

PHASE LOCKED OSCILLATOR

MODEL 621517 (1400 MHz)



Features

- Low Phase Noise: -134 dBc/Hz @ 100 kHz
- Low Spurious: -70 dBc Typical
- External Reference: 100 MHz
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -20 °C to +70 °C
Frequency	1400 MHz	1400 MHz
Output Power (dBm)	+13	+12
Variation Over Temperature (dBm)	+/- 0.75 dBm	+/- 1 dBm
Spurious (dBc)	-70	-60
Phase Noise (dB)	-104 dBc/Hz @ 100 Hz -127 dBc/Hz @ 1 kHz -129 dBc/Hz @ 10 kHz -127 dBc/Hz @ 30 kHz -134 dBc/Hz @ 100 kHz -145 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-25	-20
External Reference (MHz)	10	10
Lock Indicator	TTL (High=Locked)	TTL (Low=Unlocked)
Storage Temperature	-55 °C	+125 °C
Supply Power	DC	15
	mA	120
		125

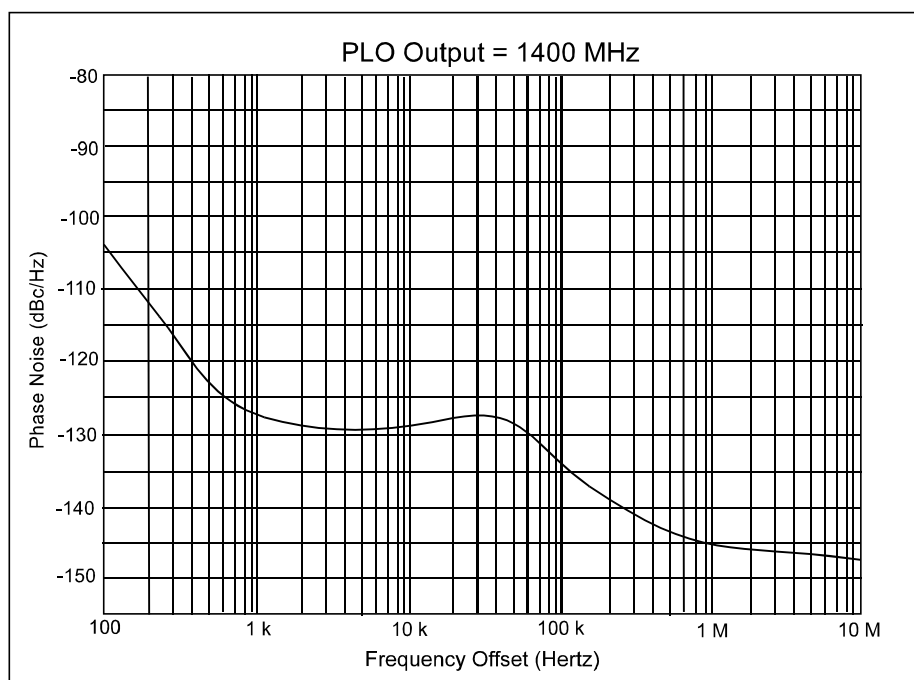
Description

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

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

Buffer amplifiers 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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Outline Drawing

