DIELECTRIC RESONATOR OSCILLATOR

Model 516117

11 GHz to 12 GHz

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	11 - 12 GHz	11 - 12 GHz
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 (11 GHz) @ 100 KHz (dBc/Hz)	-121	-119 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

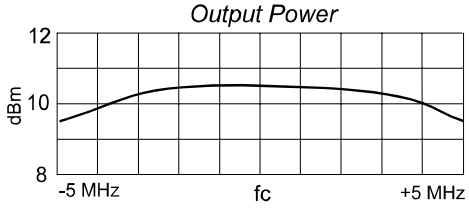
Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +24 Volts
Maximum DC Tuning Voltage ..... +20 Volts
Minimum DC Tuning Voltage ..... 0 Volts

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

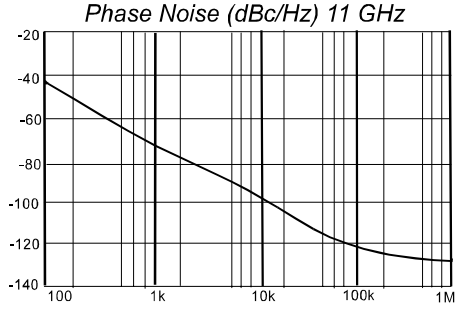
Typical Performance Data

Phase Noise Offset	Typical 11 GHz	Typical 12 GHz
1 kHz	-72	-70
10 kHz	-99	-97
100 kHz	-121	-120

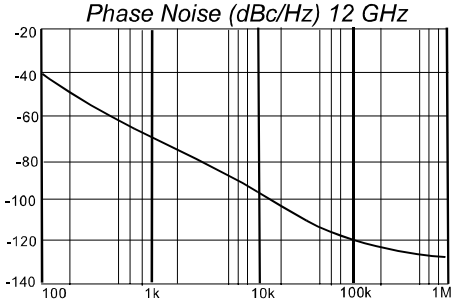
Output Power



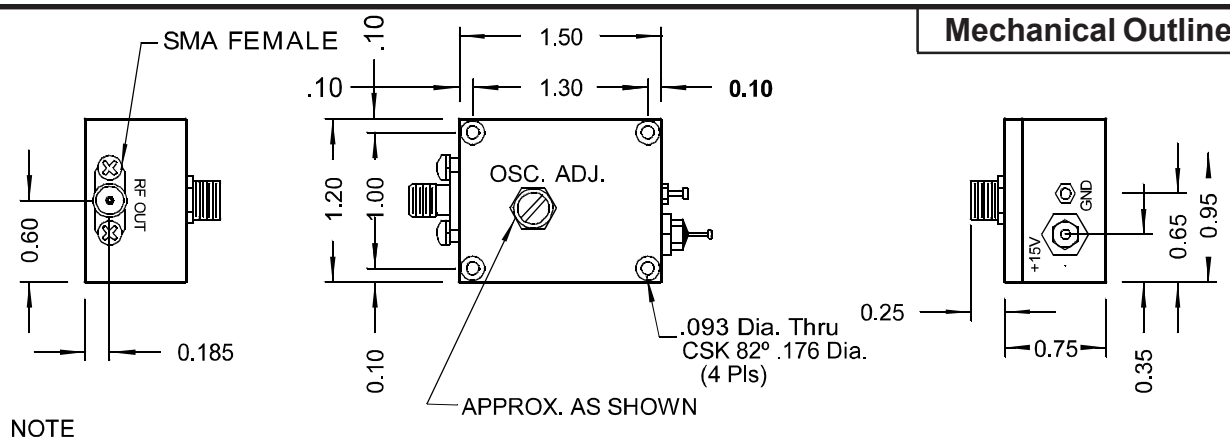
Phase Noise (dBc/Hz) 11 GHz



Phase Noise (dBc/Hz) 12 GHz



Mechanical Outline



NOTE
OSC. ADJ. Location Approx. as shown.

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