

# Dielectric Resonator Oscillator

## Specifications

CHARACTERISTIC	TYPICAL Ta = +25°C	MIN/MAX Ta = -55°C to +85°C
Frequency (Center Frequency is ± 150 MHz)	7000 – 8000 MHz	7000 – 8000 MHz
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 (7000 MHz) @ 100 KHz (dBc/Hz)	-125	-123 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power Vdc mA	+15 70	+15 to +20 90 Max.

## Features

- Frequency: 7000 – 8000 MHz
- Low Noise
- Rugged Construction for Extreme Environmental Conditions
- High Frequency Stability
- Mechanically Tuned

## Typical Performance Data

Phase Noise	Typical	Typical
Offset	7000 MHz	8000 MHz
1 kHz	-82	-80
10 kHz	-105	-104
100 kHz	-125	-124

## Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Case Temperature	+85°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

## Package Outline Drawing

