

THOR-8000-XA

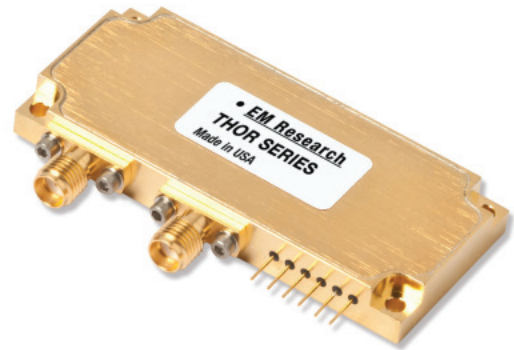
PRODUCT RELEASE

Miniature, Hi-Rel Synthesizer with Internal Reference

6250 to 8000 MHz

FEATURES

- Internal Reference Now Available (± 5 PPM Stability)
- Rugged, Compact Package (2.5" x 1.1" x 0.4")
- Small Step Size (500 KHz)
- Broadband Design
- Low Phase Noise (<math>< -100</math> dBc/Hz @ 10 KHz)



Custom Designs Available

SPECIFICATIONS

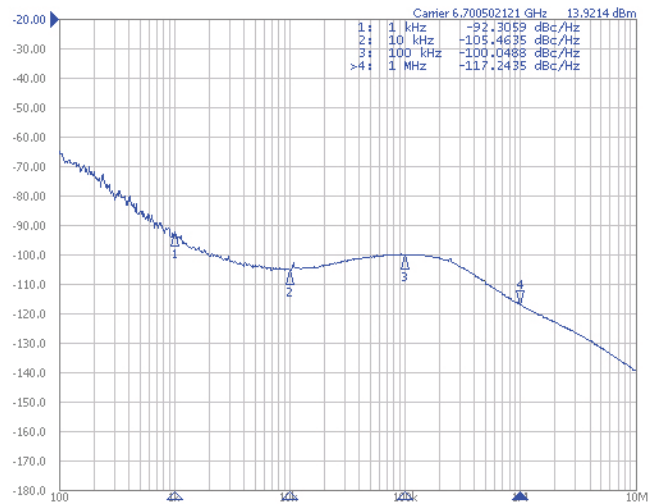
Frequency.....	6250 to 8000 MHz
Step Size	500 KHz
Switch Speed.....	<math>< 300</math> uSec, BE to BE
Internal Reference	± 5 ppm Stability
Power Output.....	+15 dBm ± 2.5 dB, 50 Ω
Harmonics	<math>< -20</math> dBc
Spurs	<math>< -60</math> dBc
Supply.....	+5V
Current.....	≤ 350 mA
Temperature Range (Operating).....	-30°C to +70°C
Package Size.....	0.75" x 0.75" x 0.15"

Phase Noise (dBc/Hz)

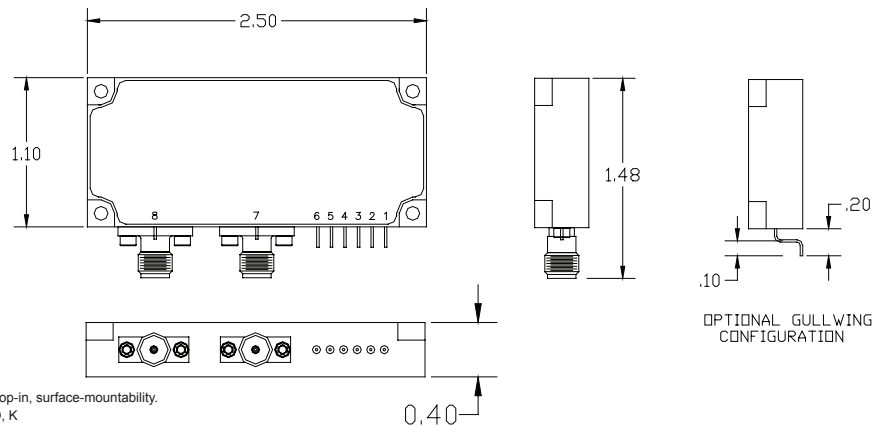
1 KHz Offset	<math>< -90</math>
10 KHz Offset	<math>< -95</math>
100 KHz Offset	<math>< -95</math>

Note: All specifications are typical unless otherwise specified and subject to change without notice. Not all performance parameters are available in combination with certain specifications. E.G. Not all power output levels are available at all frequency ranges.

Figure 1: Phase Noise at 6700 MHz locked to internal reference.



PACKAGE OUTLINE



- Notes:
1. Includes removable SMA connectors for drop-in, surface-mountability.
 2. Alternate connectors available: GPO, GPPO, K
 3. Demoboards and Reference Modules available.
 4. All dimensions are in inches unless otherwise specified.
 5. Diagrams and pictures shown are examples only.

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