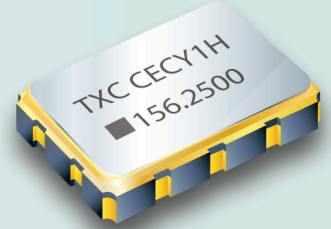


# SMD LVDS Crystal Oscillators - Differential Output

## 5.0 x 3.2 x 1.2 mm CE Series

### Features

- Fundamental solution.
- 3.3V and 2.5V operation available.
- LVDS output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH/SONET.
- RoHS Compliant / Pb Free.

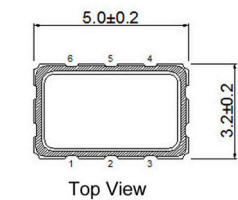


### Electrical Specifications

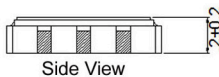
Item / Type	CE
Output Type	LVDS
Output Load	100 Ω
Oscillation Mode	Fundamental
Supply Voltage	2.5 V , 3.3 V
Frequency Range	25 ~ 200 MHz
Overall Frequency Stability *	± 50 ppm , or specify
Operating Temperature Range	- 10 ~ + 70 °C , - 40 ~ + 85 °C , or specify
Storage Temperature Range	- 55 ~ + 125 °C
Voltage Vol ( Min. ) / Voh ( Max. )	0.9 V / 1.6 V
Rise ( Tr ) / Fall ( Tf ) Time ( 20 % ~ 80 % )	1 nS Max.
Supply Current	80 mA Max.
Symmetry	45 ~ 55 %
Start-up Time	10 mS Max.
Phase Jitter ( 12 KHz ~ 20 MHz )	1 pS Max.

\* Inclusive of frequency tolerance at 25 °C, variation over temperature, supply voltage variation, aging and vibration.

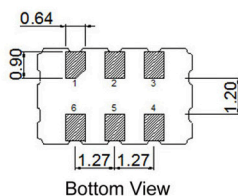
### Dimensions



Top View



Side View

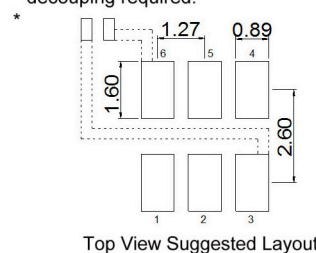


Bottom View

#### PAD FUNCTION:

- 1: ENABLE CONTROL or NC
- 2: ENABLE CONTROL or NC
- 3: GND
- 4: OUT
- 5: OUTN
- 6: VDD

\*: External high frequency power supply decoupling required.



Top View Suggested Layout

Units: mm