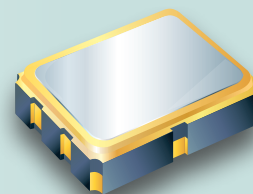


# SMD LVPECL VCXO - Differential Output 3.2 x 2.5 x 0.95 mm DJ Series

## Features

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

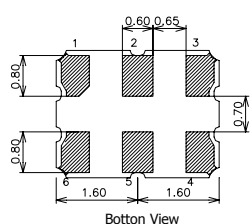
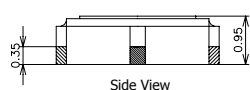
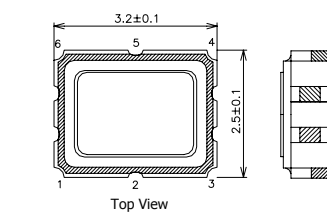


## Electrical Specifications

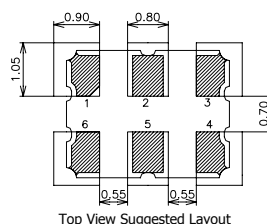
| Item / Type                                    | DJ                                                               |
|------------------------------------------------|------------------------------------------------------------------|
| Output Type                                    | LVPECL                                                           |
| Output Load                                    | 50 $\Omega$ to VDD - 2V                                          |
| Oscillation Mode                               | Fundamental                                                      |
| Supply Voltage (VDD)                           | 3.3 V                                                            |
| Frequency Range                                | 50 ~ 200 MHz                                                     |
| Operating Temperature Range                    | - 10 ~ + 70 $^{\circ}$ C , - 40 ~ + 85 $^{\circ}$ C , or specify |
| 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                        | 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  $^{\circ}$ C, variation over temperature, supply voltage, and aging.)

## Dimensions



PAD FUNCTION:  
1: CONTROL VOLTAGE  
2: ENABLE CONTROL or NC  
3: GND  
4: OUT  
5: NC  
6: VDD



Units: mm