

DIELECTRIC RESONATOR OSCILLATOR

MDR2100-15500

15500 - 16500 MHz

Features

- Rugged Construction for Extreme Environmental Conditions
- High Frequency Stability
- Free Running, Mechanically Tuned

Specifications¹

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -20°C to +65 °C
Frequency	15500 - 16500 MHz	15500 - 16500 MHz
Mechanical Tuning Bandwidth (MHz)	—	±20 Min.
Frequency Stability ² (ppm)/ °C	4	5 Max.
Pulling, 12 dB RL (ppm)	—	±100 Max.
Pushing (ppm/Volt)	—	20 Max.
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	-75	-70 Max.
Output Power (dBm) ³	+11	+10 Min.
Power	Vdc ⁴ mA	+15 125 Max.

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

1. Specifications labeled "min." or "max." are guaranteed in a 50 Ohm system over the specified temperature range.

2. Averaged over the full temperature range.

3. Higher output power is available.

4. Alternate input voltage is available.

5. Package must be verified by Spectrum Microwave.

Absolute Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C

Storage Temperature -62°C to +125 °C

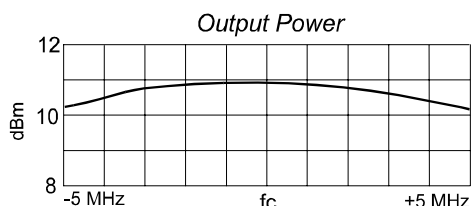
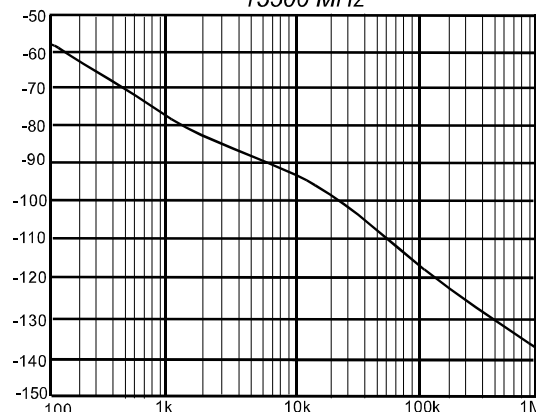
Case Temperature +125 °C

DC Voltage +24 Volts

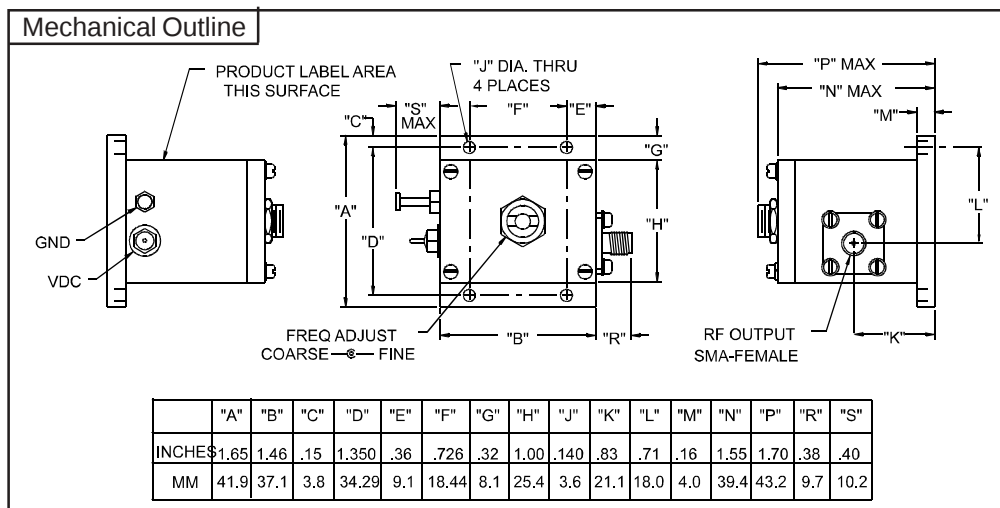
Typical Performance Data

Phase Noise	Typical 15500 MHz	Typical 16500 MHz
Offset		
10 kHz	-92	-91
100 kHz	-117	-116
1 MHz	-137	-136

Phase Noise (dBc/Hz)
15500 MHz



Mechanical Outline



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

Rev.
10/23/08

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