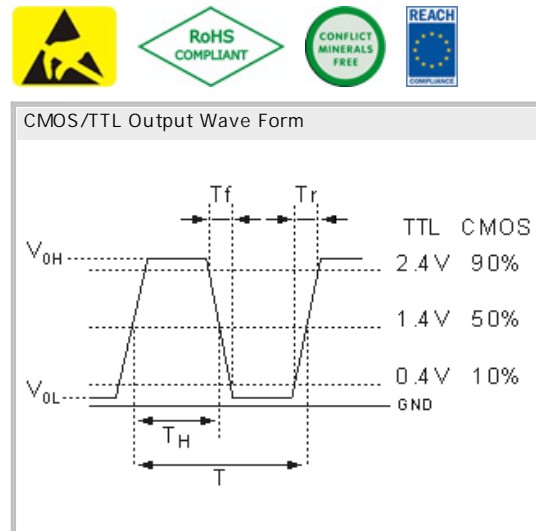
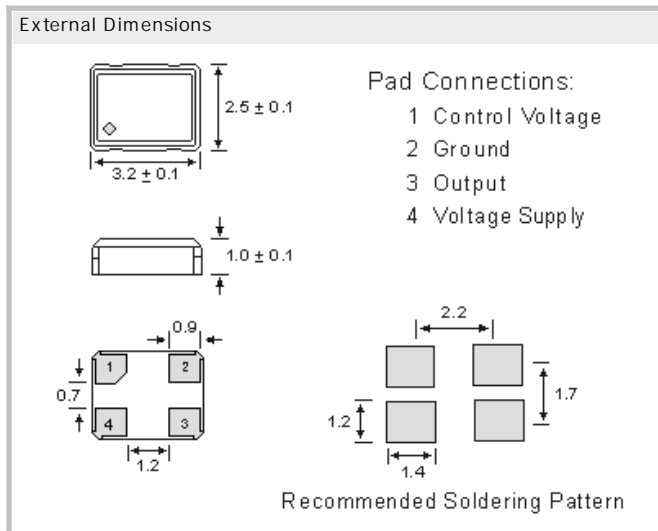


VCXO-Oscillator SMD VCXO3225T5.0-4pad 5.0V  
Voltage Controlled Crystal Oscillator

- Output Wave Form CMOS/TTL
- SMD in ceramic case (3.2 x 2.5 x 1.0) mm
- 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



## Specifications

Holder Type:	VCXO3225T5.0-4pad 5.0V (Voltage code is "5.0")
Frequency Range:	1.000 MHz to 50.0 MHz ( Fun. frequency crystal used )
Initial Freq. Accuracy (at 25 °C):	To tune to the nominal frequency with Vc = 2.5V ± 0.2V
Frequency Stability at 25°C/Deviation:	± 25ppm (typ.) , ± 50ppm, ± 100ppm / ± 100ppm (typ.) , ± 150ppm
Operating Temperature Range:	-10° C to +70° C / -40° C to 85° C, Storage Temp. -50° C to +105° C
Power Supply Voltage (Vdd):	+ 5.0V DC ± 10%
Maximum Supply Current:	35 mA max. ( Frequency dependent)
Output Load:	2 TTL gates max. / CMOS 15pF (typ.)
Output "1" Level (VOH):	2.4V (min.) TTL   4.5V (min.) CMOS
Output "0" Level (VOL):	0.4V (min.) TT   0.5V (min.) CMOS
Output Symmetry (Duty Cycle):	40/60% (45/55% optional)
Voltage Control:	2.5V DC Center / 0.50V to 4.5V Range
Linearity:	6% typical; 10% max.
Rise/Fall Time:	6ns (max.) 4ns (typ.) Measured between 0.4V and 2.4V
Integrated Phase Jitter:	1 ps max. (12 kHz to 20 MHz)
Phase Noise (27MHz at 3.3V):	-75dBc/Hz at 10Hz offset -145dBc/Hz at 10kHz offset -104dBc/Hz at 100Hz offset -148dBc/Hz at 100kHz offset -132dBc/Hz at 1kHz offset -150dBc/Hz at 1MHz offset
Start Up Time:	10 ms (max.), 5ms (typ.)
Aging:	± 3 ppm per year (max.)
Reflow Condition:	10 sec. max. at 260° C

### 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.