

DIELECTRIC RESONATOR OSCILLATOR

Model 513141

4000 - 5000 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	4000 - 5000 MHz	4000 - 5000 MHz
Output Power (dBm)	+13.0	+10.0 Min.
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 (4000 MHz) @ 100 KHz (dBc/Hz)	-130	-128 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc mA	+15 to +20 90 Max.

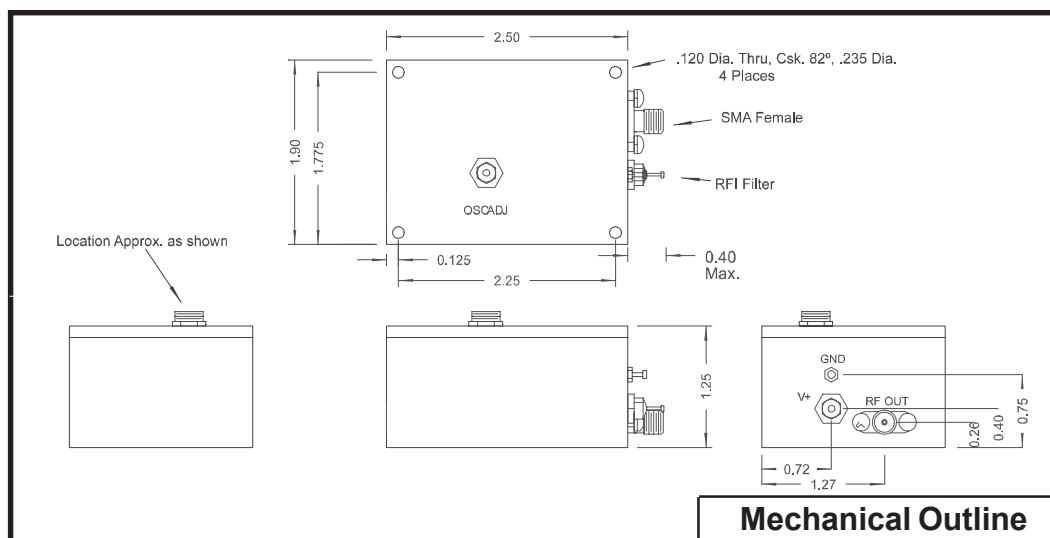
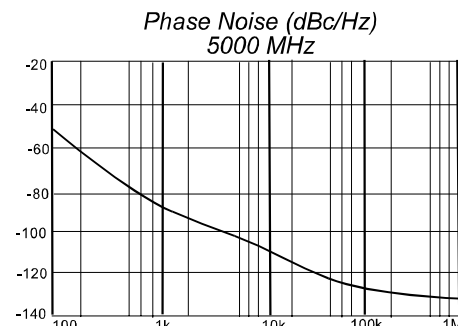
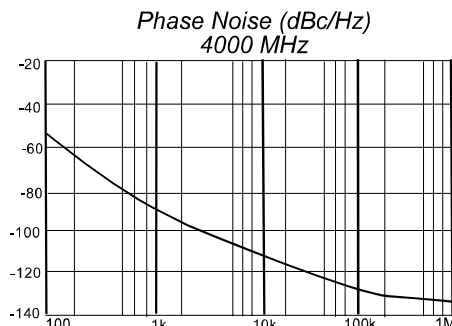
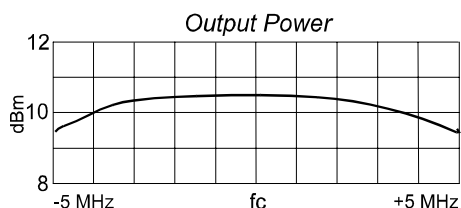
Absolute Maximum (No Damage) Ratings

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 4000 MHz	Typical 5000 MHz
1 kHz	-90	-87
10 kHz	-110	-109
100 kHz	-130	-128



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Rev.
5/5/10

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