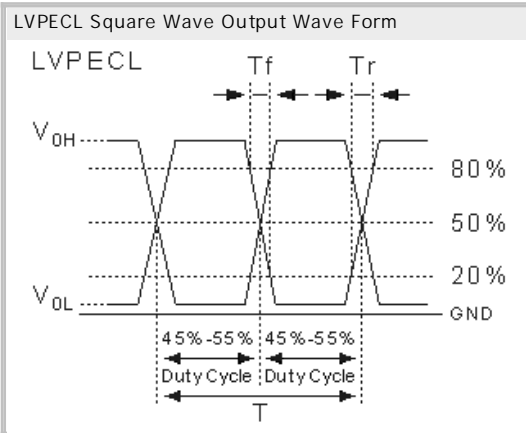
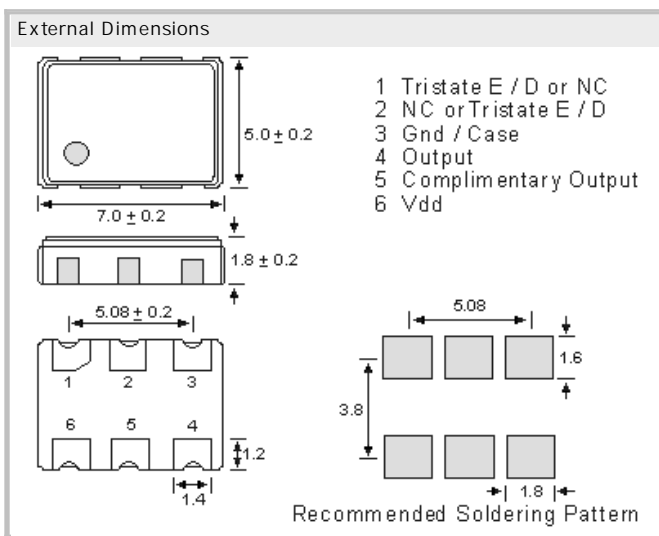


Differential LVPECL Clock Oscillator  
CXO7050PK 3.3, 3.3V, 200 fsec Jitter

- SMD in ceramic case (7.0 x 5.0 x 1.8) mm
- Tri-State Enable / Disable on pad No. 1
- Femto second integrated phase jitter (200 fs typical, 12 KHz to 20 MHz)
- Superior phase noise (-138 dBc/Hz at 10 KHz and -144 dBc/Hz at 100 KHz offset)
- RoHS conform; Lead-free product; on Tape (16mm) & Reel
- 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
- High performance with surprisingly low price



## Specifications

Holder Type:	CXO7050PK 3.3; 3.3V (Voltage code is "3.3"); Tri-State on pad 1
Frequency Range:	13.500 MHz ~ 220.000 MHz
Frequency Stability at 25°C:	± 20 to ± 100 ppm
Operating Temperature Range:	-20°C to +70°C, -40°C to +85°C
Storage Temperature:	-55°C to +150°C
Power Supply Voltage (Vdd):	+ 3.3V D.C. ± 5%
Maximum Supply Current (15pF load):	35mA typical 50mA max.
Output Logic Levels:	High "1" V <sub>oh</sub> V <sub>dd</sub> -1.025V min., V <sub>dd</sub> -0.95 V typical; V <sub>dd</sub> -0.88V max. Condition: R <sub>L</sub> = 50 Ohm to (V <sub>dd</sub> -2.0V) Low "0" V <sub>ol</sub> V <sub>dd</sub> -1.810V min., V <sub>dd</sub> -1.70 V typical; V <sub>dd</sub> -1.62V max. Condition: R <sub>L</sub> = 50 Ohm to (V <sub>dd</sub> -2.0V)
Output Swing:	595 mV min; 750 mV typical; 930 mV max.
Output Symmetry (Duty Cycle):	50% ± 5% max. measured at 50% waveform
Load:	R <sub>L</sub> = 50 Ohm into (V <sub>dd</sub> -2.0V) or Thevenin equivalent (terminating resistors required on all outputs).
Rise/Fall Time:	0.3ns typical, 0.5ns max. @ 20% to 80% of PECL wave form
Start Up Time:	3 ms typical; 10 ms max.
Tri-state Function Pin 1 (or 2):	If no connection or V <sub>dd</sub> * 70% min is applied: Output. Internal pull-up Oscillation disable time is 2ms max. If V <sub>dd</sub> * 30% max is applied: High impedance. 10µA typ., enable time 2ms max.
Phase Jitter (12 kHz to 20 MHz):	200 fs typical
Phase Noise (62.5 MHz):	-50dBc/Hz @ 10Hz, -82dBc/Hz @ 100Hz, -116dBc/Hz @ 1kHz -138dBc/Hz @ 10kHz, -144dBc/Hz @ 100kHz, -149dBc/Hz @ 1MHz
Aging:	< ± 3ppm max. for the first year
Reflow Condition:	260°C max for 10 sec.

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