

## SPECIAL FEATURES

- **Low Phase Noise:** - 170 dBc/Hz @ 100 kHz
- **Includes Vibration Damping System**
- **Wide Operating Temperature:** - 54 to + 80 °C
- **DC Regulated & Filtered**



This high performance signal source, which has approximately 15 dB of mechanical isolation at 1 kHz offsets, incorporates expertise in low noise, vibration compensated designs. The two-port unit includes internal DC regulation and active filtering for stable operation over varying environmental conditions.

The XO is constructed using surface mount technologies. In the same package, operating frequencies from 60 to 125 MHz can be provided. The test port may be reconfigured to provide two equal power outputs. Oscillator customization can include unique vibration profiles.

## ELECTRICAL SPECIFICATIONS

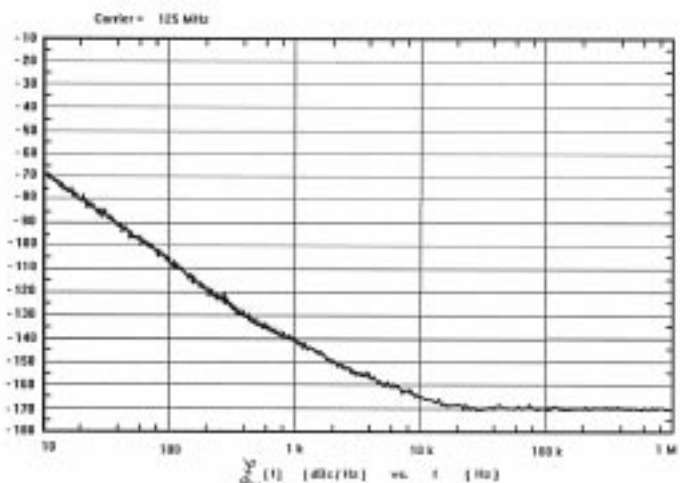
Operating Frequency:	60 - 125 MHz, customer specified
Accuracy:	± 25 ppm, typical
Warm-Up Time:	2 milliseconds to within ± 50 ppm
Frequency Drift:	0.25 ppm/sec, maximum
Output Power:	+ 15 dBm ± 3 dB (Port 1) + 2 dBm, nominal (Port 2, test port)
VSWR:	1.6:1, typical
SSB Phase Noise (dBc/Hz, typical):	<sup>Note 1</sup>
offset	
10 Hz	- 70
100 Hz	- 105
1 kHz	- 140
10 kHz	- 165
0.1 to 1 MHz	- 170
Spurious:	- 85 dBc, maximum
Harmonics:	- 30 dBc, typical; - 20 dBc, maximum
DC Power:	+ 15 ± 0.2 V @ 50 mA, nominal
Power Consumption:	0.75 W, nominal

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	- 54 to + 80 °C, baseplate
Operating Vibration:	up to 15 g <sub>rms</sub>
Environment:	Airborne

## MECHANICAL SPECIFICATIONS

Size (excluding connectors):	3.12 x 1.3 x 0.93 inches 79 x 33 x 24 mm
Weight:	5.29 oz (150 g), nominal
RF and DC Connectors:	Blindmate GPO® series.



Note 1: Static conditions only. See plot.  
Specifications subject to change without notice.