Description

apogeeLAB has created a clock generator with precision power supply with on board an active quartz oscillator of maximum precision. Extremely ergonomic, with small dimension, only 63x40mm.

Product Features

- **Very low consumption, only 30mA**
- **Precision TXCO Oscillator Generator, in gold package**
- **Phase Noise: -130dBc/1KHz@10M**
- **Frequency Tolerance: +/- 5PPM**
- **Frequency Accuracy: +/- 0.1ppm MAX**
- **Aging: +/- 2PPM/years**

General Description

The TXCO oscillatori s powered by a very precision on-board power supply, providing the rigt voltage with very low noise. Everything is powered with a positive DC voltage of 12V. The active quartz oscillator, marked apogeeLAB, has an accuracy of 0.1PPM, the best on the market.
This precision clock generator can be integrated into a CD-PLAYER, DAC, USB DAC etc., and has the ability to significantly reduce jitter. The latter is nothing more than the varation of one or more characteristics of a signal such as, for expample amplitude, frequency or phase.

Absolute Maximum Ratings

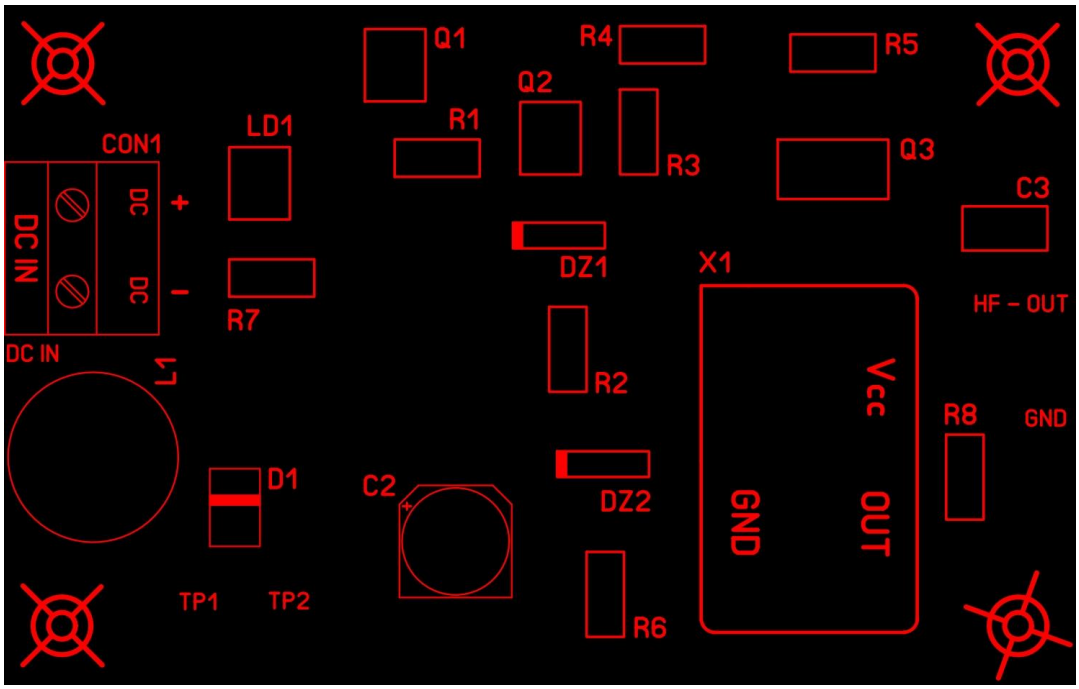
Symbol	Parameter	Condition	Rating	Unit	Notes
Vdc in max	Input DC Voltage	LCCG – V1.2	12.5	Vdc	
Vdc out max	Output Voltage DC	LCCG – V1.2	+12.5	Vdc	
Pdiss	Total Power Dissipation	@ T = 25°C	0.4	W	
Temp	Operating Temperature	T = 25°C		°C	

Performance Characteristics

Symbol	Parameter	Condition	Min	Typ	Max	Unit
Vdc - in	Input AC Voltage	LCCG – V1.2	11.9	12	12.5	Vdc
Vdco	Output Voltage Accuracy	LCCG – V1.2	11.9	12.2	12.5	V
FreqT	Frequency Tolerance	LCCG – V1.2	4.995	5	5.005	PPM
FreqA	Frequency Accuracy	LCCG – V1.2			0.1	PPM

Mechanical Information

All dimensions are in millimeters (63 x 40)



Connector Configuration

Connector No.	Label
CON 1	Vdc IN
HF - OUT	Signal OUT

Important Notice

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