C829		2336010811P	HI-Life Low Esr Ele Cap	EC 1000u/ 16V	10*16 P=5.0
C831		2287210300P	CAP CER	Y2 0.01uF/250V	P=10.0 M
C901		2302047391P	CAP,MTL	MEF 0.047uF/50V	P=5.0 J
C902		2275422001P	CAP CER	TC 22P/3KVSL	P=7.5 J
C903		2284022291P	CAP CER	CC 2200p/50VX7R	P=5.0 K
C904		2284022291P	CAP CER	CC 2200p/50VX7R	P=5.0 K
C905		2275450901P	CAP CER	TC 5P/3KVSL	P=7.5 J
C906		2335347773P	CAP,Ele Low Esr 105°C (6000HR)	EC 470u/ 16V	10*13 P=5.0
C908		2302047291P	CAP,MTL	MEF 4700pF/50V	P=5.0 J
C910		2284010391P	CAP CER	CC 0.01u/50VX7R	P=5.0 K
C911		2281110491P	CAP CER	CC 0.1u/50V (Y5P)	P=5.0 K
C912		2284010391P	CAP CER	CC 0.01u/50VX7R	P=5.0 K
C913		2284010391P	CAP CER	CC 0.01u/50VX7R	P=5.0 K
C914		2281110491P	CAP CER	CC 0.1u/50V (Y5P)	P=5.0 K
C915		2333610691P	CAP ELE 105°C	EC 10u/ 50V	5*11 P=5.0
C916		2275422001P	CAP CER	TC 22P/3KVSL	P=7.5 J
C917		2284010291P	CAP CER	CC 1000p/50VX7R	P=5.0 K
C918		2275450901P	CAP CER	TC 5P/3KVSL	P=7.5 J
C919		2302047291P	CAP,MTL	MEF 4700pF/50V	P=5.0 J
C922		2335347773P	CAP,Ele Low Esr 105°C (6000HR)	EC 470u/ 16V	10*13 P=5.0
C924		2302068391P	CAP,MTL	MEF 0.068u/50V	P=5.0 J
C925		2281110491P	CAP CER	CC 0.1u/50V (Y5P)	P=5.0 K
C926		2284022291P	CAP CER	CC 2200p/50VX7R	P=5.0 K
C927		2284022291P	CAP CER	CC 2200p/50VX7R	P=5.0 K
C928		2281110491P	CAP CER	CC 0.1u/50V (Y5P)	P=5.0 K
D601	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35	WILLAS
D601	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35	FAIRCHILD
D601	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35	TSC
D701		2363703891P	LED	3 \$ GRN/YEL	
D801	RA	2368501800P	RECT,BRIDGE	2KBP06M 600V/2A	PEC
D801	RB	2368502800P	RECT,BRIDGE	2KBP06M(LF) 600V/2A	MOSPEC
D806	RA	2363231995P	DIODE,RECT	UF4007 DO-41 1000V/1A	PEC
D806	RB	2363234995P	DIODE,RECT	UF4007 DO-41	MOSPEC
D807	RA	2363220395P	DIODE,RECT	UF4004G DO-41	PEC
D807	RB	2363235195P	DIODE,RECT	UPG10G DO-204AL	ZOWIE
D821	RA	2363303900P	DIODE,SCHOTTKY	GMR10H125C TO-220AB	GAMMA
D821	RB	2363303700P	DIODE,SCHOTTKY	GMR10H100C TO-220AB	GAMMA
D821	RC	2363303300P	DIODE,SCHOTTKY	FCH10U10 TO-220AB	NI

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
D822	RA	2363300212P	DIODE,SCHOTTKY	31DQ06FC 60V/1.6A H=21.4 NI	
D822	RB	2363234012P	DIODE,RECT	SR306(LF) DO-201AD MOSPEC	
D823	RA	2363300212P	DIODE,SCHOTTKY	31DQ06FC 60V/1.6A H=21.4 NI	
D823	RB	2363234012P	DIODE,RECT	SR306(LF) DO-201AD MOSPEC	
