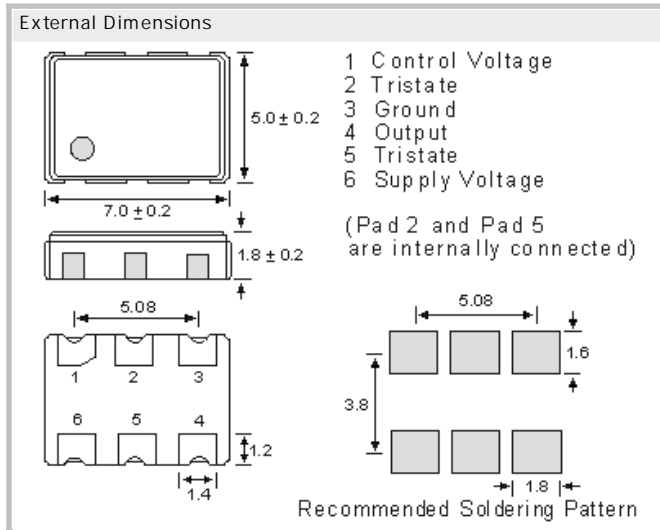
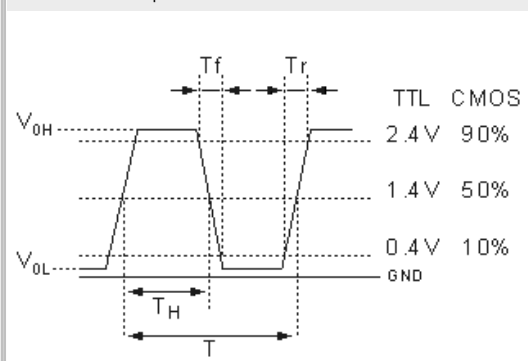


VCXO-Oscillator SMD VCXO7050T1.8 1.8V
Voltage Controlled Crystal Oscillator

- 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



CMOS/TTL Output Wave Form



Specifications

Holder Type:	VCXO7050T1.8 Tristate 1.8V (Voltage code is " 1.8 ")
Frequency Range:	16.0 MHz to 50.0 MHz (Fun. frequency crystal used)
Initial Freq. Accuracy (at 25 °C):	To tune to the nominal frequency with Vc = 0.9V ± 0.15V
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):	+1.8V DC ± 5%
Maximum Supply Current:	12 mA max.
Output Load:	2 TTL gates max. / CMOS 15pF (typ.)
Output "1" Level (VOH):	1.62V (min.) CMOS
Output "0" Level (VOL):	0.183V (max.) CMOS
Output Symmetry (Duty Cycle):	40/60% (45/55% optional)
Tri-state Function:	Tri-state Enable High. No connection or Vdd- 0.5Vmin.is applied to a Tri-state 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:	0.9V DC Center / 0.0V to 1.8V 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)
Period Jitter:	RMS 2.0 ps (typ.) / Peak to Peak 14 ps max.
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:	± 3 ppm per year (max.)
Input Impedance:	1 M Ohm typical
Reflow Condition:	10 sec. max. at 260°C

GERMANY:

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