

HLX Series

PRODUCT SERIES OVERVIEW

0.8" Hi-Rel, Programmable Frequency Synthesizer

50 MHz to 8 GHz (In-Bands)

FEATURES

- Ruggedized, Surface-Mount Package (0.8" square)
- Programmable Frequencies to 8 GHz (In-Bands)
- Hermetically-Sealed per MIL-STD-883
- Extreme Shock and Vibration Tolerance



Custom Designs Available

SPECIFICATIONS

Frequency Range	50 MHz to 8 GHz
Bandwidth	≤15%
Step Size	down to 100 KHz
External Reference	5 to 100 MHz
Power Output	up to +10 dBm
Harmonics	<-20 dBc
Spurs	<-60 dBc
Supply Options	+3.3, +5 VDC
Current	≤100 mA

Phase Noise (dBc/Hz)	1000 MHz	4000 MHz
1 KHz Offset	<-85	<-65
10 KHz Offset	<-95	<-75
100 KHz Offset	<-110	<-95
1 MHz Offset	<-130	<-120

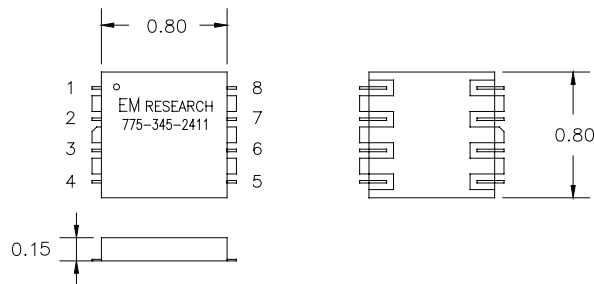
Temperature Ranges (Operating)

Standard	-30°C to +70°C
Optional	-40°C to +85°C

Package Size	0.8" x 0.8" x 0.15"
.....	(20.3 x 20.3 x 3.8)mm

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.

PACKAGE OUTLINE



Notes:

1. Optional epoxy seal available.
2. Demoboards and Reference Modules available.
3. All dimensions are in inches unless otherwise specified.
4. Diagrams and pictures shown are examples only.

HLX Series_Prog_Product Overview Datasheet, Rev A, 6.14.12

1