

SPECIFICATION CONTENT LIST

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2. CONNECTOR PIN ASSIGNMENT.....
3. TEST CIRCUIT&MEASURING INSTRUMENTS/**NONE**.....
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5. CIRCUIT/**NONE**.....
6. BOM LOCATION LIST/**NONE**.....
7. PCB LAYOUT/.....
8. TRANSFORMERS SPECIFICATION/**NONE**.....

Model : AB-B502-16B : TWO LAMPS

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DC TO AC INVERTER SPECIFICATION

The DC to AC inverter is designed as a low noise, high frequency, high efficiency and as a low profile efficiency and light weight switching power supply.

1. Features

- (1) Constant current output to control brightness.
- (2) Auto shut off during.
- (3) High Performance, High Efficiency.
- (4) Fixed output frequency does not effect by brightness adjustment

2. Application

LCD Type	LCD Part No	Brandh	Remark
12"~18.5"	G150XG01	AU	
	CLAA150XG 09	CPT	

3. Operating Conditions

Item	Mark	Condition	Min	Max	Unit	Remark
Operating Temperature	Top	Ha=90% RH under	0	65	°C	
Storage Temperature	Tstg	Ha=95% RH under	-10	80	°C	
Operating Humidity	Hop	Ta=0~65°C	20	90	% RH	
Storage Humidity	Hstg	Ta=20~80°C	-	95	% RH	

4. Operating Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Input Voltage	Vin	GND=0V	10.8	12	13.2	V	
Input Current (Low Brightness)	I in L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	250	300	350	mA	
Input Current (High Brightness)	I in H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	760	820	880	mA	
Lamp Current (Low Brightness)	I out L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	0.7	1.0	1.3	mA rms	
Lamp Current (High Brightness)	I out H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	5.5	6.0	6.5	mA rms	
Working Frequency			38	41	43	KHZ	
Output Voltage		CCFT Current=5mA	-	700	-	V	
Brightness Control		Connection of Voltage	5	-	0	V	

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5. Connection pin assignment

5-1. (P1) Input Connector: 5 Pins , Pitch:2.0mm

PIN No	Symbol	Description
1	Vin	DC+12V
2	GND	Ground
3	Enable	ON/OFF control ON=+5V OFF=0V
4	Brightness	0~5Vdc control, 0V:Max , 5V:Min
5	GND	Ground

5-2 (P2&P3) Output Connector

PIN No	Symbol	Description
1	Output	Lamp High Voltage
2	Output	Lamp Low Voltage

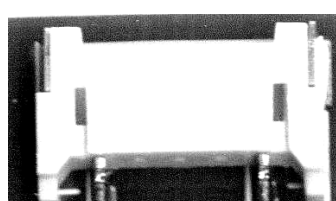
5-3 Connector Model No & Brand

Connector No.	Connector Model No	Brand
P1	2003P05SOT	LANDWIN
P2	40020210T	LANDWIN
P3	40020210T	LANDWIN



2003P05SOT

(pin1) ↑



40020210T

(pin1) ↑

6. Mechanical Characteristics

Dimension: 142.5mm * 23mm * 9.5mm

Weight: MAX. 20g

MODEL : AB-B502-16B : TWO LAMPS
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PCB Dimension & Screw Hole Location (Diameter 3mm):

