

## Telecom OC48 VCXO

- 622.08 MHz Osc
- Low Phase Noise
- LVDS Output

## Applications

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

Series

CV622V



Part Numbering Example: CV622V Z

| Specifications:                                                                   | Min         | Typ                      | Max   | Unit                 |
|-----------------------------------------------------------------------------------|-------------|--------------------------|-------|----------------------|
| Frequency Range:                                                                  |             | 622.08                   |       | MHz                  |
| Available Stability Options:                                                      | -50         |                          | 50    | 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):<br>Ta=25C, Vdd=3.3V                                         |             |                          | ±5    |                      |
| Static Discharge Voltage<br>Mil-Std 883, method 3015                              | 2000        |                          |       | V                    |
| Supply Current                                                                    |             |                          | 80    | mA                   |
| Short Circuit Current                                                             |             | ± 50                     |       | mA                   |
| Jitter<br>Period, RMS<br>Period, Peak to Peak<br>Accumulated, RMS<br>Peak to Peak |             | 4<br>25<br>7<br>45       |       | pS<br>pS<br>pS<br>pS |
| Phase Noise<br>@1KHz Offset                                                       |             | -125                     |       | dBc/Hz               |
| 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:                                                                     | LVDS        |                          |       |                      |
| Packaging                                                                         | Tape & Reel |                          |       |                      |

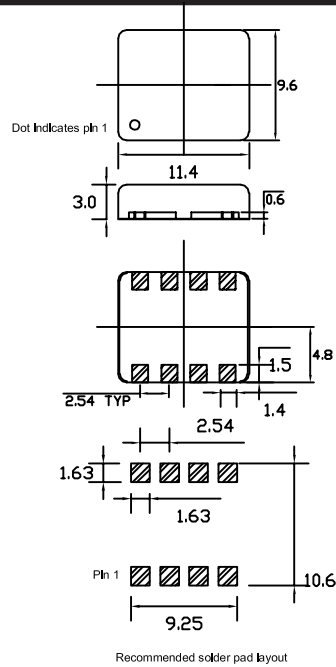
Notes: Extended exposure exceeding maximum ratings may cause permanent damage and affect reliability. Operation outside of specifications is not supported.

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Specifications subject to change without notice. Check website for latest updates



CV622V

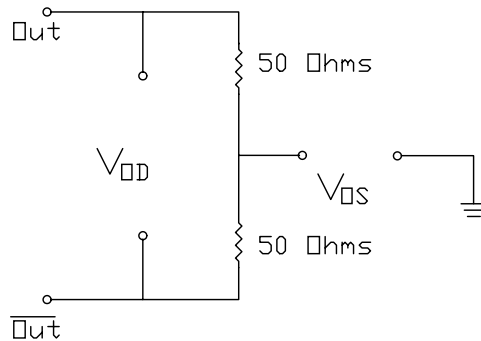


| PIN | FUNCTION             |
|-----|----------------------|
| 1   | OE                   |
| 2   | V <sub>CONTROL</sub> |
| 3   | N/C                  |
| 4   | GND                  |
| 5   | LVDS +               |
| 6   | LVDS -               |
| 7   | N/C                  |
| 8   | V <sub>DD</sub>      |

DIMENSIONS ARE IN MM

LEVELS TEST CIRCUIT

LVDS Levels Test Circuit



SWITCHING TEST CIRCUIT

LVDS Switching Test Circuit

