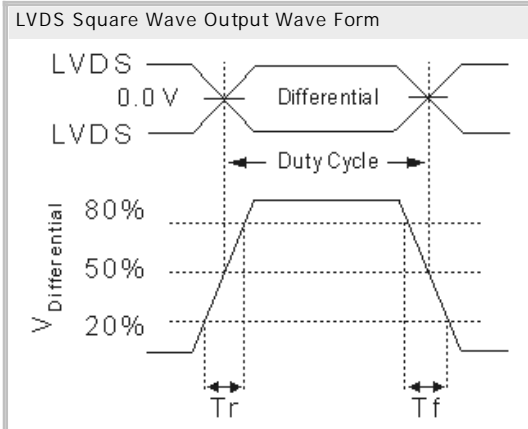
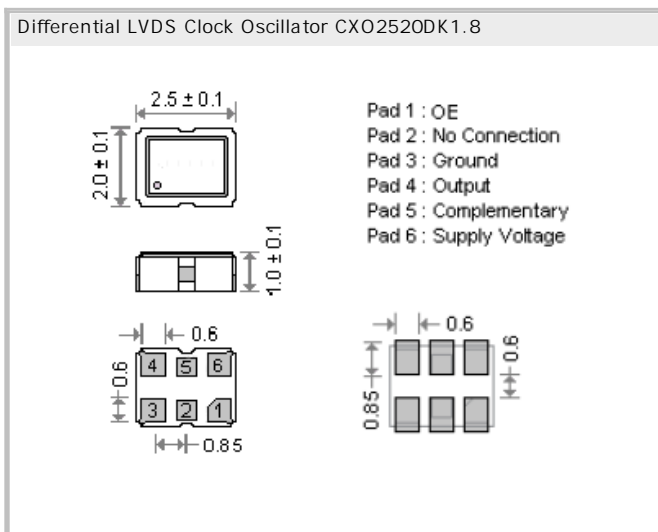


Differential LVDS Clock Oscillator  
CXO2520DK1.8, 1.8V, 0.2 psec Jitter, non PLL

- 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 (300 fs typical, 12 KHz to 20 MHz)
- Superior phase noise (-138 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:	Differential LVDS Clock Oscillator CXO7050DK2.5; 2.5V; Tri-State on pad 1
Frequency Range:	13.500 MHz ~ 220.000 MHz
Frequency Stability at 25°C:	$\pm 20$ to $\pm 100$ 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):	+ 1.8V D.C. $\pm 5\%$
Maximum Supply Current (15pF load):	16mA typical 27mA max.
Output Voltage Swing:	250 mV min; 350 mV typical; 450 mV max. $R_L = 1000\Omega$
Output Logic Levels:	High "1" 1.43V typical; 1.6V max, $R_L = 100\Omega$ ; Low "0" 0.9V min; 1.1V typical, $R_L = 100\Omega$
Output Symmetry (Duty Cycle):	50% $\pm 5\%$ max. measured at 50% waveform
Load:	$R_L = 100\Omega$ between output and complimentary output
Rise/Fall Time:	$T_r = 0.2$ ns. typ; 0.4 ns. max. 20% -> 80% of waveform $T_f = 0.2$ ns. typ; 0.4 ns. max. 80% -> 20% of waveform
Start Up Time:	$\pm 3$ ppm max. first year ; $\pm 2$ ppm max. per year thereafter
Tri-state 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 $\mu$ A max. , Disable time : 0.2 $\mu$ s 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:	< $\pm 3$ ppm max. for the first year
Reflow Condition:	260°C max for 10 sec.

### GERMANY:

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