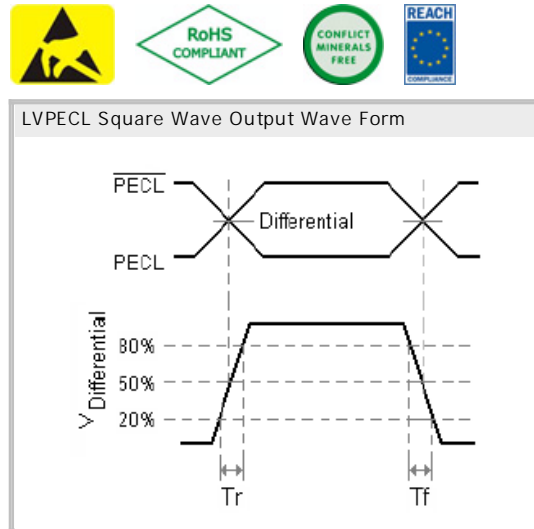
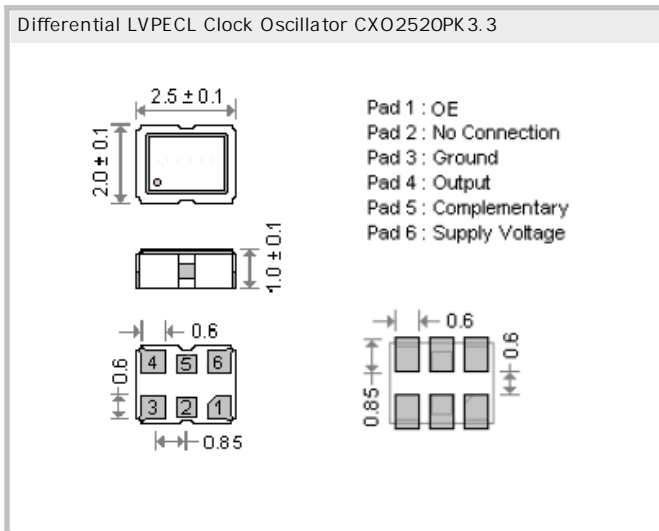


Differential LVPECL Clock Oscillator  
CXO2520PK3.3, 3.3V, 0.2pS Jitter, non PLL

- SMD in ceramic case (2.5 x 2.0 x 1.0) 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 (-135 dBc/Hz at 10 KHz and -142 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:	CXO2520PK3.3; 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):	30mA typical 50mA max.
Output Swing:	595 mV min; 750 mV typical; 930 mV max.
Output Logic Levels:	High "1" Voh Vdd-1.025V min., Vdd-0.95 V typical; Vdd-0.88V max. Condition: RL= 50 Ohm to (Vdd-2.0V) Low "0" Vol Vdd-1.810V min., Vdd-1.70 V typical; Vdd-1.62V max. Condition: RL= 50 Ohm to (Vdd-2.0V)
Output Symmetry (Duty Cycle):	50% ± 5% max. measured at 50% waveform
Load:	RL= 50 Ohm into (Vdd-2.0V) or Thevenin equivalent (terminating resistors required on all outputs).
Rise/Fall Time:	Tr = 0.3ns typical, 0.5ns max. @ 20% -> 80% of PECL wave form Tf = 0.3ns typical, 0.5ns max. @ 80% -> 20% of PECL wave form
Start Up Time:	5 ms typical; 10 ms max.
OE Function Pin 1:	Enable II When 70% min. of VDD to Enable Output. Enable time : 10 ms max. Disable II When 30% max. of VDD to Disable Output. Disable current : 10 µA max. , Disable time : 0.2 µs max.
Phase Jitter (12 kHz to 20 MHz):	0.2 ps typical, 0.5 ps (max.), for 156.250 MHz, 3.3V
Phase Noise ( 156.250 MHz):	-50dBc/Hz @ 10Hz, -80dBc/Hz @ 100Hz, -115dBc/Hz @ 1kHz -135dBc/Hz @ 10kHz, -142dBc/Hz @ 100kHz, -147dBc/Hz @ 1MHz, -152dBc/Hz @ 10MHz
Aging:	< ± 3ppm max. for the first year
Reflow Condition:	260°C max for 10 sec.

### GERMANY:

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