

# COAXIAL RESONATOR OSCILLATOR

**Series 521**

**500 - 700 MHz**

## Features

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

## Specifications

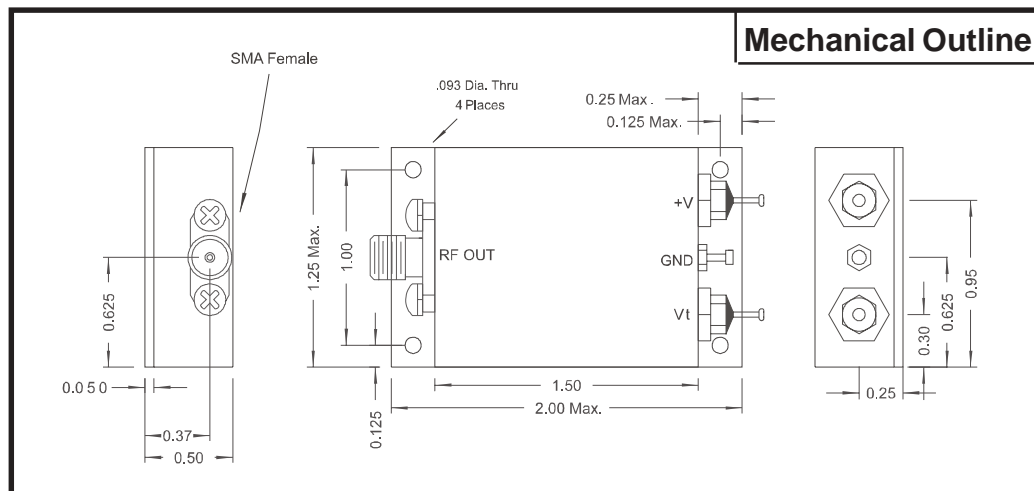
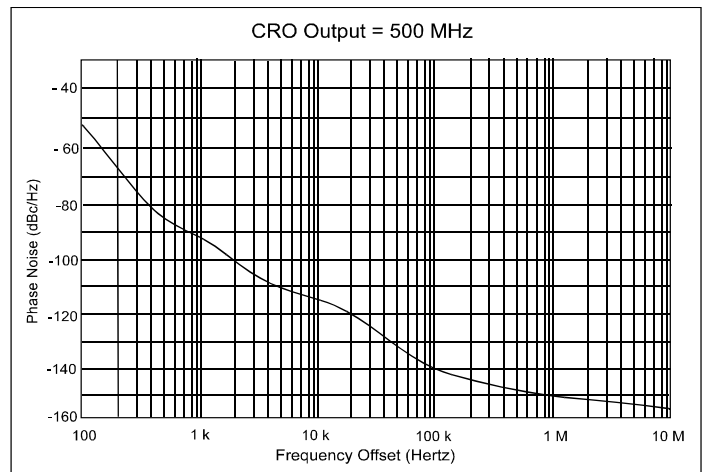
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -20 °C to +70 °C
Frequency	500 - 700 MHz	500 - 700 MHz
Output Power (dBm)	+10	+13 Max.
Spurious (dBc)	-80	-80
Phase Noise (dB) @ 500 MHz	-52 dBc/Hz @ 100 Hz -92 dBc/Hz @ 1 KHz -115 dBc/Hz @ 10 KHz -140 dBc/Hz @ 100 KHz -150 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-25	-25
Frequency Pushing	+/- .01% / Volt	+/- .02% / Volt
Frequency Pulling	+/- 0.02%	+/- 0.03%
Temperature Drift	+/- 0.1%	+/- 0.15%
Storage Temperature	-55 °C	+125 °C
Supply Power DC	15	15
mA	70	80

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

**Spectrum Microwave CROs** produce impressive frequency stability and phase noise when used in a properly designed oscillator circuit.

## 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



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Rev.  
9/23/08

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