COAXIAL RESONATOR OSCILLATOR

Model 511074

1800 MHz

Features

- **Low Phase Noise Bipolar Transistor**
- **Rugged Construction for Extreme Environmental Conditions**
- **High Frequency Stability**
- **Voltage Tuning Option**

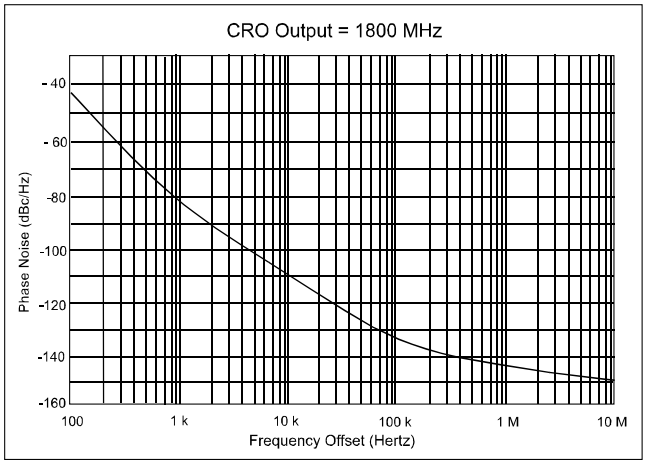
Maximum Ratings

Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +20 Volts
Maximum DC Tuning Voltage ..... +20 Volts
Minimum DC Tuning Voltage ..... 0 Volts

NOTE: Care should always be taken to effectively ground the case of each unit.

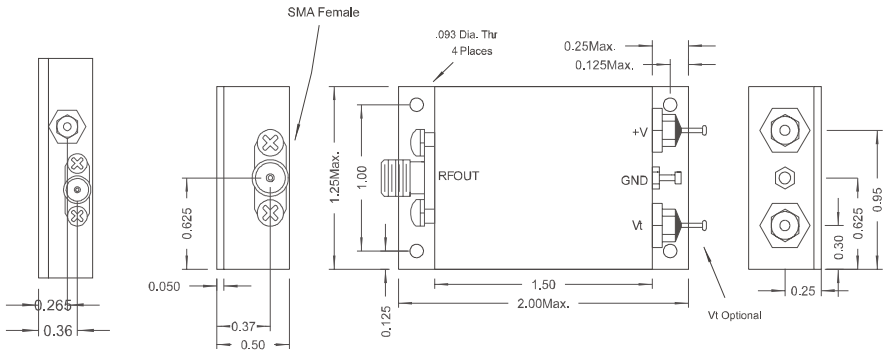
Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -10 ºC to +60 ºC
Frequency	1800 MHz	1800 MHz
Output Power (dBm)	+10	+13 Max.
Spurious (dBc)	-60	-60
Phase Noise (dB)	-43 dBc/Hz @ 100 Hz -83 dBc/Hz @ 1 KHz -110 dBc/Hz @ 10 KHz -133 dBc/Hz @ 100 KHz -144 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-20	-20
Frequency Pushing	+/- 0.1% / Volt	+/- .02% / Volt
Frequency Pulling	+/- 0.02%	+/- 0.03%
Temperature Drift	+/- 0.01%	+/- 0.02%
Storage Temperature	-55 ºC	+125 ºC
Supply Power DC mA	15 150	15 155



Spectrum Microwave CROs produce impressive frequency stability and phase noise when used in a properly designed oscillator circuit. The units can be voltage tuned with a varactor over 5% bandwidth and still retain excellent stability and phase noise performance.

Mechanical Outline



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