

COAXIAL RESONATOR OSCILLATOR

Model 511070

1600 MHz

Features

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

Specifications

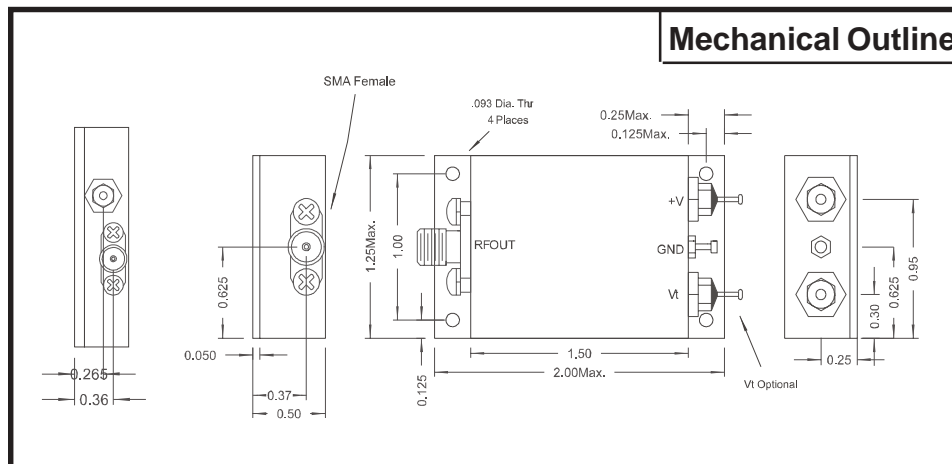
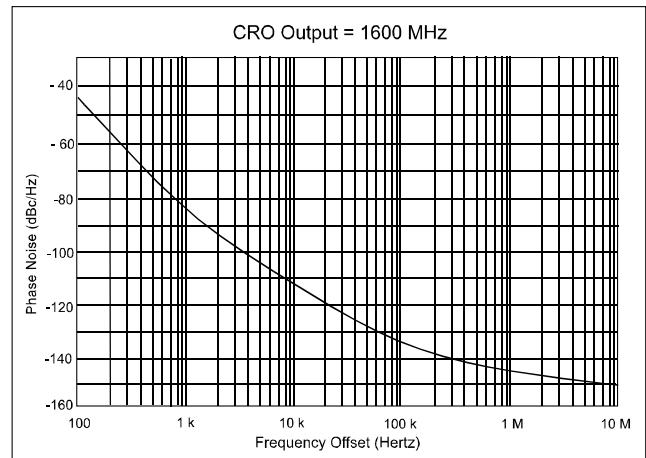
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -10 °C to +60 °C
Frequency	1600 MHz	1600 MHz
Output Power (dBm)	+10	+13 Max.
Spurious (dBc)	-60	-60
Phase Noise (dB)	-44 dBc/Hz @ 100 Hz -84 dBc/Hz @ 1 KHz -111 dBc/Hz @ 10 KHz -134 dBc/Hz @ 100 KHz -145 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-20	-20
Frequency Pushing	+/- 0.1% / Volt	+/- .02% / Volt
Frequency Pulling	+/- 0.02%	+/- 0.03%
Temperature Drift	+/- 0.01%	+/- 0.02%
Storage Temperature	-55 °C	+125 °C
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.

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 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.



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