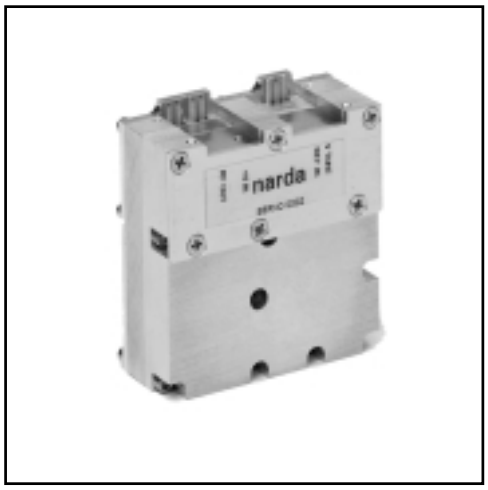

13 GHz

LMDS PHASE LOCKED DIELECTRIC RESONATOR OSCILLATOR

- **Exceptionally Low Phase Noise**
  Typically 116 dBc/Hz @ 10 kHz Offset
- **Designed for Severe Shock and Vibration Environments**
- **Surface Mount Design**
- **Optional Output Frequencies Available**
- **Superior Spectral Purity**
- **Options**
  — Output Frequency From 6-18 GHz
  — Connectorized Housing
  — Internal Reference

SPECIFICATIONS

PARAMETER	SPECIFICATION	UNITS	NOTES
Frequency	13	GHz	Additional Frequencies Available
Output Power	+4 dBm (Typ) ± 2 dB (max)	dBm	Over Operating Temperature Range
Frequency Reference	External Crystal Reference		
Reference Frequency	100	MHz	Customer Provided
Reference Power Required	0 to +5	dBm	Sine Wave
Spurious	- 65	dBc	
Harmonics	- 30	dBc	
Phase Noise	-91 @ 1 kHz offset -106 @ 10 kHz -106 @ 100 kHz -131 @ 1 MHz -131 @ > 1 MHz	dBc/Hz (min)	Phase Noise Performance Is Reference-Oscillator Dependent
Operating Temperature	-30°C to +75°C		
Power Supply Voltage	10 ± 2	Volts	
Operating Current	200	MA	
Phase Lock Indicator	"O" Indicates Lock +6.5 V Indicator – Unlocked		
Output Connector	Ground-Signal-Ground Pads on circuit board		Connectorized Versions Available
Size	2.25” x 2.25” x 0.82”	Inches	Maximum
Weight	6	Ounces	Maximum