

# COAXIAL RESONATOR OSCILLATOR

**Model 511053**

**750 MHz**

## Features

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

## Specifications

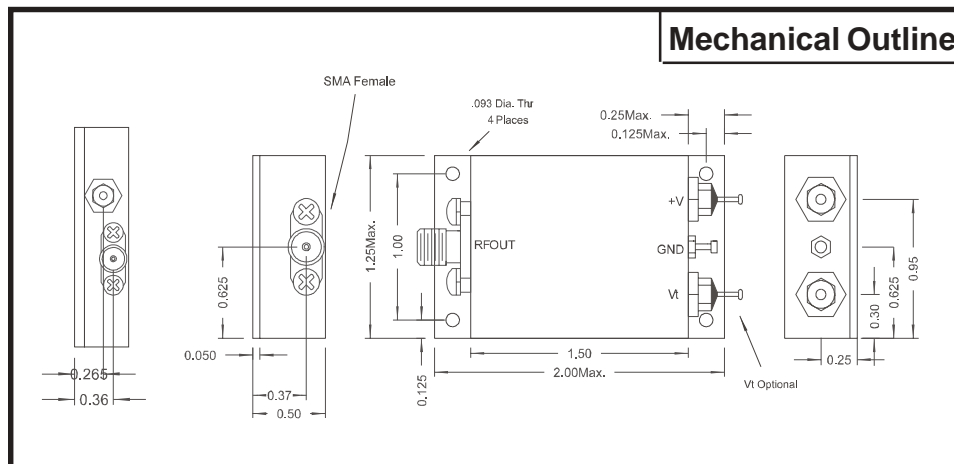
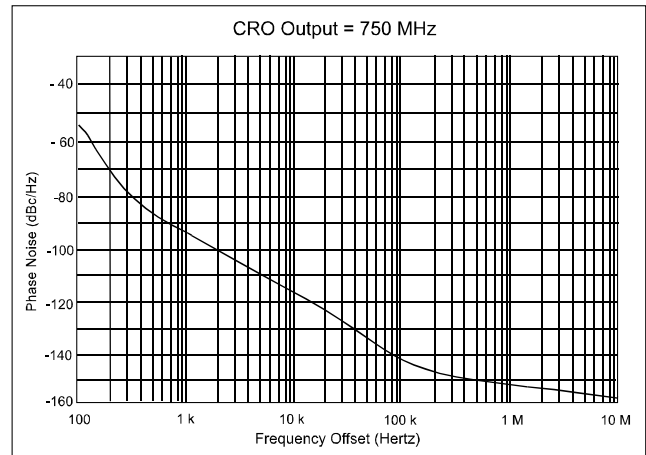
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -10 °C to +60 °C
Frequency	750 MHz	750 MHz
Output Power (dBm)	+10	+13 Max.
Spurious (dBc)	-60	-60
Phase Noise (dB)	-53 dBc/Hz @ 100 Hz -93 dBc/Hz @ 1 KHz -117 dBc/Hz @ 10 KHz -141 dBc/Hz @ 100 KHz -152 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-20	-20
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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