PHASE LOCKED OSCILLATOR

MODEL 627122 (13 GHz)

Features

- **Low Phase Noise: -82 dBc/Hz @ 100 Hz**
- **Low Spurious: -70 dBc Typical**
- **External Reference: 100 MHz**
- **Environmental Screening Available**

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -20 ºC to +70 ºC
Frequency	13 GHz	13 GHz
Output Power (dBm)	+13	+12
Variation Over Temperature (dBm)	+/- 0.75 dBm	+/- 1 dBm
Spurious (dBc)	-70	-60
Phase Noise (dB)	-57 dBc/Hz @ 10 Hz -82 dBc/Hz @ 100 Hz -110 dBc/Hz @ 1 KHz -118 dBc/Hz @ 10 KHz -122 dBc/Hz @ 100 KHz	
VSWR	1.5	2.0
Harmonics (dBc)	-25	-20
External Reference (MHz)	100	100
Lock Indicator	TTL (High=Locked)	TTL (Low=Unlocked)
Storage Temperature	-55 ºC	+125 ºC
Supply Power DC mA	15 120	15 125

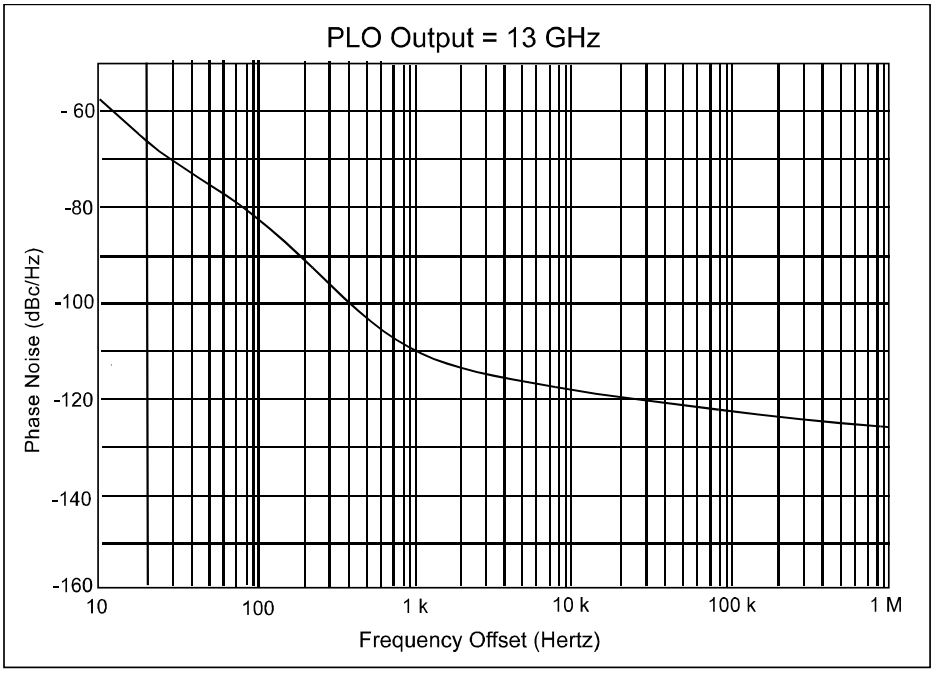
Description

Spectrum Microwave's Series 600 Phase Locked Oscillators use a High "Q" Dielectric Resonator in the resonant circuit. The circuit is lightly loaded to obtain the lowest phase noise possible.

The resonator is screwed to a printed circuit board and well grounded to minimize modulation sidebands during shock and vibration.

Isolators are used to provide isolation from load VSWRs. Regulators filter noise on the DC input voltage.

Internal reference models are also available. A lock indicator circuit is provided to signal an out-of-lock condition.



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Rev. 7/16/08

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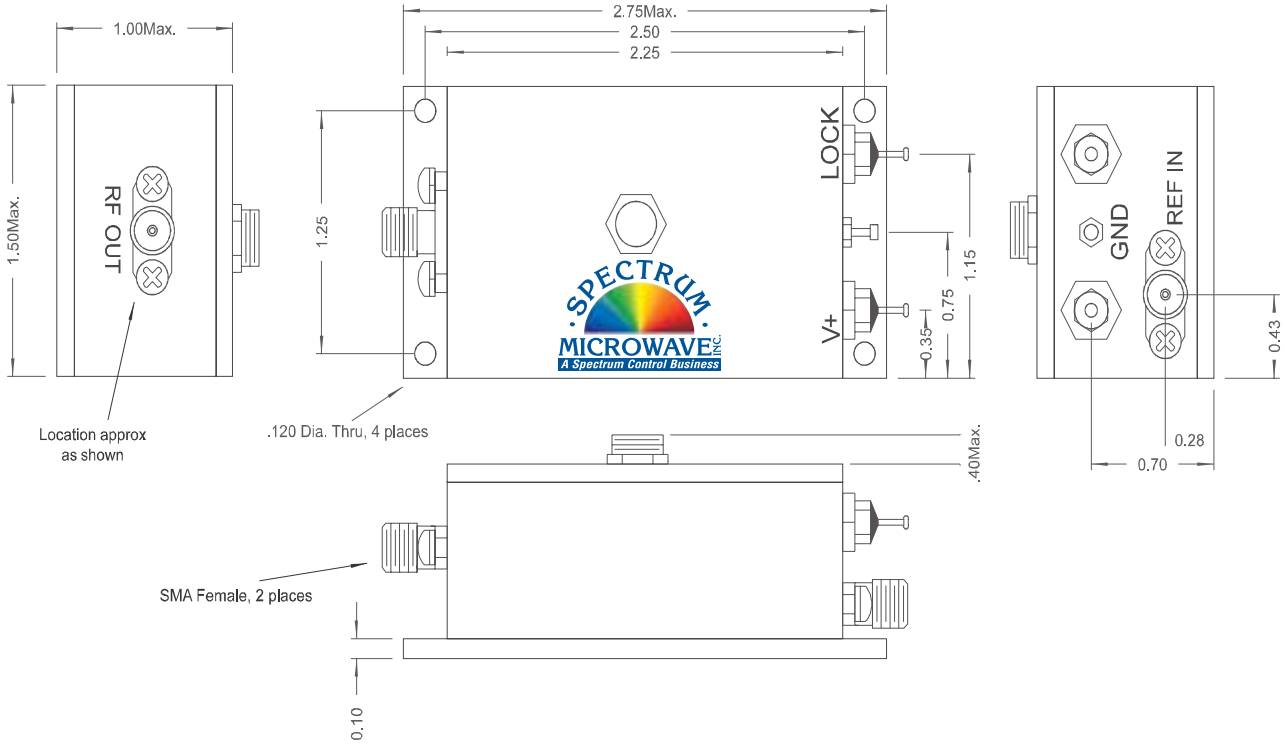
Outline Drawing



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