

Model : AB-A301-V.50S: Single Lamp

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
7"	TX16D11VM2CAA	Hitachi	

3. Operating Conditions

Item	Mark	Condition	Min	Max	Unit	Remark
Operating Temperature	Top	Ha=90 % RH under	0	85		
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	4.5	5.0	5.5	V	
Input Current (Low Brightness)	I in L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	150	180	200	mA	
Input Current (High Brightness)	I in H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	560	590	620	mA	
Lamp Current (Low Brightness)	I out L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	1.0	1.3	1.6	mA rms	
Lamp Current (High Brightness)	I out H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	4.5	5.0	5.5	mA rms	
Working Frequency			47	51	55	KHz	
Output Voltage (Vp)		CCFT Current=6mA	-	590	-	V	
Output Voltage (RMS)		CCFT Current=6mA	-	410	-	V	
Brightness Control		Connection of Voltage	5	-	0	V	
Brightness Control: Cut Off		Connection of Voltage	5.8	6.0	6.2	V	

DC TO AC INVERTER SPECIFICATION

5. Connection pin assignment

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

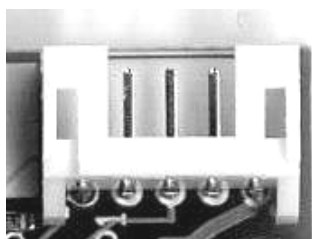
PIN No	Symbol	Description
1	Vin	DC+5V
2	GND	Ground
3	Brightness	0~5Vdc control, 0V:Max , 5V:Min
4	GND	Ground
5	Enable	ON/OFF control ON=+5V OFF=0V

5-2 P2 Output Connector

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

5-3 Connector Model No & Brand

Connector No.	Connector Parts No	Brand
P1	2003P05 S0T 2.0mm	Landwin
P2	3502P0210T-1 3.5mm	Landwin



(Pin1)

2003P05 S0T (2.0mm)



(pin1)

3502P0210T-1(3.5mm)

6. MECHANICAL CHARACTERISTICS

Dimension: 91.8mm * 16mm * 9.8mm

Weight: MAX. 10g

PCB Dimension & Screw Hole Location :

Screw hole = 3.0mm

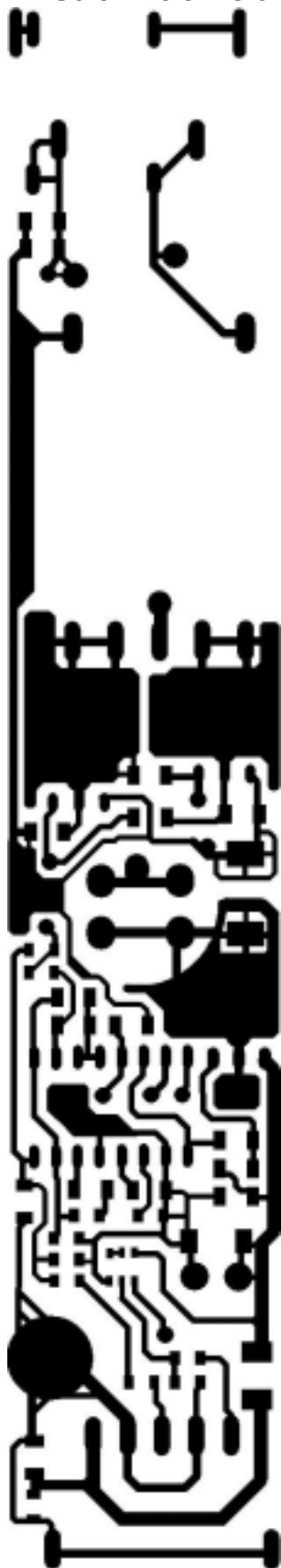


Fig. Top layer



Fig. Bottom layer

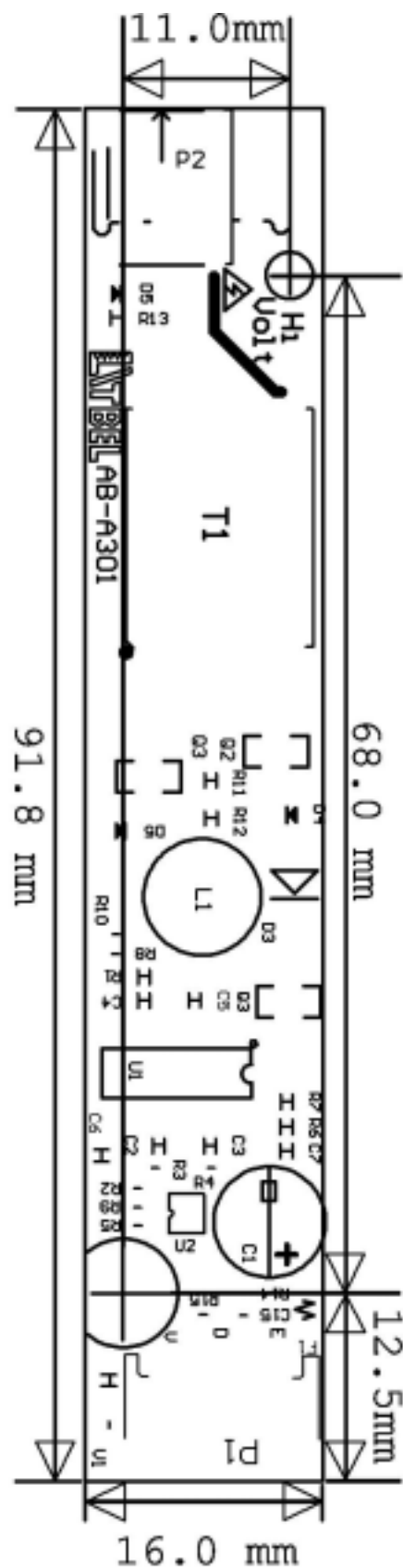


Fig. Printing