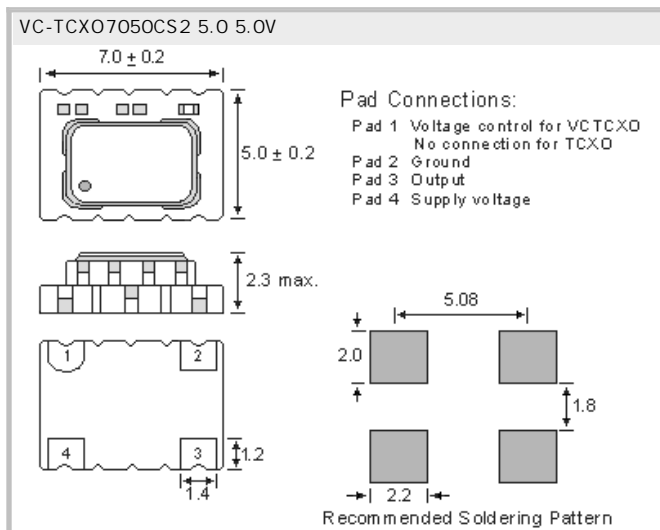




VC-TCXO-Oscillator SMD VC-TCXO7050CS2 5.0 5.0V  
Clipped Sine Wave

- Voltage Control Temperature Compensated Crystal Oscillator
- SMD in ceramic case (7.0 x 5.0 x 2.3) mm on Tape & Reel
- Electrical Frequency Tuning (EFC) by external Control voltage
- Clipped Sine Wave Output; Wave form code is " CS "
- RoHS conform; Lead-free product
- Vibration: MIL-STD-202F method 204, 35G, 50 to 2000 Hz
- Shock: MIL-STD-202F method 213B, test cond. E, 1000GG 1/2 sine wave
- Available in many standard and special frequencies



Clipped Sine Wave Output



## Specifications - Product No. G01600000BVWV PN43JE

|                                      |   |
|--------------------------------------|---|
| Holder Type:                         | VC-TCXO7050CS2 5.0 5.0V (Voltage code is " 5.0 ")   |
| Frequency:                           | 16.000000 MHz   |
| Output Voltage Level (peak to peak): | 0.8Vp-p (min.)  |
| Input Voltage:                       | + 5.0V ± 10%  |
| Frequency Stability:                 | ± 1.0 ppm at 25°C   |
| Freq. Stability vs Temperature:      | ± 1.0 ppm from -40°C to +85°C   |
| Freq. Stability vs Aging:            | ± 1.0 ppm, first year at 25 °C  |
| Freq. Stability vs Voltage Change:   | ± 0.2 ppm max., for a ± 5% input voltage change   |
| Freq. Stability vs Load Change:      | ± 0.2 ppm max., for a ± 10% load condition change   |
| Operating Temperature Range:         | -40°C to +85°C  |
| Maximum Supply Current:              | 2.0 mA max.   |
| Pin 1 VCTCXO only (EFC):             | Control Voltage Center: 1.5V ± 1.0V<br>Deviation Range: ± 5.0 ppm ( min. ) , Vcontrol = + 1.5 V ± 1.0 V.<br>Input Impedance: 1MΩ min.; Linearity: ± 10% max.<br>Modulation Bandwidth: 3kHz min. |
| Start Up Time:                       | 2 ms (typ.) ; 5ms (max.) (reach 90% amplitude and at +25°C ± 2°C)   |
| Output Load:                         | 10kΩ // 10pF ± 10%  |
| Phase Noise (13MHz as example):      | -80dBc/Hz at 10Hz offset, -115dBc/Hz at 100Hz offset<br>-135dBc/Hz at 1kHz offset, -148dBc/Hz at 10kHz offset<br>-148dBc/Hz at 100kHz offset  |
| Storage Temperature:                 | -40°C to +85°C or -55 to +125°C (Package dependent)   |
| Reflow Condition:                    | 260°C max. for 10 sec.  |

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