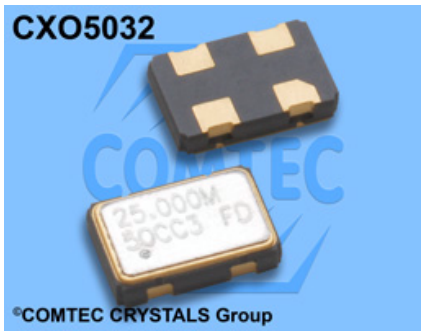
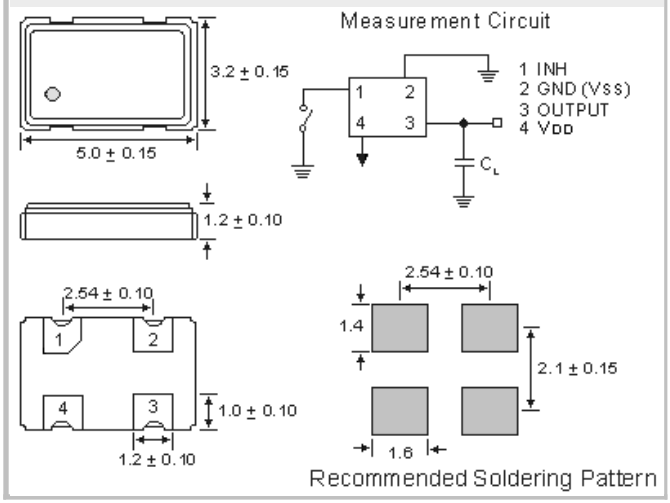
COMTEC CRYSTALS Group Data Sheet



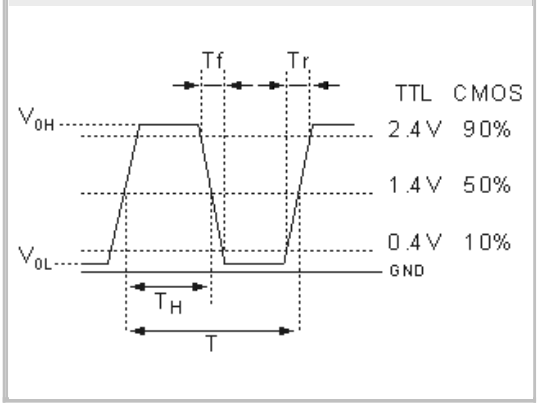
Crystal Clock Oscillator Wide Operating Temperature
CXO5032TY1.8 1.8V LVCMOS Over -40°C to +125°C

- SMD in ceramic case (5.0 x 3.2 x 1.2) mm
- Tri-State Enable / Disable
- LVCMOS Square Wave
- on Tape & Reel (Tape 16mm)
- 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

Crystal Clock Oscillator CXO5032TY1.8 LVCMOS



CMOS/TTL Output Wave Form



Specifications

Holder Type:	Crystal Clock Oscillator CXO5032TY1.8 1.8V CMOS/TTL
Frequency Range:	1.25 MHz ~ 50 MHz
Frequency Stability at 25°C:	±25 to ±100 ppm
Operating Temperature Range:	over -40°C to +125°C ±25 to ±100 ppm (Inclusive Operating Temp., Supply Voltage, & Load)
Storage Temperature:	-65°C to +150°C
Power Supply Voltage (Vdd):	+ 1.8V D.C. ± 10%
Maximum Supply Current:	2mA max. (1.25MHz ~ 20MHz) ; 4mA max. (20MHz ~ 50MHz)
Output Load:	15pF
Output Symmetry (Duty Cycle):	40/60% (45/55% optional)
Output Voltage (V0H) (V0L):	90% of Vdd min. / 10% of Vdd max.
Rise/Fall Time (10% to 90% Vdd):	10 ns max.
Start Up Time:	1.25 ~ 50.0 MHz : 5 ms (max.)
Tri-state Function Pin 1:	Pin 1 = H or open.... Output active at pin 3 Pin 1 = L.... high impedance at pin 3
Phase Jitter (12 kHz to 20 MHz):	150 fs (typical)
SSB Phase Noise:	-94dBc/Hz @ 10Hz, -127dBc/Hz @ 100Hz, -142dBc/Hz @ 1kHz -156dBc/Hz @ 10kHz, -161dBc/Hz @ 100kHz, -163dBc/Hz @ 1MHz -163dBc/Hz @ 10MHz
Aging:	< ±2ppm max. for the first year (max.)
Reflow Condition:	260°C max. for 10 sec.

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