

# DIELECTRIC RESONATOR OSCILLATOR

Model 517054

13 GHz to 14 GHz

## Features

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

## Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
	Ta = +25 °C	Ta = -55°C to +85 °C
Frequency	13 - 14 GHz	13 - 14 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 (13 GHz) @ 100 KHz (dBc/Hz)	-119	-117 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc	+15
	m A	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	13 GHz	14 GHz
1 kHz	-68	-65
10 kHz	-95	-92
100 kHz	-119	-117

