

# SMD LVPECL VCXO

## 5.0 x 3.2 x 1.2 mm

### CJ Series



#### Features

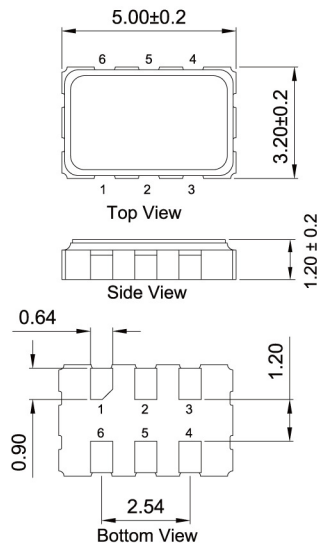
- Voltage Controlled Crystal Oscillator (VCXO).
- Fundamental solution.
- PECL output, output frequencies 60 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : SDH / SONET, Ethernet, Base Stations.
- RoHS Compliant / Pb Free.

#### Electrical Specifications

| Item / Type                                    | CJ                                      |
|------------------------------------------------|-----------------------------------------|
| Output Type                                    | LVPECL                                  |
| Output Load                                    | 50 $\Omega$ to VDD - 2V                 |
| Oscillation Mode                               | Fundamental                             |
| Supply Voltage                                 | 3.3 V                                   |
| Frequency Range                                | 60 ~ 200 MHz                            |
| Frequency Stability / Operating Temperature    | $\pm 50$ ppm / - 40 ~ + 85 $^{\circ}$ C |
| Storage Temperature Range                      | - 55 ~ + 125 $^{\circ}$ C               |
| Voltage Vol ( Max. ) / Voh ( Min. )            | VDD - 1.62 V / VDD - 1.025 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                        | 1.65 V                                  |
| Control Voltage Range                          | 0 - 3.3 V                               |
| Linearity                                      | $\pm 10$ % Max.                         |
| Phase Jitter ( 12 KHz ~ 20 MHz )               | 1 ps Max.                               |

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

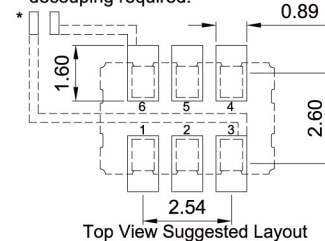
#### Dimensions



#### PAD FUNCTION:

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

\* :External high frequency power supply decoupling required.



Units: mm

# Mouser Electronics

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