



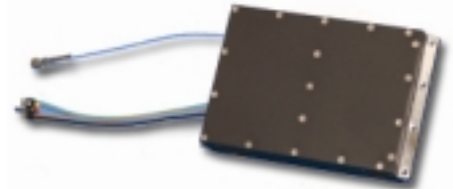
Military and Space > Vibration Environment > Low G Vibration Isolated OCXO

Features:

- 30 to 640 MHz
- Provisions for Vibration Isolation
- Corrosion Resistant
- Low G quartz resonator

Applications:

- Airborne
- Radar
- Tactical Radio
- Vehicular Communication



The Low G Vibration Isolated Oscillator is a VHF oscillator, which is based on Wenzel's Ultra Low Noise Crystal Oscillator. The OCXO has provisions to be vibration isolated via four shock absorbers (vibration isolators) which have a resonate frequency of ~30-40 Hz. By incorporating the shock absorbers we can very efficiently improve the phase noise performance of the oscillator in high vibration induced environments. This system is ideal for rugged land use as well as airborne applications. The OCXO also has several Low Noise Multipliers, which are used to extend the fundamental oscillator to frequencies up to 640 MHz.

Typical Specifications:			
Output Frequency	130 to 640 MHz		
Output Frequency	50	100	MHz
Output Level	+13 +/- 2 dB		dBm
Aging	Per day after 30 days operating, typical		
	±1e-6 / year, typical		
Phase Noise			
	100 Hz	-134	-125 dBc/Hz
	1 KHz	-154	-150 dBc/Hz
	10 KHz	-165	-165 dBc/Hz
	1 kHz	-165	-165 dBc/Hz
Temperature Stability (Specify)			
Range A	0 to +50C	±1e-6 to ±5e-7	
Range B	0 to +65C		
Range C	0 to +70C		
Range D	-20 to +70C		
Range E	-40 to +70C		
Harmonics		-30	dBc
Spurious		-70	dBc
Dimensions	3.5 x 2.38 x .68		inches
Connectors	Consult Factory		
Packaging	Machined brass housing		
Mounting	Four 4-40 mounting holes, or four shock mounts		
Acceleration Sensitivity	To 5 x 10 ⁻¹⁰ /g per axis, 10 Hz to 2 kHz		
Supply Voltage (Specify)		+12 or +15	VDC
Warm-up Power		<8 Watts for < 5 minutes	Watts
Total Power @ 25 °C		<5 Watts @ +25°C	Watts
Crystal Type	SC		