D902	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D902	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D902	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D905	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D905	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D905	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D906	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D906	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D906	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D907	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D907	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D907	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D908	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D908	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D908	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D909	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D909	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D909	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D910	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D910	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D910	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D911	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D911	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D911	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D912	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D912	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D912	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D913	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D913	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D913	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D915	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D915	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D915	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D916	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D916	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D916	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D917	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D917	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D917	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D918	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D918	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D918	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
D919	RA	2363600195P	DIODE,SWITCH	1N4148 DO-35 WILLAS	
D919	RB	2363601795P	DIODE,SWITCH	1N4148TA_NL DO-35 FAIRCHILD	
D919	RC	2363601895P	DIODE,SWITCH	1N4148 DO-35 TSC	
F801	RA	2213125207P	FUSE	21502.5(2.5A) LITTEL	
F801	RB	2213125211P	FUSE	FUSE 2.5A/250V SG501302.5 PICO	
F802		2428106125P	JUMPER	§ 0.6*12.5mm	
I601	RA	2365335280P	LINEAR IC	GMA7496L-D20 DIP-20 GAMMA	
I601	RB	2365329700P	LINEAR IC	TDA7496L DIP-20 ST	
I801		2365335266P	LINEAR IC	LD7575PS SOP-8 Leadtrend	
I802	RA	2362401800P	PHOTO COUPLR	TLP621 TOSHIBA	
I802	RB	2362402300P	PHOTO COUPLR	TLP421 DIP4 TOSHIBA	
