# Telecom OC48 VCXO

- *622.08 MHz Osc*
- *PECL Output*

## Applications

- *SDH / SONET*
- *Digital Switching*
- *Test Equipment*
- *Cellular Telephony*
- *Land Mobile Radio*

**Series** CVFSE

RoHS COMPLIANT 2002 / 95 / EC

**Part Numbering Example: CVFSE Z**

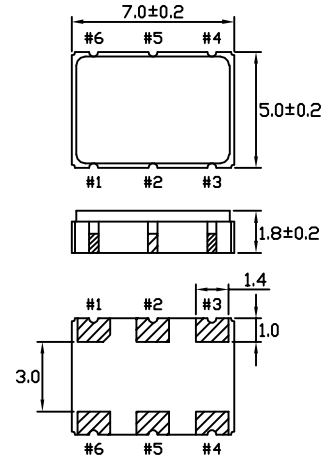
| Specifications: | Min | Typ | Max | Unit |
|---|---|---|---|---|
| **Frequency Range:** | | 622.08 | | MHz |
| **Available Stability Options:** | -30 | | 30 | ppm |
| **Supply Voltage:** | 3.135 | 3.3 | 3.465 | V |
| **Operating Temperature** Range Options: | -10 | | 85 | °C |
| **Storage Temperature:** | -55 | | 125 | °C |
| **Duty Cycle:** | 45 | | 55 | % |
| **Start-Up Time:** | | 3 | 10 | mS |
| **Aging (PPM/1st Year):** Ta=25C, Vdd=3.3V | | | ±5 | |
| **Static Discharge Voltage** Mil-Std 883, method 3015 | 2000 | | | V |
| **Supply Current** | | | 100 | mA |
| **Short Circuit Current** | | ± 50 | | mA |
| **Jitter (RMS)**<br>Integrated (12KHz - 20MHz)<br>Period | | <br>3<br>10 | <br>4 | <br>pS<br>pS |
| **Phase Noise**<br>@10KHz Offset | | -118 | | dBc/Hz |
| **Output Voltage**<br>Voh<br>Vol<br>Rl = 50Ω – (Vdd - 2V) | Vdd - 1.025 | | <br>Vdd - 1.62 | <br>V<br>V |
| **Rise / Fall Time**<br>Clock Rise (tr)<br>Clock Fall (tf) | | <br>0.6<br>0.5 | <br>1.5<br>1.5 | <br>nS<br>nS |
| **Vcon Modulation BW** | 25 | 0V ≤ Vcon ≤ 3.3V<br>-3dB | | KHz |
| **Pull Range** | -190 | | 190 | ppm |
| **Linearity** | 5 | | 10 | % |
| **Frequency Tuning Range** | | 115 | | ppm/V |

| | |
|---|---|
| **Output Level:** | PECL |
| **Packaging:** | Tape & Reel |

Notes: Extended exposure exceeding maximum ratings may cause permanent damage and affect reliability. Operation outside of specifications is not supported.

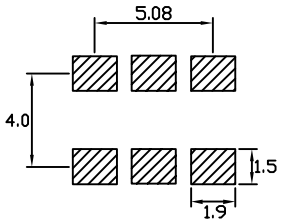
**Cardinal Components, Inc., 155 Rt. 46 W, Wayne, NJ. 07470 TEL: (973)785-1333 FAX: (973)785-0053**
**http://www.cardinalxtal.com E-Mail: cardinal@cardinalxtal.com**

## CVFSE

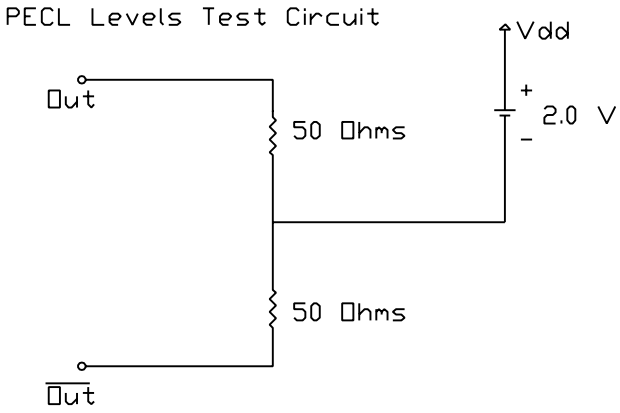



| PIN | FUNCTION |
|---|---|
| 1 | VCONTROL |
| 2 | OE |
| 3 | GND |
| 4 | PECL + |
| 5 | PECL - |
| 6 | Vdd |

DIMENSIONS ARE IN MM




## LEVELS TEST CIRCUIT




## OUTPUT SKEW