



July 2012



- Pletronics LV91/LV97 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
- 9.7 mm x 14.0 mm 'B' package
- Enable/Disable Function:
 LV91 on pad 2
 LV97 on pad 1
- Low Jitter

This series, LV91 and LV97, 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 (2002/95/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: 0.66 grams

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

Second Level Interconnect code: e4

Absolute Maximum Ratings:

Parameter	Unit
V _{cc} Supply Voltage	-0.5V to +6.5V
Vi Input Voltage	-0.5V to V _{CC} + 0.5V
Vo Output Voltage	-0.5V to V _{CC} + 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.

SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565

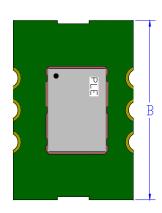
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LV91/LV97 Series 3.3 V LVDS Clock Oscillators

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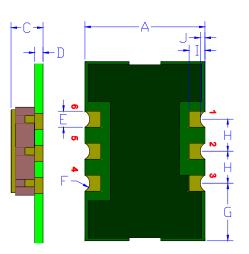
Mechanical:



FR4 PCB Base: Solder masked All via holes tented on bottom Copper Clad ½ oz. Typical Gold plated 0.02 μinch (0.5 μm)

Label:

Laser engraved on the 5x7 mm oscillator that is mounted on the FR4 base



Pin 3 Ground plane is typical

Not to scale

	Inches	mm
Α	0.380 <u>+</u> 0.010	9.65 <u>+</u> 0.25
В	0.550 <u>+</u> 0.010	13.97 <u>+</u> 0.25
С	0.098 <u>+</u> 0.010	2.49 <u>+</u> 0.25
D¹	0.026 typ.	0.66
E¹	0.050	1.27
F¹	0.028 R	0.72 R
G¹	0.180	4.57
H¹	0.100	2.54
I ¹	0.050	1.27
J¹	0.015	0.38
	1	

¹ Typical Dimensions







LV91 Pad	LV97 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	3	Ground (GND)	
4	4	Output	The outputs must be terminated, 100 ohms between the outputs is the ideal
Ę	5	Output*	termination. Capacitor coupled terminations can be used.
6	3	Supply Voltage (V _{CC})	Recommend connecting appropriate power supply bypass capacitors as close as possible.

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