

COAXIAL RESONATOR OSCILLATOR

Model 511068

1500 MHz

Features

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

Specifications

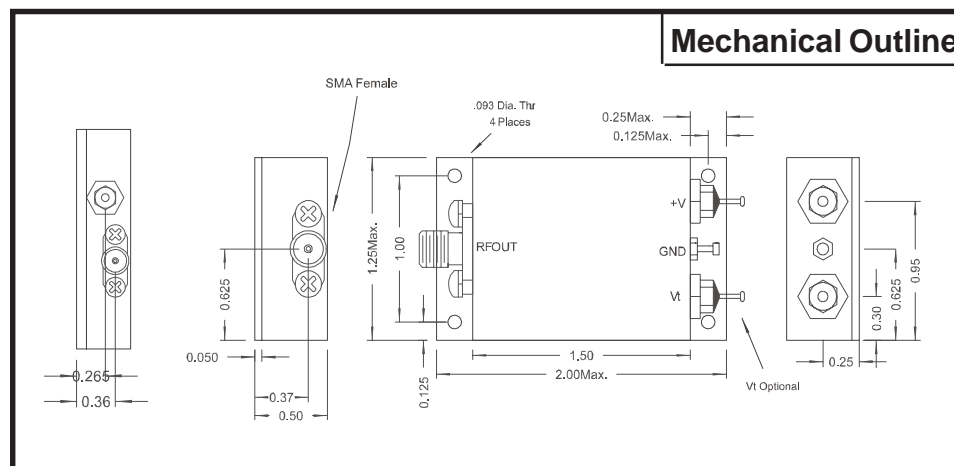
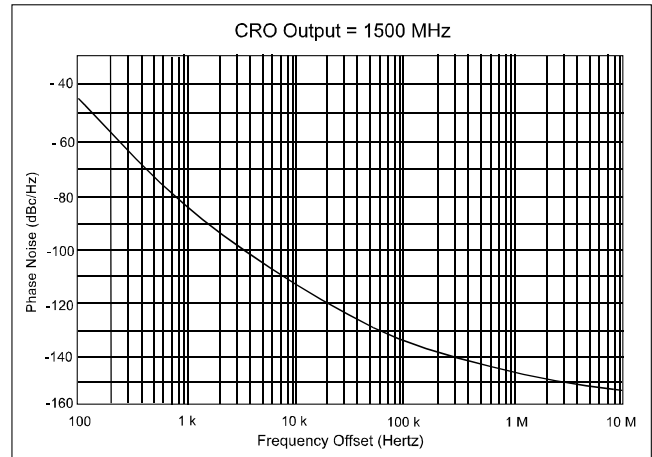
| CHARACTERISTIC | TYPICAL Ta= 25 °C | MIN/MAX Ta = -10 °C to +60 °C |
|-----------------------|---|----------------------------------|
| Frequency | 1500 MHz | 1500 MHz |
| Output Power (dBm) | +10 | +13 Max. |
| Spurious (dBc) | -60 | -60 |
| Phase Noise (dB) | -45 dBc/Hz @ 100 Hz -85 dBc/Hz @ 1 KHz -112 dBc/Hz @ 10 KHz -135 dBc/Hz @ 100 KHz -146 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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