

DIELECTRIC RESONATOR OSCILLATOR

Model 513142

5000 - 6000 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	5000 - 6000 MHz	5000 - 6000 MHz
Output Power (dBm)	+10.0	0 / +17.0
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 (5000 MHz) @ 100 KHz (dBc/Hz)	-128	-126 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc mA	+15 to +20 90 Max.

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
 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 5000 MHz	Typical 6000 MHz
1 kHz	-87	-85
10 kHz	-109	-108
100 kHz	-128	-126

