

Oscillators

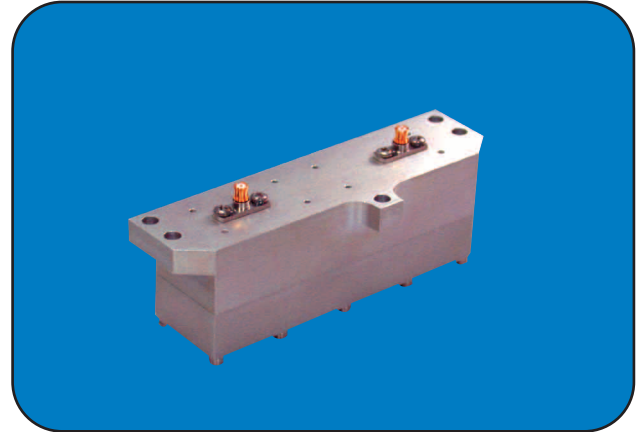
Ultra Low Noise Crystal Oscillators, 100 MHz

Model: OSC044



Features:

- Low Noise -179dB/Hz @100 kHz
- Excellent Performance Under Vibration
- Wide Temperature Range
- DC Regulation and Filtering Included



Electrical Specifications

Operating Frequency:	60 - 125 MHz customer specified
Accuracy:	± 25 ppm, typical
Warm-Up Time:	2 milliseconds to within ± 50 ppm
Frequency Drift:	0.25 ppm/sec, maximum
Output Power:	+23 dBm ± 3 dB
VSWR:	1.6:1 typical

SSB Phase Noise : ^{Note 1}

offset	
10 Hz	- 95 dBc/Hz, typical
100 Hz	- 125 dBc/Hz, typical
1 kHz	- 155 dBc/Hz, typical
10 kHz	- 177 dBc/Hz, typical
0.1 to 1 MHz	<- 179 dBc/Hz, typical

Spurious:	- 85 dBc, maximum
Harmonics:	- 30 dBc, typical
	- 20 dBc, maximum
DC Power:	+16 V @ 100 mA, nominal
Power Consumption:	1.6 W, nominal

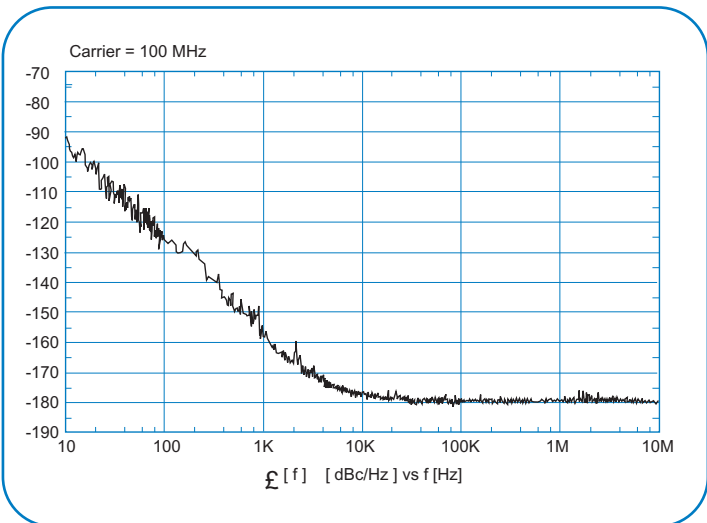
Note 1: Static conditions only. See plot.

Environmental Specifications

Operating Temperature:	- 54 to + 80 °C baseplate
Operating Vibration:	up to 15 g _{rms}
Environment:	Airborne

Mechanical Specifications

Size (excluding connectors):	3.0 x 1.13 x 0.93 inches 76.2 x 28.7 x 24 mm
Weight:	<3.6 oz nominal 100 gms
RF and DC Connectors:	Blindmate GPO [®] series.



Specifications subject to change without notice.