

# HFS Series

## PRODUCT SERIES OVERVIEW

# 1.25" x 1" Programmable Frequency Synthesizer

## 50 MHz to 12 GHz (In-Bands)

### FEATURES

- Programmable Frequencies to 12 GHz
- Broadband Designs Available
- Optional Internal Reference
- Optional Reference Detect Switch
- Internal Reference Output Available



Custom Designs Available

### SPECIFICATIONS

Frequency Range .....	50 MHz to 12 GHz
Bandwidth .....	≤133% to 2 GHz
.....	≤67% to 4 GHz
.....	≤33% to 6 GHz
.....	≤20% to 12 GHz
Step Size .....	down to 25 KHz
External Reference .....	5 to 200 MHz
Internal Reference (Optional) .....	±5 ppm, Stability
Power Output .....	up to +14 dBm
Harmonics .....	<-20 dBc
Spurs .....	<-60 dBc
Supply Options .....	+3.3, +5 VDC
Current .....	≤200 mA

Phase Noise (dBc/Hz)	2000 MHz	8000 MHz
1 KHz Offset .....	<-95	<-90
10 KHz Offset .....	<-100	<-95
100 KHz Offset .....	<-120	<-95
1 MHz Offset .....	<-140	<-120

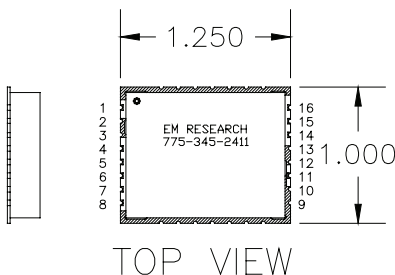
#### Temperature Ranges (Operating)

Standard .....	-20°C to +60°C
Other Available Ranges .....	-30°C to +70°C
.....	-40°C to +85°C

Package Size .....	1.25" x 1" x 0.25"
.....	(31.8 x 25.4 x 6.4)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. Tape-and-Reel available for high volume quantities.
2. Demoboards and Reference Modules available.
3. All dimensions are in inches unless otherwise specified.
4. Diagrams and pictures shown are examples only.

HFS Series\_Prog\_Product Overview Datasheet, Rev B, 8.4.14



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