

DIELECTRIC RESONATOR OSCILLATOR

Model 517053

12 GHz to 13 GHz

Features

- Low Noise
- 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	12 - 13 GHz	12 - 13 GHz
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 (12 GHz) @ 100 KHz (dBc/Hz)	-120	-118 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc +15 mA 70	+15 to +20 90 Max.

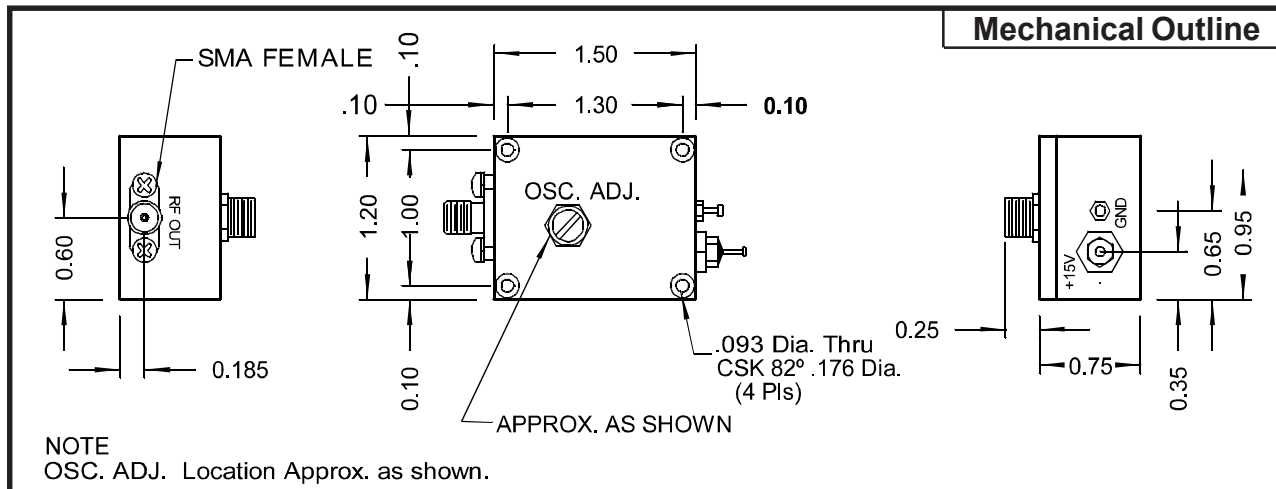
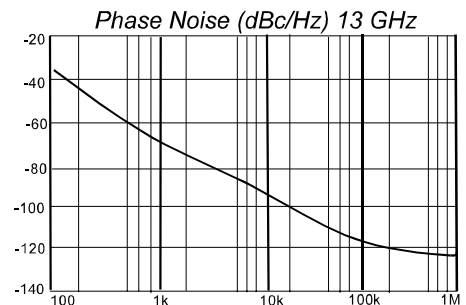
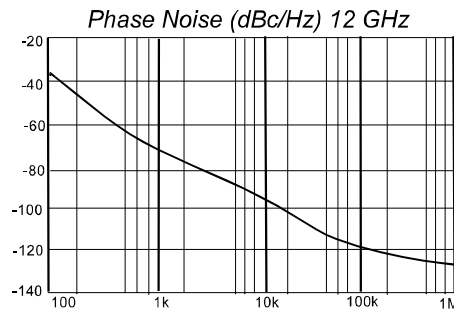
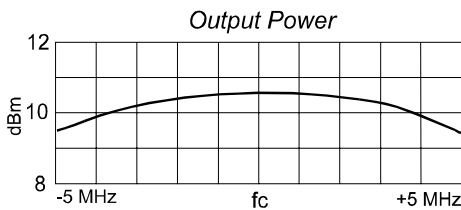
Absolute Maximum (No Damage) Ratings

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	Typical	Typical
Offset	12 GHz	13 GHz
1 kHz	-70	-68
10 kHz	-97	-95
100 kHz	-120	-119



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