I803	RA	2365328191P	LINEAR IC	AP431VLA TO-92 ATC	
I803	RB	2365319391P	LINEAR IC	TL431CLPRE3 TO-92 TI	
I803	RC	2365321991P	LINEAR IC	KA431AZTA TO-92 FAIRCHILD	
I803	RD	2365327691P	LINEAR IC	CM431GDCN TO-92 CHAMPION	
I901		2365335236P	LINEAR IC	OZ9936GN SOIC-8 O2-MICRO	
I902	RA	2365330291P	LINEAR IC	KA78L05AZ TO-92 FAIRCHILD	
I902	RB	2365330591P	LINEAR IC	L78L05ACZ-A/P TO-92 ST	
J906		2233422095P	RES,CBN 1/4 S	RD 1/4WS 22 ohm J	
J907		2233422095P	RES,CBN 1/4 S	RD 1/4WS 22 ohm J	

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
L601		2379101495P	FERRITE CORE	3.5*9*0.8	
L602		2379101495P	FERRITE CORE	3.5*9*0.8	
L603		2379101495P	FERRITE CORE	3.5*9*0.8	
L604		2379101495P	FERRITE CORE	3.5*9*0.8	
L608		2379101495P	FERRITE CORE	3.5*9*0.8	
L801		2379101595P	FERRITE CORE	3.5*0.8*4.5	
L802		2379101495P	FERRITE CORE	3.5*9*0.8	
L803		2371150903P	COIL,CHOKE	5uH 7.8*10 2UEW 0.65mm/12.5Ts	
L804		2371150903P	COIL,CHOKE	5uH 7.8*10 2UEW 0.65mm/12.5Ts	
L805	RA	2371160302P	COIL,CHOKE	ET-20 60mH 0.26mm/57Ts LI TAI	
L805	RB	2371160301P	COIL,CHOKE	ET-20 60mH 0.26mm/57Ts LSE	
L806		2379103500P	FERRITE CORE	0.5 \$ /3Ts 6*10	
L807		2379104400P	FERRITE CORE	5*5*2.5 55 ohm 100MHZ Min	
L808		2428106050P	JUMPER	\$ 0.6*5.0mm	
L901		2428106125P	JUMPER	\$ 0.6*12.5mm	
P601		2404300003P	CONNECTOR	JST XH 4P TOP P=2.5 OR EQUAL	
P603		2405106000P	EARPHONE JACK	2SJ-P520-A04 (577C) SINGATRON	
P701		2427408252P	WIRE HARNESS	8/8P H/B 1061#26 L=250mm p=2.0	
P802		2427409003P	WIRE HARNESS	9/9P H/B 1007#26 L=160mm	
P901		2404380302P	CONNECTOR	87210-0236 P=3.5 ACE OR EQUAL	
P902		2404380302P	CONNECTOR	87210-0236 P=3.5 ACE OR EQUAL	
P903		2404380302P	CONNECTOR	87210-0236 P=3.5 ACE OR EQUAL	
P904		2404380302P	CONNECTOR	87210-0236 P=3.5 ACE OR EQUAL	
PG85		2097400301P	EYELET	BSS3-1/2H T=0.25 SN 3uM	
PG86		2097400301P	EYELET	BSS3-1/2H T=0.25 SN 3uM	
PG87		2097400301P	EYELET	BSS3-1/2H T=0.25 SN 3uM	
Q601	RA	2361316191P	XISTOR,NPN R	2PC945P TO-92 PHILIPS	
Q601	RB	2361313691P	XISTOR,NPN R	KSC945CGTA TO-92 FAIRCHILD	
Q601	RC	2361302591P	XISTOR,NPN R	2SC945-AP TO-92 NEC	
Q801	RA	2361610900P	FET,N-CH	AP04N70BF-H(LF) TO-220FM APEC	
Q801	RB	2361611200P	FET,N-CH	AP04N70BF-A(LF) TO-220FM APEC	
Q802	RA	2361316191P	XISTOR,NPN R	2PC945P TO-92 PHILIPS	
Q802	RB	2361313691P	XISTOR,NPN R	KSC945CGTA TO-92 FAIRCHILD	
Q802	RC	2361302591P	XISTOR,NPN R	2SC945-AP TO-92 NEC	
Q901	RA	2361316191P	XISTOR,NPN R	2PC945P TO-92 PHILIPS	
Q901	RB	2361313691P	XISTOR,NPN R	KSC945CGTA TO-92 FAIRCHILD	
Q901	RC	2361302591P	XISTOR,NPN R	2SC945-AP TO-92 NEC	
Q905	RA	2360609596P	FET,N-CH(SMD)	AP9977GM SO-8 APEC	
Q905	RB	2360609696P	FET,N-CH(SMD)	STM6930A SO-8 SamHop	
Q907	RA	2361316191P	XISTOR,NPN R	2PC945P TO-92 PHILIPS	