Screw hole = 3.0mm

Please see fig-3

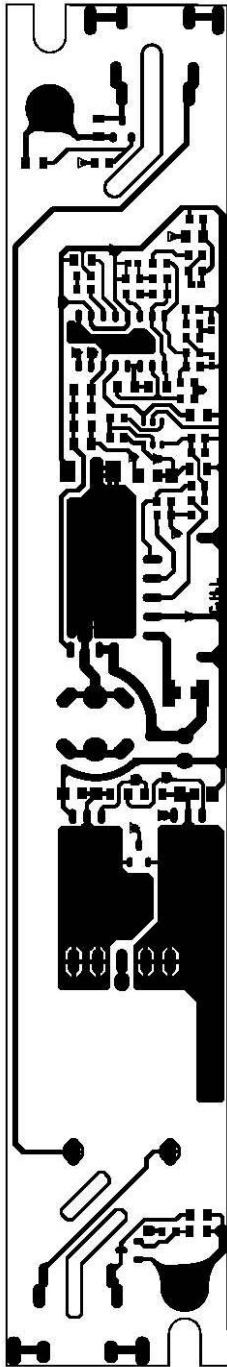


fig-1 Top Layer

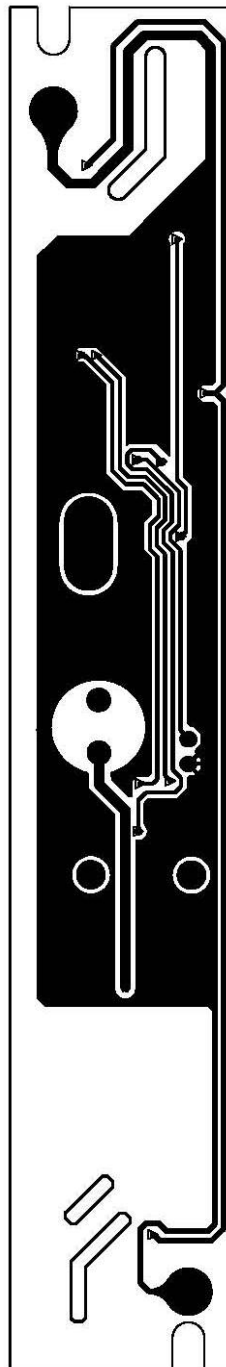
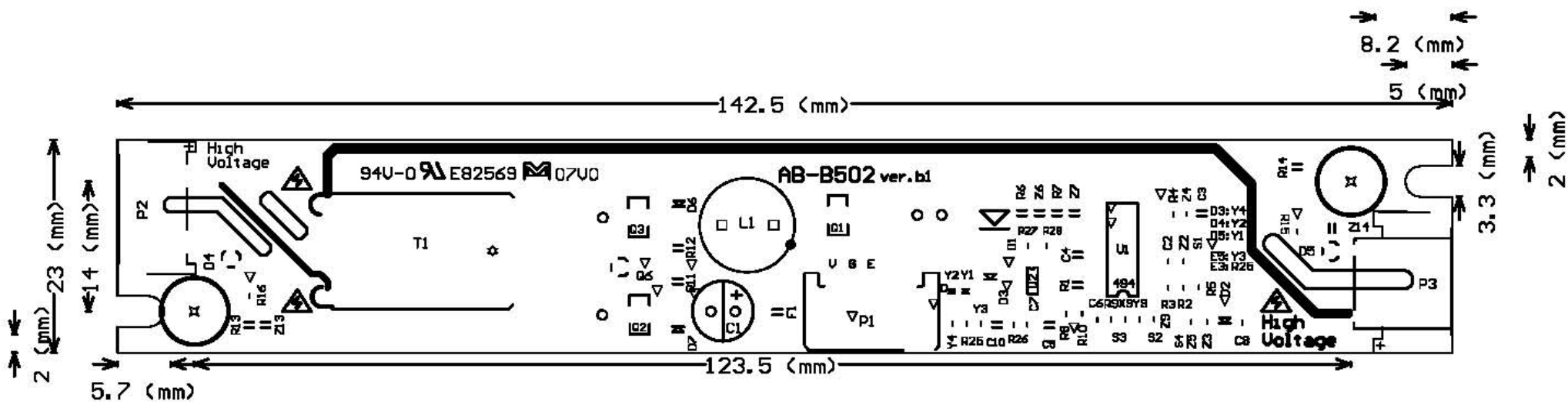


fig-2 Bottom Layer



1. Screw hole Dimension : 3.0 mm
2. P1 : L * W * H : 14.0 mm * 7.5 mm * 6.0 mm
3. L1 : L * W * H : 10.0 mm * 9.0 mm * 6.0 mm
4. T1 : L * W * H : 15.5 mm * 15.5 mm * 8.5 mm (core size)
5. U1 : Height 2.2 mm
6. P2 & P3 : L * W * H : 14.0 mm * 8.0 mm * 4.0 mm

fig-3 Printing Layer