

## 26.4 GHz

# LMDS / PTP PHASE LOCKED DIELECTRIC RESONATOR OSCILLATOR

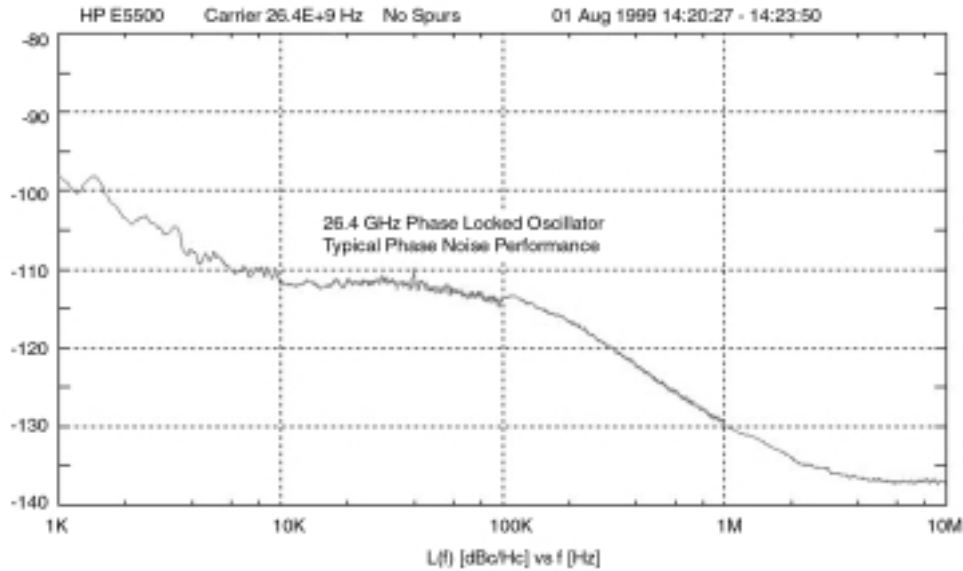
- **Exceptionally Low Phase Noise**  
Typically 110 dBc/Hz @ 10 kHz Offset
- **Designed for Severe Shock and Vibration Environments**  
< ±500 Hz microphonically induced frequency transients  
due to .4 joule impact
- **Surface Mount Design**
- **Low Cost / High Volume Design**
- **Superior Spectral Purity**
- **Options**
  - Output Frequency From 18-38 GHz
  - Connectorized Housing
  - Internal Reference

## SPECIFICATIONS

PARAMETER	SPECIFICATION	UNITS	NOTES
Frequency	26.4	GHz	Additional Frequencies Available
Output Power	+6 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	-85 @ 1 kHz offset -100 @ 10 kHz -100 @ 100 kHz -125 @ 1 MHz -125 @ > 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	250	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

# Oscillators

## PHASE NOISE PERFORMANCE CHART



## LMDS PLDRO BLOCK DIAGRAM