Q907	RB	2361313691P	XISTOR,NPN R	KSC945CGTA TO-92 FAIRCHILD	
Q907	RC	2361302591P	XISTOR,NPN R	2SC945-AP TO-92 NEC	
Q908	RA	2361316191P	XISTOR,NPN R	2PC945P TO-92 PHILIPS	
Q908	RB	2361313691P	XISTOR,NPN R	KSC945CGTA TO-92 FAIRCHILD	
Q908	RC	2361302591P	XISTOR,NPN R	2SC945-AP TO-92 NEC	
Q909	RA	2361609891P	FET,N-CH	2N7000TA TO-92 FAIRCHILD	
Q909	RB	2361612091P	FET,N-CH	MW2N7000 TO-92 MAXWELLS	
Q911	RA	2360609596P	FET,N-CH(SMD)	AP9977GM SO-8 APEC	
Q911	RB	2360609696P	FET,N-CH(SMD)	STM6930A SO-8 SamHop	
R601		2233410495P	RES,CBN 1/4 S	RD 1/4WS 100Kohm J	
R602		2233439295P	RES,CBN 1/4 S	RD 1/4WS 3.9Kohm J	
R610		2233410395P	RES,CBN 1/4 S	RD 1/4WS 10Kohm J	
R611		2233410395P	RES,CBN 1/4 S	RD 1/4WS 10Kohm J	
R612		2233422395P	RES,CBN 1/4 S	RD 1/4WS 22Kohm J	
R613		2233422395P	RES,CBN 1/4 S	RD 1/4WS 22Kohm J	
R620		2233447295P	RES,CBN 1/4 S	RD 1/4WS 4.7Kohm J	
R802		2229201212P	THERMISTOR,PTH	SCK-103 T	
R803		2233491495P	RES,CBN 1/4 S	RD 1/4WS 910Kohm J	
R804		2428106075P	JUMPER	0.6 \$ *7.5mm	
R805		2239261935P	RES,PRE 1/4 S	RN 1/4WS 619Kohm F	
R806		2233410395P	RES,CBN 1/4 S	RD 1/4WS 10Kohm J	
R807		2233439095P	RES,CBN 1/4 S	RD 1/4WS 39 ohm J	
R808		2239210735P	RES,PRE 1/4 S	RN 1/4WS 107Kohm F	
R809		2233410395P	RES,CBN 1/4 S	RD 1/4WS 10Kohm J	
R811		2239556276P	RES PRE	RN 2WS 0.562 ohm F	

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
R812		2233491495P	RES,CBN 1/4 S	RD 1/4WS	910Kohm J
R820		2235422003P	RES,MTL 1	RS 1W	22ohm J
R821		2233622095P	RES,CBN 1/2WS	RD 1/2WS	22 ohm
R823		2233410195P	RES,CBN 1/4 S	RD 1/4WS	100 ohm J
R824		2239212115P	RES,PRE 1/4 S	RN 1/4WS	1.21Kohm F
R825		2239212115P	RES,PRE 1/4 S	RN 1/4WS	1.21Kohm F
R827		2233410295P	RES,CBN 1/4 S	RD 1/4WS	1Kohm J
R828		2239226725P	RES,PRE 1/4 S	RN 1/4WS	26.70K F
R831		2233410195P	RES,CBN 1/4 S	RD 1/4WS	100 ohm J
R832		2233482195P	RES,CBN 1/4 S	RD 1/4WS	820 ohm J
R833		2233410495P	RES,CBN 1/4 S	RD 1/4WS	100Kohm J
R834		2233410495P	RES,CBN 1/4 S	RD 1/4WS	100Kohm J
R835		2233410495P	RES,CBN 1/4 S	RD 1/4WS	100Kohm J
R836		2233410495P	RES,CBN 1/4 S	RD 1/4WS	100Kohm J
R837		2235522103P	RES,MTL 2	RS 2W	220ohm J
R839		2239261935P	RES,PRE 1/4 S	RN 1/4WS	619Kohm F
R842		2233410295P	RES,CBN 1/4 S	RD 1/4WS	1Kohm J
R843		2428106075P	JUMPER	0.6 \$ *7.5mm	
R844		2239261935P	RES,PRE 1/4 S	RN 1/4WS	619Kohm F
R851		2239290905P	RES,PRE 1/4 S	RN 1/4WS	909 ohm F
R854		2233410195P	RES,CBN 1/4 S	RD 1/4WS	100 ohm J
R901		2233410395P	RES,CBN 1/4 S	RD 1/4WS	10Kohm J
R902		2233439295P	RES,CBN 1/4 S	RD 1/4WS	3.9Kohm J
R905		2242330595P	High Voltage Resistor	RD 1/2W	3.0Mohm J
R906		2233447995P	RES,CBN 1/4 S	RD 1/4WS	4.7 ohm J
R907		2233447995P	RES,CBN 1/4 S	RD 1/4WS	4.7 ohm J
R908		2233410395P	RES,CBN 1/4 S	RD 1/4WS	10Kohm J
