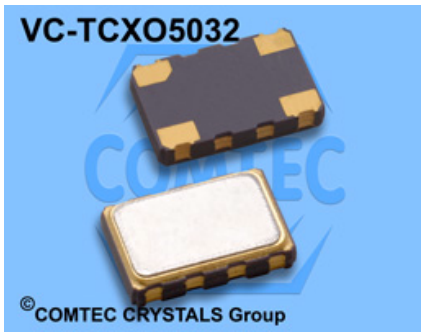
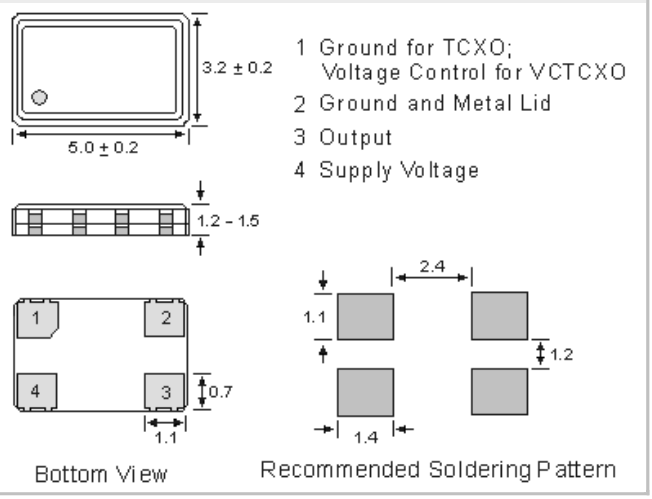


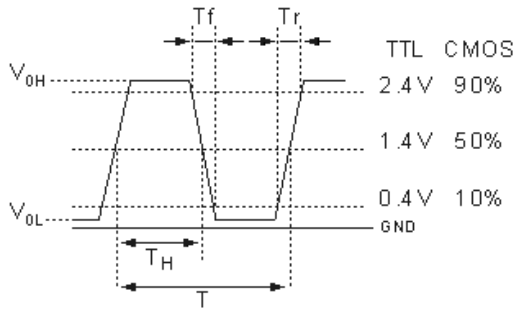

(VC)-TCXO-Oscillator SMD (VC)-TCXO5032T3.3 3.3V CMOS/TTL

- Voltage Control Temperature Compensated Crystal Oscillator
- SMD in ceramic case (5.0 x 3.2 x 1.2) mm
- CMOS/TTL Square Wave Output; Wave form code is " T "
- on Tape & Reel
- 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

VC-TCXO-Oscillator SMD VC-TCXO5032T3.3




CMOS/TTL Output Wave Form




## Specifications - Product No. G010000000CQYUPN43JA

| | |
|---|---|
| Holder Type: | (VC)-TCXO-Oscillator SMD (VC)-TCXO5032T3.3 3.3V CMOS/TTL |
| Frequency: | 10.000000 MHz |
| Input Voltage: | + 3.3V ± 10% |
| Frequency Stability: | ± 1.5 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: | ± 0.3 ppm, for a ± 5% input voltage change |
| Freq. Stability vs Load Change: | ± 0.3 ppm, for a ± 10% load condition change |
| Operating Temperature Range: | -40°C to +85°C |
| Maximum Supply Current: | 6.0 mA max. |
| Output Load: | 15pF |
| Output Logic Levels: | Logic High "1" : 90% Vdd min. // Logic Low "0" : 10% Vdd min. |
| Rise/Fall Time (10% to 90%Vdd): | 10.0 nsec. max., 20% to 80% of the wave form |
| Voltage Control on pin 1 (EFC): | Electronic Frequency Tuning (EFC) |
| Pin 1 Options VCTCXO only (EFC): | Control Voltage: Standard +1.5V ± 1.0V for all input voltages.<br>Slope Polarity: Positive slope. Positive voltage for positive frequency shift.<br>Input Impedance: 50kOhm min.; Linearity ±10% max.<br>Modulation Bandwidth (at-3 dB) : 20kHz min. |
| Frequency Deviation Range (EFC): | ± 5.0ppm (min.) with Vcon = +1.5V ±1.0V |
| Output Symmetry (Duty Cycle): | 40/60% ; Measured at 50% Vdd |
| Rise/Fall Time CMOS: | 10.0ns (max.) 20% <--> 80% Vdd of the wave form |
| Start Up Time: | 10 ms (max.), 5ms (typ.) |
| Integrated Phase Jitter: | 1 ps max. (12 kHz to 20 MHz) |
| Phase Noise (10.00MHz 3.3V): | - 96dBc/Hz at 10Hz offset -122dBc/Hz at 100Hz offset<br>-138dBc/Hz at 1kHz offset -145dBc/Hz at 10kHz offset<br>-150dBc/Hz at 100kHz offset |
| Storage Temperature: | -55 to +105°C |
| Reflow Condition: | 260°C max c. |

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