DIELECTRIC RESONATOR OSCILLATOR

Model 515106

9000 - 10,000 MHz

Features

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

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 ºC	MIN/MAX Ta = -55ºC to +85 ºC
Frequency	9000 - 10,000 MHz	9000 - 10,000 MHz
Output Power (dBm)	+13.0	+10.0 Min.
Power Flatness (dBm)	+/- 1.5	+/- 3.0
Frequency Stability (ppm)/ ºC	4	3 to 5
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	-80	-80 Max.
Phase Noise (9000 MHz) @ 100 KHz (dBc/Hz)	-123	-121 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power Vdc	+15	+15 to +20
mA	70	90 Max.

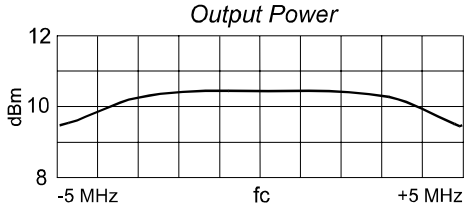
Absolute Maximum (No Damage) Ratings

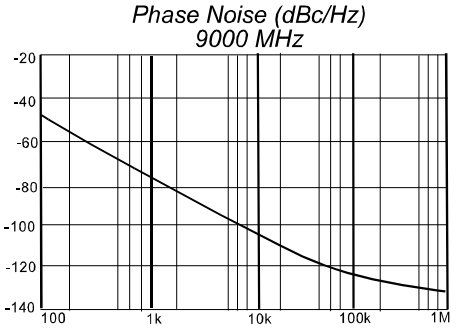
Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +24 Volts
Maximum DC Tuning Voltage ..... +20 Volts
Minimum DC Tuning Voltage ..... 0 Volts

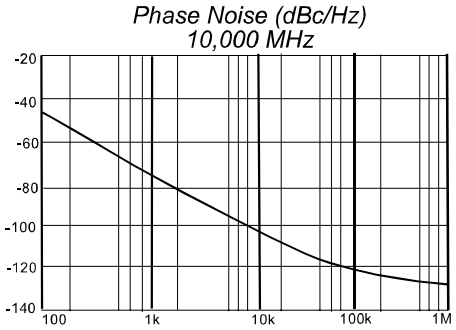
NOTE: Care should always be taken to effectively ground the case of each unit.

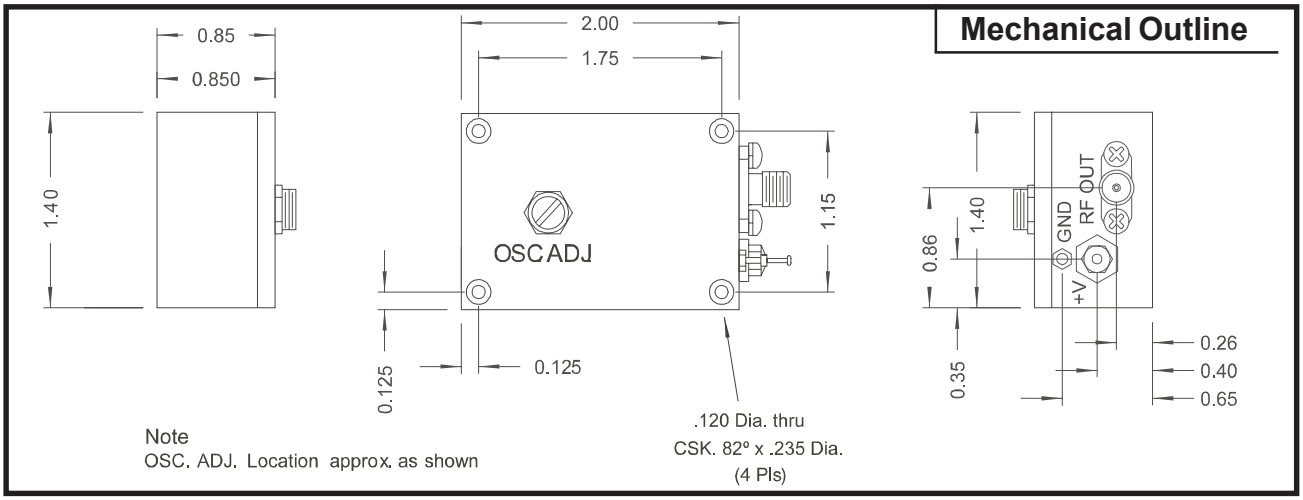
Typical Performance Data

Phase Noise	Typical	Typical
Offset	9000 MHz	10,000 MHz
1 kHz	-77	-75
10 kHz	-103	-101
100 kHz	-123	-122









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

Rev. 5/5/10

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