R909		2239233215P	RES,PRE 1/4 S	RN 1/4WS	3.32K F
R911		2233447995P	RES,CBN 1/4 S	RD 1/4WS	4.7 ohm J
R912		2233447995P	RES,CBN 1/4 S	RD 1/4WS	4.7 ohm J
R913		2233410395P	RES,CBN 1/4 S	RD 1/4WS	10Kohm J
R914		2233433295P	RES,CBN 1/4 S	RD 1/4WS	3.3Kohm J
R918		2239210735P	RES,PRE 1/4 S	RN 1/4WS	107Kohm F
R920		2233420295P	RES,CBN 1/4 S	RD 1/4WS	2.0Kohm
R922		2239256245P	RES,PRE 1/4 S	RN 1/4WS	5.62MohmF
R924		2233410595P	RES,CBN 1/4 S	RD 1/4WS	1.0Mohm J
R925		2242330595P	High Voltage Resistor	RD 1/2W	3.0Mohm J
R927		2239233215P	RES,PRE 1/4 S	RN 1/4WS	3.32K F
R929		2233410395P	RES,CBN 1/4 S	RD 1/4WS	10Kohm J
R937		2239239205P	RES,PRE 1/4 S	RN 1/4WS	392 ohm F
S701		2403702200P	TACT SWITCH	TSAA-2	HUAJIE
S702		2403702200P	TACT SWITCH	TSAA-2	HUAJIE
S703		2403702200P	TACT SWITCH	TSAA-2	HUAJIE
S704		2403702200P	TACT SWITCH	TSAA-2	HUAJIE
S705		2403702200P	TACT SWITCH	TSAA-2	HUAJIE
S801	RA	2407413100P	SOCKET	0711-02-P10-9	INALWAYS
S801	RB	2407413300P	SOCKET	SC-8R-F15A9	SUPERCOM
S802	RA	2407200991P	HOLDER,FUSE	CQ-05T	CONQUER
S802	RB	2407200791P	HOLDER,FUSE	FC-05C	
S803	RA	2407200991P	HOLDER,FUSE	CQ-05T	CONQUER
S803	RB	2407200791P	HOLDER,FUSE	FC-05C	
T801	RA	2374228052P	XFORMER,POWR	ER-28 0.35mm/42+14Ts	LTE
T801	RB	2374228051P	XFORMER,POWR	ER-28 0.35mm/42+14Ts	LSE
T901	RA	2374301405P	XFORMER INVERTER (DARFON)	EEL-19 20/2000Ts 0.1*20/0.06mm	
T901	RB	2374301404P	XFORMER INVERTER	TLT-1285 20/2000Ts 70uH Tailon	
T902	RA	2374301405P	XFORMER INVERTER (DARFON)	EEL-19 20/2000Ts 0.1*20/0.06mm	
T902	RB	2374301404P	XFORMER INVERTER	TLT-1285 20/2000Ts 70uH Tailon	
U701		2202134200P	PC BOARD	JT178DP1GD-3 K/B FR1 140*16	
U801		2202134101P	PC BOARD	178DP1GD P/B FR1 148*145 2.01	
Z801		2363500395P	DIODE,ZENER	HZ12A-3 12.2-12.7V 0.5W HITACH	
Z802		2363500395P	DIODE,ZENER	HZ12A-3 12.2-12.7V 0.5W HITACH	

OTHERS

P951	2427130047P	AC POWER CORD	GERMAN WALL	1.83M BLACK(Europe)
------	-------------	---------------	-------------	---------------------

PLE1700S Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
P951		2427130101P	AC POWER CORD	UK WALL 1.83M BLACK (UK)	
P961		2427501195P	I/O CABLE	D15/D15 20276(4.5) 1.83M BLACK	
P962		2427721841P	CABLE	EAR 3.5(577C) 2547#28 1.8M BLK	
P980		2420311501P	FFC CABLE	FFC 50P*0.5mm*L115mm	
P981		2420311302P	FFC CABLE	FFC 30P*0.5mm*L115mm	
P986		2427307061P	LUG W/WIRE	φ 4.3*2 1007#18 BLACK L=60mm	
P988		2427404351P	WIRE HARNESS	4/2+2P 1061#24 L=280/350 P=2.5	
V901		2212007209P	LCD PANEL	CLAA170EA-08Q2 CPT	
W601	RA	2391301083P	SPEAKER ASS'Y	1W/8 ohm 52*19.5*14 (R)	
W601	RB	2391301586P	SPEAKER ASS'Y	SPB18-E21G-RB 52*19.5*14mm Y.G	
W602	RA	2391301084P	SPEAKER ASS'Y	1W/8 ohm 52*19.5*14 (L)	
W602	RB	2391301587P	SPEAKER ASS'Y	SPB18-E21G-WB 52*19.5*14mm Y.G	