ATBEL TECHNOLOGY CORP.

SPECIFICATION CONTENT LIST

Model : AB-B502-16LHS : Two Lamps

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MODEL : AB-B502-16LHS TWO LAMPS

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	Brand	Remark
15”	G150XG0 l	AU	
	CLAA150XG 09	CPT	

3. Operating Conditions

Item	Mark	Condition	Min	Max	Unit	Remark
Operating Temperature	Top	Ha=90% RH under	0	65	℃	
Storage Temperature	Tstg	Ha=95% RH under	-10	80	℃	
Operating Humidity	Hop	Ta=0~65℃	20	90	% RH	
Storage Humidity	Hstg	Ta=20~80℃	-	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)	900	1100	1200	mA	
Lamp Current (Low Brightness)	I out L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	3.0	4.0	6.0	mA rms	
Lamp Current (High Brightness)	I out H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	7.5	8.0	8.5	mA rms	
Working Frequency			38	41	43	KHZ	
Output Voltage		CCFT Current=5mA	-	750	-	V	
Brightness Control		Connection of Voltage	5	-	0	V	

5. Connection pin assignment

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

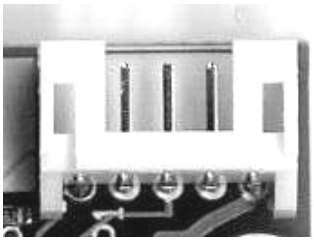
PIN No	Symbol	Description
1	Vin	DC+12V
2	GND	Ground
3	Enable	ON/OFF control ON=+5V OFF=0V
4	Brightness	0~5Vdc control, 0V:Max , 5V:Min
5	GND	Ground

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 Parts No	Brand
P1	2003P05S0T	LANDWIN
P2	3502P0210T-1(3.5mm)	LANDWIN
P3	3502P0210T-1(3.5mm)	LANDWIN



2003P05S0T (Pin1)

3502P0210T-1(3.5mm) (pin1)

6. MECHANICAL CHARACTERISTICS

Dimension: 147mm * 25mm * 9.5mm **Weight: MAX. 20g**

PCB Dimension & Screw Hole Location (Diameter 3mm):

Screw hole = 3.0mm Please see fig-3

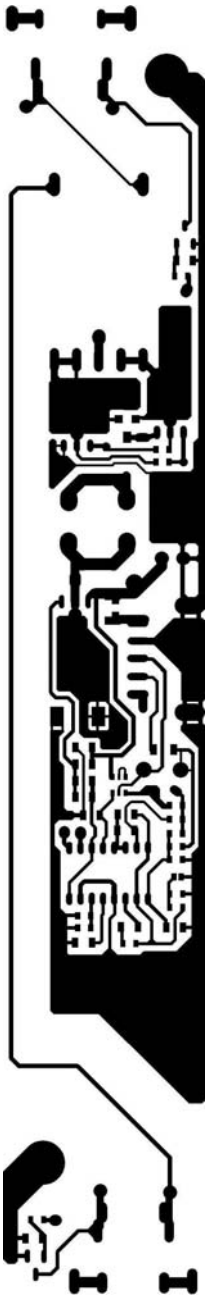


fig.1 Top Layer

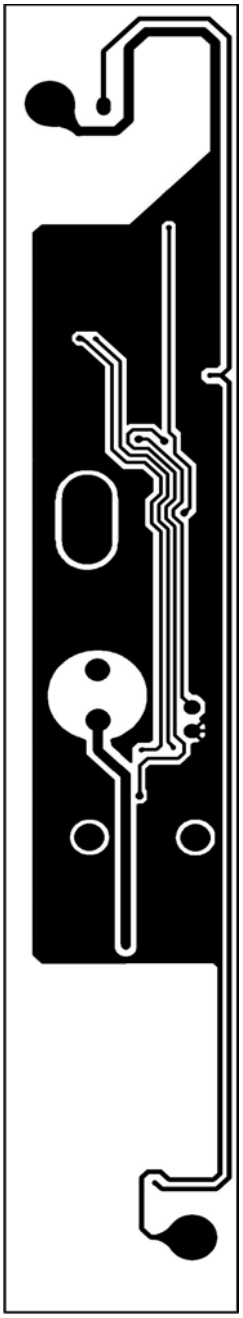
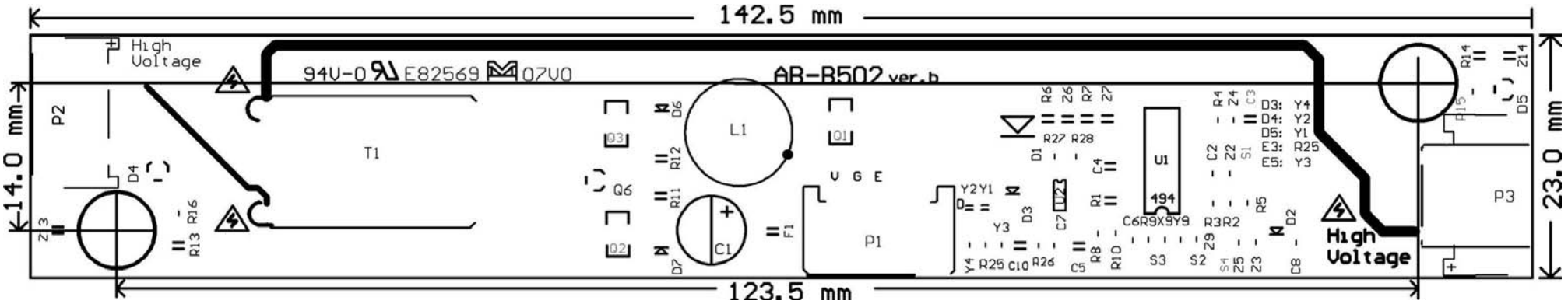


fig-2 Bottom Layer



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 Laye