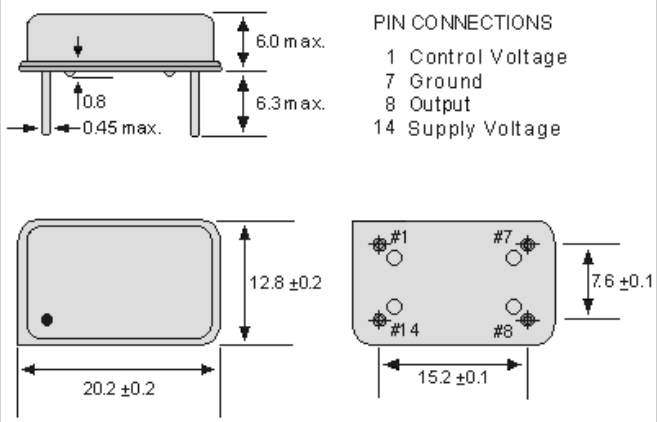
COMTEC CRYSTALS Group Data Sheet

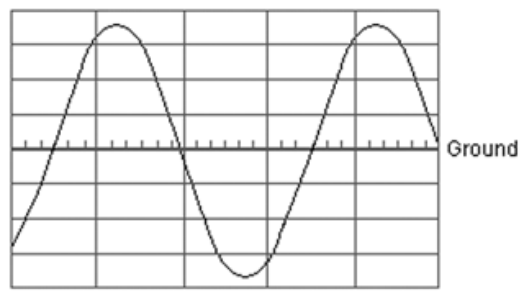
VCXO True Sine Wave VCXO12S3.3 3.3V

- Voltage Controlled Clock Oscillator
- Output Wave Form True Sine Wave
- packed in antistatic tubes
- 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

External Dimensions



True Sine Wave



Specifications

Holder Type:	VCXO12S3.3 3.3V (Voltage code is " 3.3 ")
Frequency Range:	10.000 MHz to 250.000 MHz
Frequency Stability at 25°C:	±20 to ±100 ppm,
Operating Temperature Range:	±20 to ±100 ppm, -20°C to +70°C, -40°C to +85°C (Inclusive Operating Temp., Supply Voltage, & Load)
Frequency Deviation:	±80 ppm min.
Storage Temperature:	-50°C to +100°C
Power Supply Voltage (Vdd):	+ 3.3V D.C. ± 5%
Initial Freq. Accuracy (at 25 °C):	Vc= 1.65V ± 0.2V
Voltage Control:	1.65V DC Center / 0.3V to 3.0V Range
Maximum Supply Current:	9mA typ. 10 MHz 18mA typ. 100 MHz 19mA typ. 150 MHz
Input Impedance:	> 10 k Ohm
Load:	50 Ohm (Internally AC coupied)
Modulation Bandwidth (at -3 dB):	10 kHz min.
Output Wave Form:	True Sine Wave
Output Level:	Standard: +5.0dBm min. Tolerance: ±1dB Maximum Power:+13dBm (User to specifity)
Harmonics:	<-30dBc (frequency dependent)
Sub-Harmonics:	None
Voltage Control Range:	0.0V to Vdd with control voltage center at 50% of Vdd
Linearity:	± 10%
Phase Noise (typical):	125.0 MHz as example -75dBc/Hz at 10Hz; -110dBc/Hz at 100Hz ; -125dBc/Hz at 1kHz , -132dBc/Hz at 10kHz ; -128dBc/Hz at 100kHz ;
Start Up Time:	6.0 ms typical
Aging:	< ±5ppm max. / year (max.)
Reflow Condition:	260°C max. for 10 sec.

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