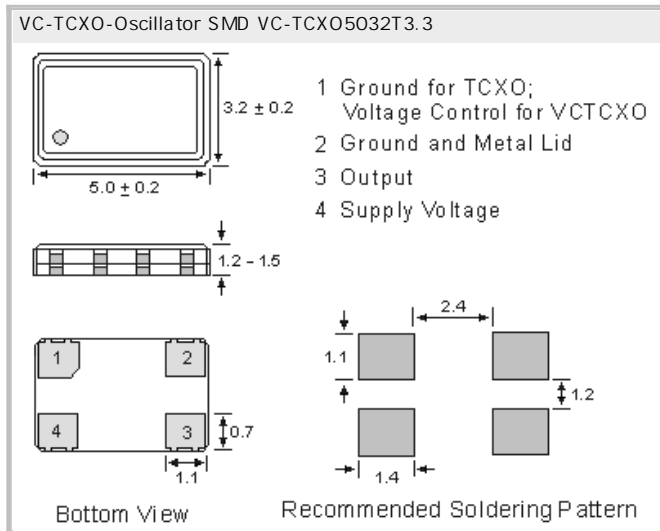
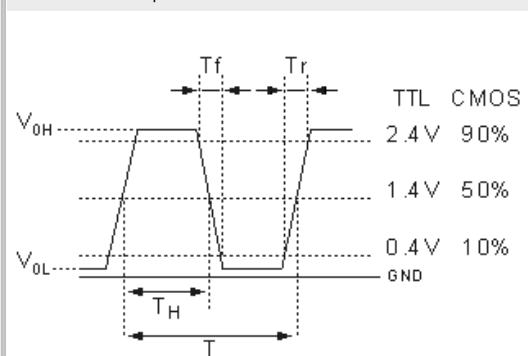


(VC)-TCXO-Oscillator SMD
(VC)-TCXO5032T3.3 3.3V CMOS/TTL

- 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



CMOS/TTL Output Wave Form



Specifications

Holder Type:	(VC)-TCXO-Oscillator SMD (VC)-TCXO5032T3.3 3.3V CMOS/TTL
Frequency Range:	6.4 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, 38.88, 40.0 MHz
Input Voltage:	+ 3.3V ± 10%
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
Current Consumption:	6mA typical
Output Load:	15pF
Output Logic Levels:	Logic High "1" : 90% Vdd min. // Logic Low "0" : 10% Vdd min.
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. Slope Polarity: Positive slope. Positive voltage for positive frequency shift. Input Impedance: 50kOhm min.; Linearity ± 10% max. 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% normal, 45/55% tight at 50%
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 -138dBc/Hz at 1kHz offset -145dBc/Hz at 10kHz offset -150dBc/Hz at 100kHz offset
Storage Temperature:	-55 to + 105°C
Reflow Condition:	260°C max. for 10 sec.

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