

# DIELECTRIC RESONATOR OSCILLATOR

**Model 515106**

**9000 - 10,000 MHz**

## 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	9000 - 10,000 MHz	9000 - 10,000 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 (9000 MHz) @ 100 KHz (dBc/Hz)	-123	-121 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc mA	
	+15 70	+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	Typical	Typical
Offset	9000 MHz	10,000 MHz
1 kHz	-77	-75
10 kHz	-103	-101
100 kHz	-123	-122

