

COAXIAL RESONATOR OSCILLATOR

Series 511

500 - 700 MHz

Features

- Low Phase Noise Bipolar Transistor
- Rugged Construction for Extreme Environmental Conditions
- High Frequency Stability
- Fixed Frequency

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -20 °C to +70 °C
Frequency	500 - 700 MHz	500- 700 MHz
Output Power (dBm)	+10	+13 Max.
Spurious (dBc)	-80	-80
Phase Noise (dB) @ 500 MHz	-55 dBc/Hz @ 100 Hz -95 dBc/Hz @ 1 KHz -118 dBc/Hz @ 10 KHz -143 dBc/Hz @ 100 KHz -153 dBc/Hz @ 1 MHz	
VSWR	1.5	2.0
Harmonics (dBc)	-25	-25
Frequency Pushing	+/- .01% / Volt	+/- .02% / Volt
Frequency Pulling	+/- 0.02%	+/- 0.03%
Temperature Drift	+/- 0.1%	+/- 0.15%
Storage Temperature	-55 °C	+125 °C
Supply Power DC mA	15 70	15 80

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

Spectrum Microwave CROs produce impressive frequency stability and phase noise when used in a properly designed oscillator circuit.

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +20 Volts

