

## LV96/LV98 Series 3.3 V LVDS Clock Oscillators

February 2016

Lead Free

- Pletronics LV96/LV98 Series is a quartz crystal controlled precision square wave generator with an LVDS output.
- Solder pad compatible legacy LVDS oscillator solutions.
- FR4 base using the LV93 or LV99 5x7 mm ceramic packaged SMD device.
- Tape and Reel packaging is available.
- 10.9 to 670 MHz
- Enable/Disable Function:
  - LV98** on pad 2
  - LV96** on pad 1
- Low Jitter

***This series, LV96 and LV98, is not recommended for new designs.***

***\* For new designs, pin-out on pad 1 is the only available option for LV99 series part.***

**Pletronics Inc. certifies this device is in accordance with the  
RoHS 6/6 (2011/65/EC) and WEEE (2002/96/EC) directives.**

Pletronics Inc. guarantees the device does not contain the following:

Cadmium, Hexavalent Chromium, Lead, Mercury, PBB's, PBDE's

Weight of the Device: 0.40 grams

Moisture Sensitivity Level: 1 As defined in J-STD-020C

Second Level Interconnect code: e4

### Absolute Maximum Ratings:

Parameter	Unit
V <sub>CC</sub> Supply Voltage	-0.5V to +6.5V
V <sub>i</sub> Input Voltage	-0.5V to V <sub>CC</sub> + 0.5V
V <sub>o</sub> Output Voltage	-0.5V to V <sub>CC</sub> + 0.5V

### Thermal Characteristics

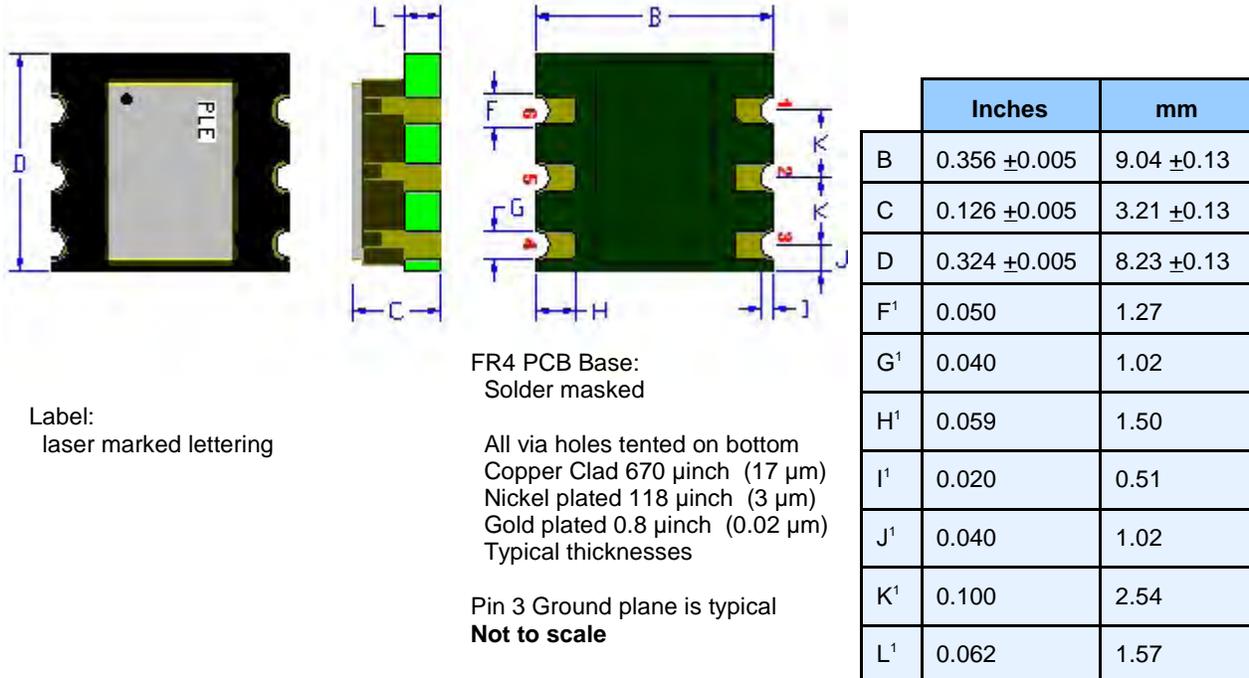
The maximum die or junction temperature is 155°C

The thermal resistance junction to board is 40 to 80°C/Watt depending on the solder pads, ground plane and construction of the PCB.

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## Mechanical:



LV98 Pad	LV96 Pad	Function	Note
2	1	Output Enable/Disable	When this pad is not connected the oscillator shall operate. This is not a recommended condition!!!!!! When this pad is <0.80 volts, the output will be inhibited (High impedance state) Recommend connecting this pad to $V_{CC}$ if the oscillator is to be always on.
1	2	No function	Recommend connecting this pad to ground. The is internal connection.
3		Ground (GND)	
4		Output	The outputs must be terminated, 100 ohms between the outputs is the ideal termination. Capacitor coupled terminations can be used.
5		Output*	
6		Supply Voltage ( $V_{CC}$ )	Recommend connecting appropriate power supply bypass capacitors as close as possible.