

Dielectric Resonator Oscillator

Specifications

CHARACTERISTIC	TYPICAL Ta = +25°C	MIN/MAX Ta = -55°C to +85°C
Frequency	14 – 15 GHz	14 – 15 GHz
Output Power (dBm)	+13.0	+10.0 Min.
Power Flatness (dBm)	+/- 1.5	+/- 3.0
Frequency Stability (ppm)/ C	6	5 to 8
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	-80	-80 Max.
Phase Noise (7000 MHz) @ 100 KHz (dBc/Hz)	-117	-115 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power Vdc	+15	+15 to +20
mA	70	90 Max.

Features

- Frequency: 14 GHz – 15 GHz
- Low Phase Noise
- Rugged Construction for Extreme Environmental Conditions
- High Frequency Stability
- Mechanically Tuned

Typical Performance Data

Phase Noise	Typical	Typical
Offset	14 GHz	15 GHz
1 kHz	-55	-53
10 kHz	-75	-73
100 kHz	-100	-97

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature	-40°C to +70°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

Package Outline Drawing

