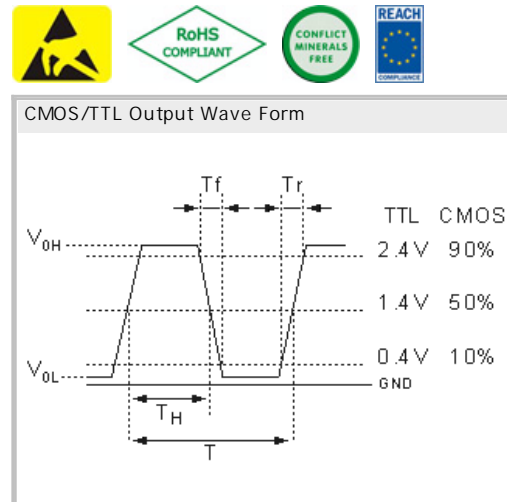
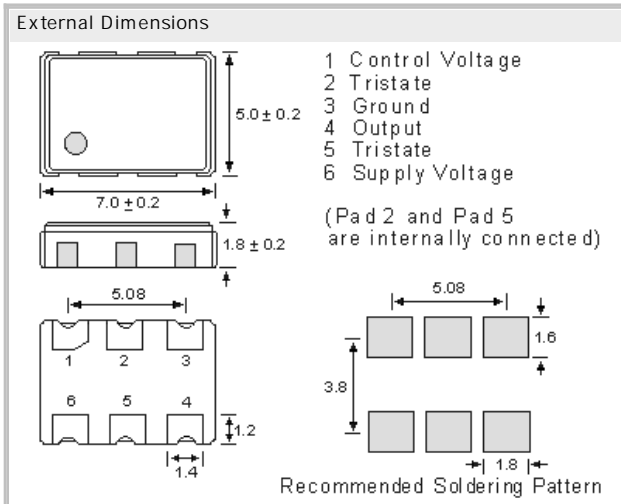


VCXO-Oscillator SMD VCXO7050T2.5 2.5V  
Voltage Controlled Crystal Oscillator

- Output Wave Form CMOS
- SMD in ceramic case (7.0 x 5.0 x 1.8) 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 - Product No. G01200000DTSUPC00AA

Holder Type:	VCXO7050T2.5 Tristate 2.5V (Voltage code is " 2.5 ")
Frequency:	12.000000 MHz
Initial Freq. Accuracy (at 25 °C):	To tune to the nominal frequency with $V_c = 1.25V \pm 0.2V$
Freq. Stability o.Operating Temp. Range:	$\pm 25.0$ ppm
Operating Temperature Range:	$\pm 25.0$ ppm over $-20^\circ C$ to $+70^\circ C$ (inclusive of $25^\circ C$ tolerance, $\pm 10\%$ input voltage variation, load change, aging, shock and vibration)
Frequency Deviation:	$\pm 100$ ppm
Power Supply Voltage (Vdd):	+2.5V DC $\pm 5\%$
Maximum Supply Current:	15.0 mA
Output Load CL:	CMOS 15 pF
Output "1" Level (VOH):	2.25V (min.) CMOS
Output "0" Level (VOL):	0.25V (max.) CMOS
Output Symmetry (Duty Cycle):	40/60%
Tri-state Function:	Tri-state Enable High. No connection or Vdd- 0.5Vmin.is applied to a Tri-state pid to enable output. Ground+ 0.5Vmax. to disable output (high impedance).
Modulation Bandwidth (at -3 dB):	10KHz min, Vcontrol at 1.65V or at 2.5V
Voltage Control:	1.25V DC Center / 0.25V to 2.25V Range
Linearity:	6% typical; 10% max.
Rise/Fall Time TTL:	6ns (max.) 4ns (typ.) Measured between 0.4V and 2.4V
Rise/Fall Time CMOS:	6ns (max.) 4ns (typ.) Measured between 20% and 80% Vdd of the wave form (CL = 15pF)
Integrated Phase Jitter:	1 ps max. (12 kHz to 20 MHz)
Phase Noise (27MHz at 3.3V):	-40dBc/Hz at 10Hz offset -147dBc/Hz at 10kHz offset -104dBc/Hz at 100Hz offset -152dBc/Hz at 100kHz offset -132dBc/Hz at 1kHz offset -150dBc/Hz at 1MHz offset
Start Up Time:	10 ms (max.), 5ms (typ.)
Aging:	$\pm 3$ ppm per year (max.)
Input Impedance:	1 MOhm typical
Reflow Condition:	10 sec. max. at $260^\circ C$

### 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.