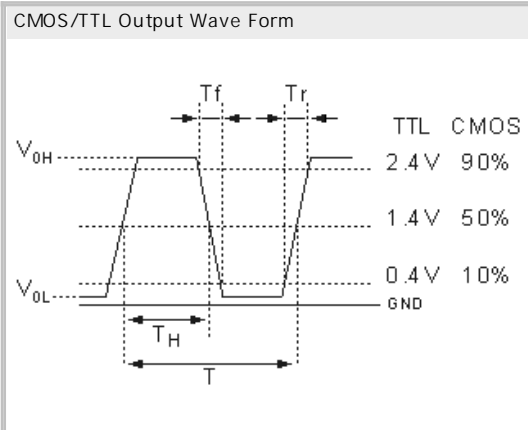
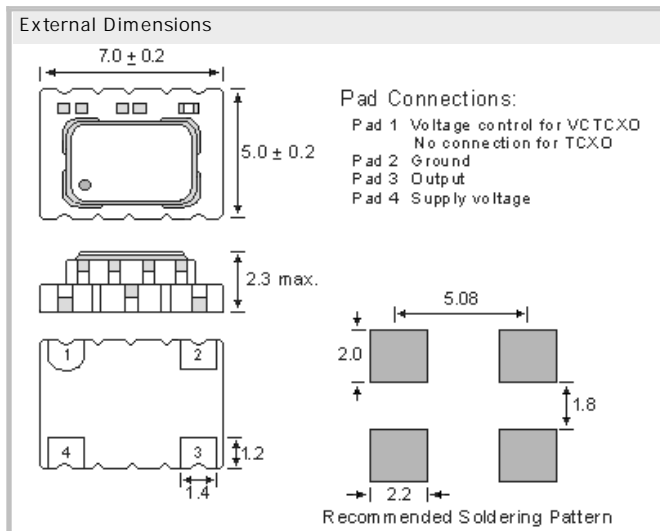


VC-TCXO-Oscillator SMD VC-TCXO7050TV3.3 3.3V CMOS

- Voltage Control Temperature Compensated Crystal Oscillator
- SMD in ceramic case (7.0 x 5.0 x 2.3) mm
- 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



## Specifications

Holder Type:	VC-TCXO7050TV3.3 3.3V (Voltage code is " 3.3 ")
Frequency Range:	27.00 MHz to 200.0 MHz
Standard Frequency (MHz, Partial List):	30.000, 32.768, 38.880, 40.000, 50.000, 54.000, 64.000, 77.760, 80.000, 100.000, 128.000, 155.520, 160.000, 200.000
Input Voltage:	+ 3.3Vdd ± 5%
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 (max.):	40 mA Frequency dependent
Output Load:	15pF
Output Logic Levels:	Logic High "1" : 90% Vdd min. Logic Low "1" : 10% Vdd min.
Output Symmetry (Duty Cycle):	50% ± 5% measured at 50% Vdd
Pin 1 Options VCTCXO only:	Control Voltage: Standard +1.5V ± 1.0V for all input voltages. Slope Polarity: Positive slope: Increasing control voltage (Vcon) increases output frequency Input Impedance: 2MΩ min.; Linearity ± 10% max. Modulation Bandwidth: 25kHz min.
Rise/Fall Time CMOS:	1.2ns typical (0.3V <-> 3.0V, 15pF load)
Start Up Time:	5.0 ms (typ.), 10.0ms ( max.) (reach 90% amplitude and at + 25° C ± 2° C)
Phase Noise (77.76MHz/155.52MHz):	-76/ -65dBc/Hz at 10Hz , -105/ -96dBc/Hz at 100Hz, -116/-110dBc/Hz at 1kHz , -120/-112dBc/Hz at 10kHz, -121/-115dBc/Hz at 100kHz
Storage Temperature:	-55 to + 125° C
Reflow Condition:	260° C max. for 10 sec.

### GERMANY:

COMTEC CRYSTALS GmbH · Sultenstrasse 12-14  
8 5 5 8 6 P o i n g / G E R M A N Y  
Phone +49 8121 778160 · Fax +49 8121 778177  
e-Mail [info@comtec-crystals.com](mailto:info@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Subject to change without prior notice.



Technical Data and Graphics are all under  
Copyright (c) of Comtec Crystals Group.

### FRANCE:

COMTEC CRYSTALS SARL · 23, rue du Faucon  
6 7 5 0 0 H a g u e n a u / F R A N C E  
Phone +33 388 732162 · Fax +33 388 730118  
e-Mail [sales@comtec-crystals.com](mailto:sales@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Sous réserve de modifications.