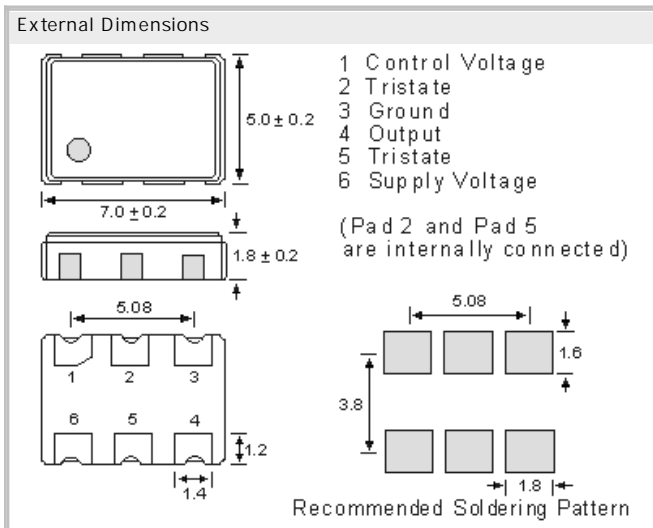
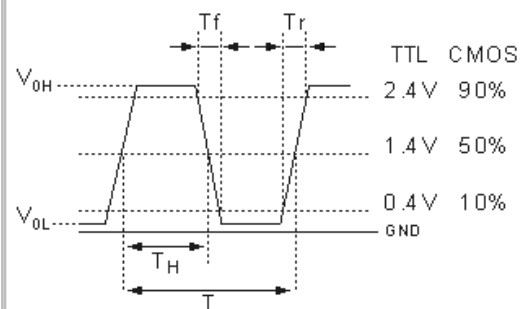


VCXO-Oscillator SMD VCXO7050T5.0-6pad, 5.0V Voltage Controlled Crystal Oscillator

- CMOS/TTL Output Wave Form
- SMD in ceramic case (7.0 x 5.0 x 1.8) mm, on Tape & Reel (Tape 16mm)
- with Tri-State Function, 3.3 V
- 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:	VCXO7050T5.0-6pad 5.0V (Voltage code is " 5.0 " ) Tri-State
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 $V_c = 2.5V \pm 0.2V$
Frequency Stability at 25°C//Deviation:	$\pm 25ppm$ (typ.) , $\pm 50ppm$ , $\pm 100ppm$ // $\pm 100ppm$ (typ.) , $\pm 150ppm$
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 $\pm 10\%$
Maximum Supply Current:	10 - 35 mA (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 (max.) TTL / 0.5V (max.) CMOS
Output Symmetry (Duty Cycle):	40/60% or 45/55%
Tri-State Function:	Tri-State Enable High. No connection or $V_{dd} - 0.5V_{min}$ is applied to a Tri-state pin to enable output. Ground+0.5Vmax. to disable output (high impedance).
Modulation Bandwidth (at -3 dB):	10KHz min, $V_{control}$ at 1.65V or at 2.5V
Voltage Control:	2.5V DC Center / 0.5V to 4.5V 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% $V_{dd}$ 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; -104dBc/Hz at 100Hz; -132dBc/Hz at 1kHz , -147dBc/Hz at 10kHz; -152dBc/Hz at 100kHz; -150dBc/Hz at 1MHz
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°C

### GERMANY:

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