

# SMD LVDS VCXO - Differential Output 5.0 x 3.2 x 1.2 mm CN Series

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## Features

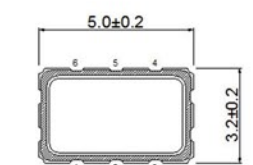
- Voltage Controlled Crystal Oscillator (VCXO).
- Fundamental solution.
- LVDS output, output frequencies 50 MHz to 200 MHz.
- Wide pull range and good linearity.
- Low phase noise, low jitter.
- Tri-State function available.
- Applications : SDH / SONET, Ethernet, Base Stations.
- RoHS Compliant / Pb Free.

## Electrical Specifications

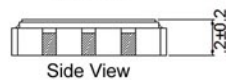
Item / Type	CN
Output Type	LVDS
Output Load	100 $\Omega$
Oscillation Mode	Fundamental
Supply Voltage (VDD)	3.3 V
Frequency Range	50 ~ 200 MHz
Operating Temperature Range	- 10 ~ + 70 $^{\circ}\text{C}$ , - 40 ~ + 85 $^{\circ}\text{C}$ , or specify
Storage Temperature Range	- 55 ~ + 125 $^{\circ}\text{C}$
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
Symmetry	45 ~ 55 %
Start-up Time	10 mS Max.
Absolute Pulling Range ( APR ) *	$\pm$ 50 ppm Min. , or specify
Nominal Control Voltage	0.5 VDD
Control Voltage Range	0 ~ VDD
Linearity	10 % Max.
Phase Jitter ( 12 KHz ~ 20 MHz )	1 pS Max.

\* APR=(Pull Range) - (Frequency tolerance at 25  $^{\circ}\text{C}$ , variation over temperature, supply voltage variation, and aging.)

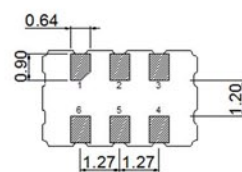
## Dimensions



Top View



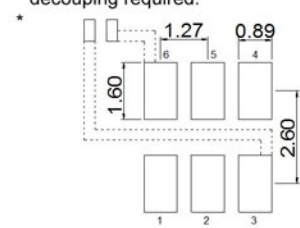
Side View



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