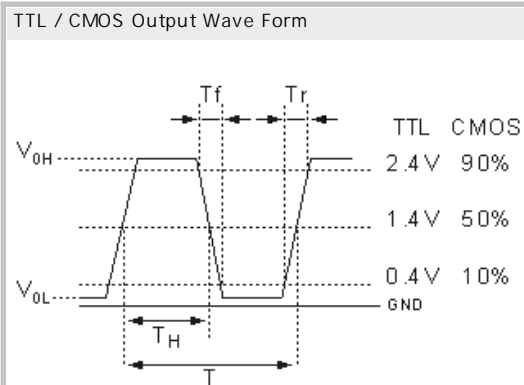
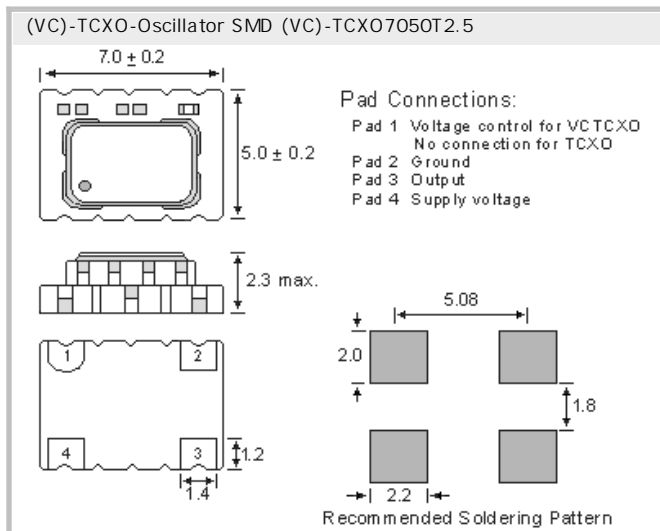




VC-TCXO-Oscillator SMD VC-TCXO7050T2.5 2.5V

- Voltage Control
Temperature Compensated Crystal Oscillator
- SMD in ceramic case (7.0 x 5.0 x 2.3) mm
- TTL / CMOS Square Wave Output;
Wave form code is " T "
- RoHS conform; Lead-free product; Tape & Reel
- 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



Specifications

| | |
|---|--|
| Holder Type: | VC-TCXO7050T2.5 2.5V (Voltage code is " 2.5 ") |
| Frequency Range: | 1.25 MHz to 40.0 MHz |
| Standard Frequencies (Part list): | 10.0, 12.8, 13.0, 14.4, 15.36, 16.384, 19.2, 19.44, 19.68, 25.0, 20.0, 27.0 MHz |
| Frequency Stability: | ± 0.5ppm to ± 3.0ppm |
| Freq. Stability vs Temperature: | 0° to 50° C (± 0.5ppm) to -40 to +85° C (± 1.0 to ± 3.0ppm) |
| Freq. Stability vs Aging: | ± 1.0 ppm, first year at 25 °C |
| Freq. Stability vs Voltage Change: | ± 0.3 ppm, for a ± 5% input voltage change |
| Freq. Stability vs Load Change: | ± 0.3 ppm, for a ± 10% load condition change |
| Maximum Supply Current: | 10 mA max. |
| Output Load: | 15pF |
| Output Logic Levels: | Logic High "1" : 90% V _{dd} min.; Logic Low "0" : 10% V _{dd} max. |
| Output Symmetry (Duty Cycle): | 40/60% normal, 45/55% tight at 50% |
| Pin 1 Options VCTCXO only: | Control Voltage: Standard + 1.5V ± 1.0V for all input voltages. Slope Polarity: Positive slope. Positive voltage for positive frequency shift. Input Impedance: 50kOhm min.; Linearity ± 10% max. Modulation Bandwidth (at-3 dB) : 20kHz min. |
| Pin 1 Frequency Deviation Range: | ± 5.0 ppm (min.) with V _{con} = + 1.5V ± 1.0V |
| Rise/Fall Time (10% to 90% V _{dd}): | 10.0 nsec. max., 20% to 80% of the wave form |
| Phase Noise (typical) 10MHz: | -110dBc/Hz at 100Hz offset -125dBc/Hz at 1kHz offset -132dBc/Hz at 10kHz offset -125dBc/Hz at 100kHz offset |
| Start Up Time: | 10 ms (max.), 5ms (typ.) |
| Storage Temperature: | -55 to + 125° C |
| Reflow Condition: | 260° C max. for 10 sec. |

GERMANY:

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