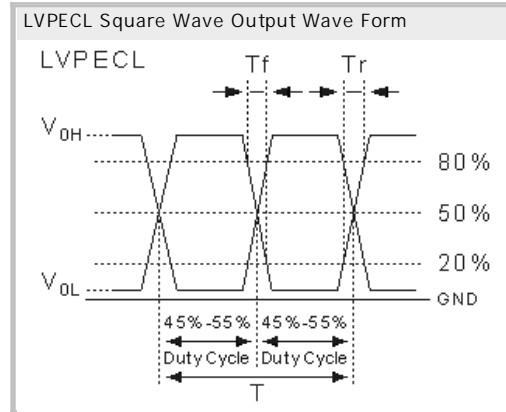
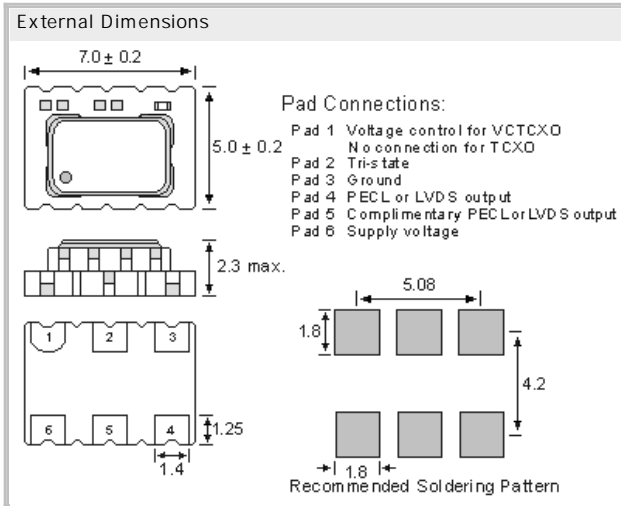


VC-TCXO Oscillator LVPECL Differential
VC-TCXO7050PW3.3 3.3V

- SMD in ceramic case (7.0 x 5.0 x 2.3) mm
- LVPECL Square Wave Output Wave Form
- Low cost, low jitter
- RoHS conform; Lead-free product; Tape & 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
- Available in many standard and special frequencies



Specifications

Holder Type:	VC-TCXO7050PW3.3 3.3V (Voltage code is "3.3"); Tri-State on pad 2
Frequency Range:	10.0 MHz ~ 800 MHz
Freq. Stability vs Temperature:	0° to 50°C (±1.0ppm) to -40 to +85°C (±3.0 to ±5.0ppm)
Freq. Stability vs Aging:	±1.0 ppm, first year at 25°C
Freq. Stability vs Voltage Change:	±0.3 ppm, for a ±5% input voltage change
Freq. Stability vs Load Change:	±0.3 ppm, for a ±10% load condition change
Current Consumption (max.):	10MHz f _{out} 25MHz: 65mA (max); 25MHz f _{out} 100MHz: 85mA (max); 100MHz f _{out} 800MHz: 115mA (max)
Output Symmetry (Duty Cycle):	50% ± 5% measured at V _{dd} -1.3V
Output Load:	50 Ohm to V _{dd} -2.0V / CL = 15pF
Output Logic Levels:	High "1" V _{oh} = 2.275V (min) V _{dd} -1.025min., Condition: RL = 50 Ohm to (V _{dd} -2.0V) Low "0" V _{ol} = 1.680V (max.) V _{dd} -1.620max., Condition: RL = 50 Ohm to (V _{dd} -2.0V)
Rise/Fall Time:	1.5ns max. @ 20% to 80% of PECL wave form
Start Up Time:	5 ms (typ), 10.0ms (max.) (reach 90% amplitude and at +25°C ±2°C)
Pin 1 Options VCTCXO only:	Control Voltage Center, Range: +1.5V ± 1.0V Frequency Deviation Range: ±5.0ppm (min.) with V _{con} = +1.5V ± 1.0V Linearity: 6% typical; 10% max. Slope Polarity: Positive voltage for positive frequency shift
Tri-state Funct. on Pin2, No Connection	Differential PECL and complimentary PECL outputs
Tri-state Function on Pin 2, Disable:	Both outputs are disabled (high impedance) when pad 2 is taken below 0.45*V _{cc} referenced to ground (threshold) Oscillator is always On. Only buffer stage is disabled. Disable current: 50µA max. (at 0.0V), Disable time: 10ns (max.)
Tri-state Function on Pin 2, Enable:	At disabled mode, both outputs are enabled when Tri-state pad is taken above 0.45 V _{cc} referenced to ground (threshold); Enable time: 10ns + one period of the output frequency (max.)
Phase Noise:	Offset 10Hz 100Hz 1kHz 10kHz 100kHz 155.520 MHz : -65dBc/Hz -95dBc/Hz -120dBc/Hz -125dBc/Hz -121dBc/Hz 622.080 MHz : -55dBc/Hz -85dBc/Hz -109dBc/Hz -115dBc/Hz -110dBc/Hz
Phase Jitter (RMS) (12 kHz to 20 MHz):	2.6 ps typ., 4ps max., for 155.520MHz
Period Jitter (typical):	Frequency Range: 38.880MHz 77.760MHz 155.520MHz 622.080MHz (RMS): 2.2ps 3.5ps 4.3ps 5.0ps (Peak to peak): 17.0ps 25.0ps 27.0ps 32.0ps
Temperature:	Storage Temp. -55°C to +125°C / Reflow Condition 260°C max for 10 sec.

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