



Crystal Oscillators > Phase Locked & Auto Switching >

Features:

- Very Low Noise Outputs from 30 to 260 MHz
- Loop Bandwidth Chosen for Application
- Designed for Vibration Isolators
- -170 Phase Noise Floors

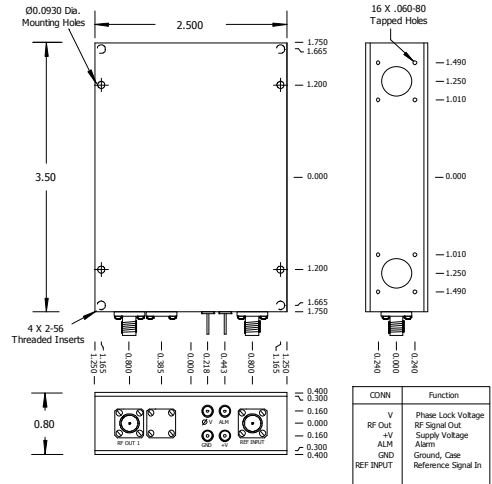
Applications:

- Radar Systems
- Coherent Sources
- Physics Applications
- Test Equipment

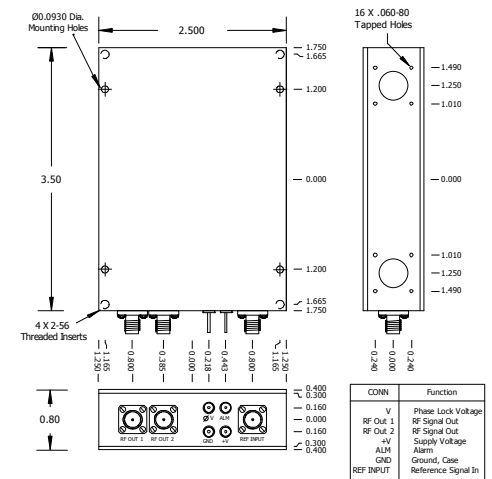
The VHF Phase Locked Oscillators provide a variety of input and output options, ensuring optimal phase noise during locked and unlocked conditions. The VHF PLO is based on a very low noise SC-cut crystal oscillator and includes an internal doubler. Noise floors are typically -170 dBc/Hz. Inputs can be specified from 1 MHz to 30 MHz. Also, the input frequency may be specified at the same frequency as the output frequency. Unusual divider ratios must be reviewed by the sales department.

Typical Specifications:			
Frequency (Specify)	30 to 130 MHz		
Frequency	80	100	MHz
Input Level	10 Mhz 7 dBm ±5		
Output Level	+13 dBm		
Aging	±1 x 10 ⁻⁶ / year		
Phase Noise	100 Hz	-125	-125 dBc/Hz
	1 kHz	-155	-155 dBc/Hz
	10 kHz	-170	-170 dBc/Hz
	±1 x 10 ⁻⁶ to ±5 x 10 ⁻⁷		
Temperature Stability (Specify)			
Range A	0 to +50C		
Range B	0 to +65C		
Range C	0 to +70C		
Range D	-20 to +70C		
Range E	-40 to +70C		
Spurious	-70 dBc		
Harmonics	-30 dBc		
Supply Voltage (Specify)	+12 or +15 VDC		
Warm-up Power	8 at start-up for 5 minutes at 25°C		
Total Power typical	5 at steady state +25°C		
Crystal Type	SC		
Dimensions	63.5 x 88.9 x 20.32 mm		
	2.5 x 3.5 x 0.8 inches		
Connectors	SMA's and solder pins on side		

VHF PLO Series



VHF Locked to HF



VHF Locked to VHF