

### Description

apogeeLAB has created a dedicated power supply for the LC-CLOCK GENERATOR. Extremely ergonomic, with small dimension, only 90x55mm. It has a excellent fully resined **Low Noise** transformer.

### Product Features

- **Output Current of 1 Amp max**
- **Stable output 12Vdc**
- **Very low consumption, only 30mA**
- **Precision Transformer, in resin block**
- **Output Voltage Accuracy +/- 3%**

### General Description

The power supply is equipped with a double input filter 115 / 230Vac, to eliminate disturbances from the home network. The board, is equipped with a double main input, 115/230Vac, which can be modified by means of a small welding. It is supplied with four spacer turrets and four M3 screws.

The LC-CLOCK power supply is supplied with a standard positive voltage regulator. **The standard regulator can be replaced with this board, with a discrete component regulator on [www.apogeeLAB.it](http://www.apogeeLAB.it), in order to further improve its performance, significantly reducing the output noise.**

### Absolute Maximum Ratings

Symbol	Parameter	Condition	Rating	Unit	Notes
<b>Vac in max</b>	Input AC Voltage	LCCPS – V1.0	125	Vac	Requires welding change
<b>FHz</b>	Frequency Vac input	LCCPS – V1.0	60	Hz	<b>For 115Vac in</b>
<b>Vac in max</b>	Input AC Voltage	LCCPS – V1.0	240	Vac	Requires welding change
<b>FHz</b>	Frequency Vac input	LCCPS – V1.0	50	Hz	<b>For 220Vac in</b>
<b>Vdc out max</b>	Output Voltage DC	LCCPS – V1.0	+12.5	Vdc	
<b>Pdiss</b>	Total Power Dissipation	@ T = 25°C	12	W	1
<b>Temp</b>	Operating Temperature	T = 25°C		°C	

Note:

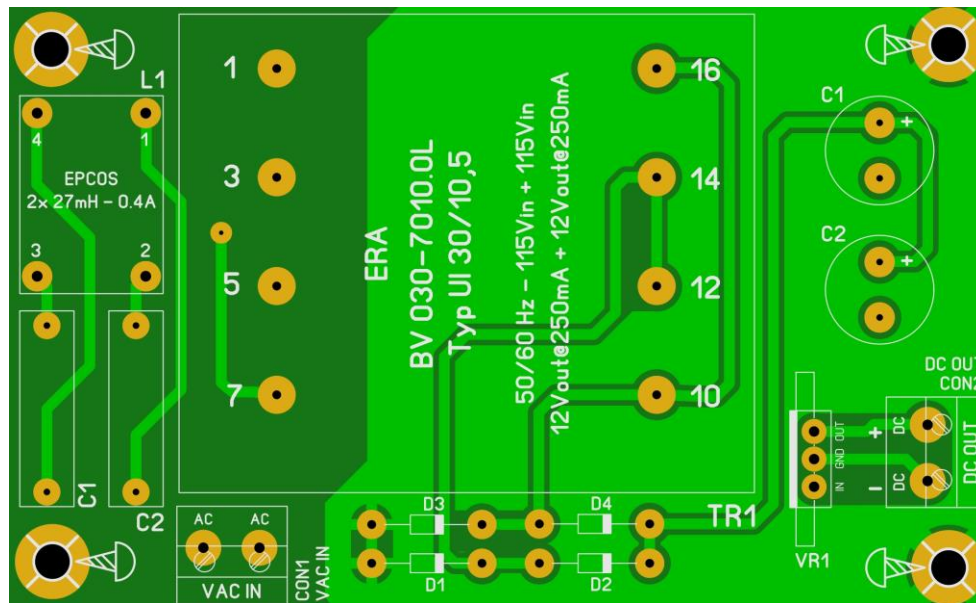
1 - This specification assumes adequate heatsinking

### Performance Characteristics

Symbol	Parameter	Condition	Min	Typ	Max	Unit
<b>Vac - in</b>	Input AC Voltage	LCCPS – V1.0	115	120	125	Vac
<b>Vac - in</b>	Input AC Voltage	LCCPS – V1.0	220	230	240	Vac
<b>I</b>	Output Current	LCCPS – V1.0	0.1	0.4	1	A
<b>Vdco</b>	Output Voltage Accuracy	LCCPS – V1.0	11.9	12.2	12.5	V

### Mechanical Information

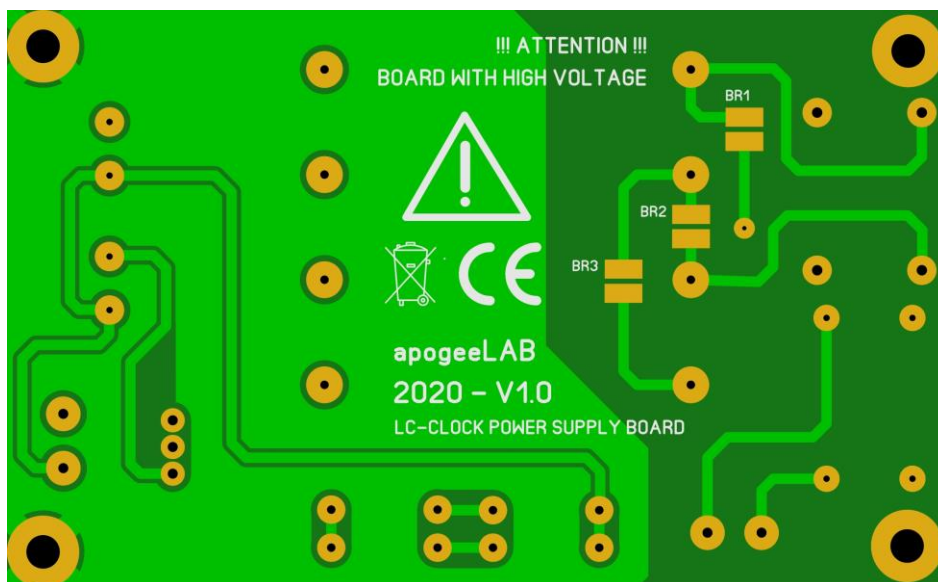
All dimensions are in millimeters (90 x 55)



### Connector Configuration

Connector No.	Label
CON 1	Vac IN
CON 2	Vdc OUT

### CONNECT INPUT FOR 115Vac @60Hz or 230Vac @50Hz



### Pitches Solder Configuration

In the bottom of the LC-CLOCK power supply V1.0 PCB, we have a 3 pitches solder. They are called **BR1**, **BR2** and **BR3**. Follow the table below to understand which pitches to solder for 120Vac or 220Vac.

Pitches to be Solder	Label
BR1 + BR2	115 Vac IN @ 60Hz
BR3	220 Vac IN @ 50Hz

## Important Notice

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