

LV44J Series 3.3 V LVDS Clock Oscillators

April 2017



- Pletronics' LV44J Series is a quartz crystal controlled precision square wave generator with LVDS output.
- Improved phase noise performance.
- Tape and Reel or cut tape packaging is available.
- 3.2 x 2.5 mm LCC Ceramic Package
- Enable/Disable Function on pad 1

- Disable function includes low standby power mode
- Fundamental and 3rd Overtone Crystals used
- Improved circuit to minimize oscillator issues such as multi-mode output signal.
- Lowest litter Product
- Lowest Jitter Product

*** BEST OPTION FOR LOW JITTER REQUIREMENTS**

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: 0.09 grams
Moisture Sensitivity Level: 1 As defined in J-STD-020D.1
Second Level Interconnect code: e4

Absolute Maximum Ratings:

Parameter	Unit
V _{CC} Supply Voltage	-0.3V to +4.0V
Vi Input Voltage	-0.3V to V _{CC} + 0.3V
Vo Output Voltage	-0.3V to V _{CC} + 0.3V

Thermal Characteristics

The maximum die or junction temperature is 125°C The thermal resistance junction to board is 30 to 50°C/Watt depending on the solder pads, ground plane and construction of the PCB.

SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565

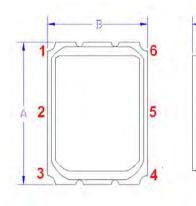
18924600166 QQ: 857950243 <u>http://www.vc-tcxo.com</u>

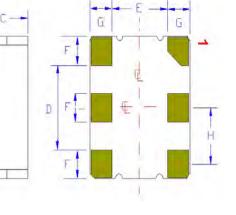


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Mechanical:





	Inches	mm
А	0.125 <u>+</u> 0.004	3.20 <u>+</u> 0.10
В	0.098 <u>+</u> 0.004	2.50 <u>+</u> 0.10
С	0.040 max	1.00 max
D ¹	0.063	1.60
E ¹	0.051	1.30
F ¹	0.031	0.80
G¹	0.024	0.60
H ¹	0.047	1.20

Lead Free

Contacts:

Gold 11.8 to 39.4 μinches (0.3 to 1.0μm) over Nickel 50 to 350 μinches (1.27 to 8.89 μm) ¹ Typical dimensions

Not to Scale

Pad	Function	Note	
1	Output Enable/Disable	When this pad is not connected the oscillator shall operate. When this pad is < 'V disable', the output will be inhibited (high impedance state.) Recommend connecting this pad to V_{cc} if the oscillator is to be always on.	
2	No connect	There is no internal connection to this pad	
3	Ground (GND)		
4	Output	The outputs must be terminated, 100 ohms between the outputs is the ideal	
5	Output*	termination.	
6	Supply Voltage (V _{cc})	Recommend connecting appropriate power supply bypass capacitors as close as possible.	

Layout and application information

Recommend connecting Pad 1 and Pad 2 together to permit the design to accept Enable/Disable input on either pad

For Optimum Jitter Performance, Pletronics recommends:

- a ground plane under the device
- no large transient signals (both current and voltage) should be routed under the device
- do not layout near a large magnetic field such as a high frequency switching power supply
- do not place near piezoelectric buzzers or mechanical fans.

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