

DIELECTRIC RESONATOR OSCILLATOR

Model 512134

3000 - 4000 MHz

Features

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

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	3000 - 4000 MHz	3000 - 4000 MHz
Output Power (dBm)	+10.0	0 / +17.0
Power Flatness (dBm)	+/- 1.5	+/- 3.0
Frequency Stability (ppm)/ °C	4	3 to 5
Harmonics (dBc)	20	15 Max.
Spurious (dBc)	-80	-80 Max.
Phase Noise (3000 MHz) @ 100 KHz (dBc/Hz)	-131	-129 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc mA	+15 to +20 90 Max.

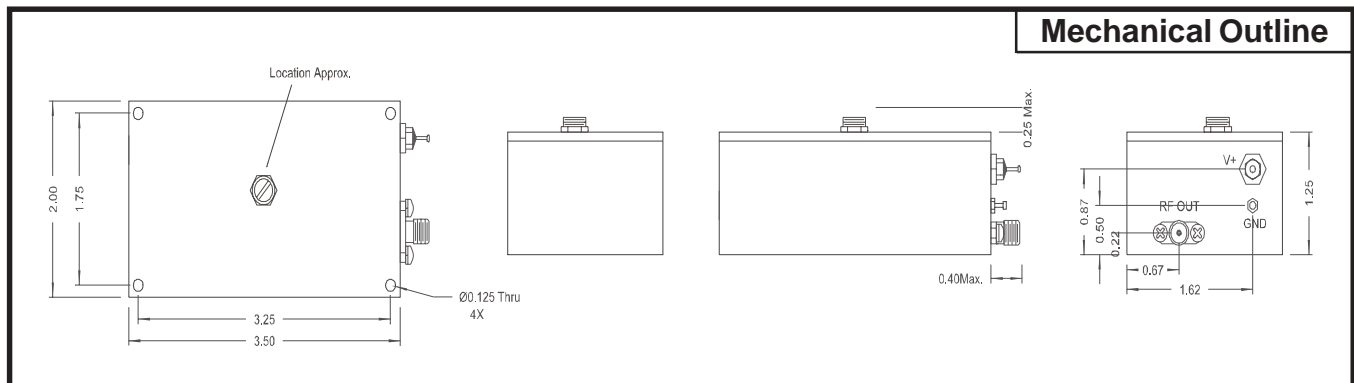
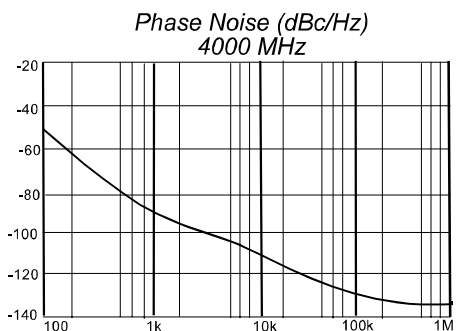
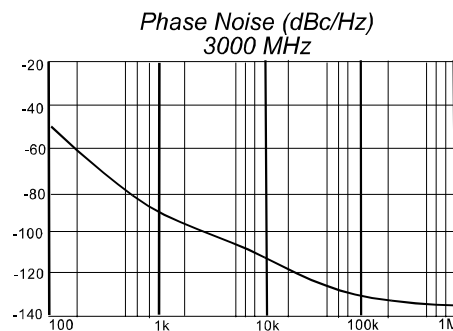
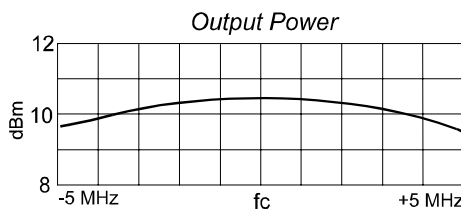
Absolute Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +24 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.

Typical Performance Data

Phase Noise Offset	Typical 3000 MHz	Typical 4000 MHz
1 kHz	-91	-90
10 kHz	-112	-110
100 kHz	-131	-130



Mechanical Outline



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 Rev. 8/11/08

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001