

Frequency:	2000 to 2500 MHz
Step Size:	10 MHz
Switching Speed:	<5 mSec
Reference:	100 MHz, External
Output Power:	+5 dBm
Harmonics:	<-15 dBc
Spurs:	<-60 dBc
Supply:	+5V @ 120 mA (D-VCC) +8V @ 80 mA (A-VCC)
Temp Range:	-40°C to +85°C, operating
Package:	1.25" x 1" x 0.24" • (31.8 x 25.4 x 6.4)mm



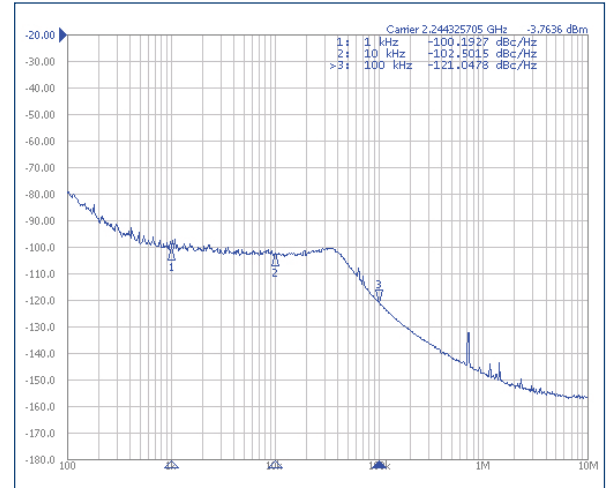
*Custom frequencies available. All specifications are typical unless otherwise specified and subject to change without notice.

Description

The HFS-2500 from EM Research operates over 2000 - 2500 MHz for advanced Electronic Warfare applications. This unit features exceptionally low phase noise (<-121 dBc/Hz @ 100 KHz offset), fast switching (<5 mSec), 10 MHz step size, +5 dBm output power; supply voltages are +5/+8 VDC and programming is via 3-wire serial interface. The HFS-2500 is housed in a small, surface-mount package (1.25" x 1" x 0.24") and operates in harsh environments over the temperature range -40°C to +85°C.

EM Research offers the HFS-Series in custom designs from 50 MHz to 8 GHz with fixed-to-greater-than octave bandwidths, step sizes of 100 KHz to 10 MHz, and output power levels to +15 dBm. The HFS-Series is available with customer-supplied references from 5 to 125 MHz or optional internal references, and with select supply voltages (+5, +8 or +12 VDC)

Plot



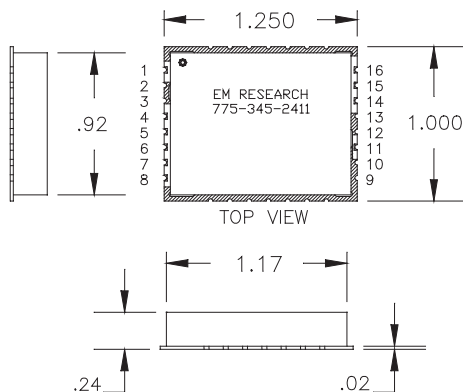
Applications

- Electronic Warfare
- Telemetry
- Base Stations
- Satellite Communications

Typical Phase Noise @ 2200 MHz

- Phase Noise: <-95 dBc/Hz @ 1 KHz
- <-100 dBc/Hz @ 10 KHz
- <-121 dBc/Hz @ 100 KHz
- <-140 dBc/Hz @ 1 MHz

Package



PIN OUT TABLE

PIN	OUT
1	D-VCC
2	GND
3	GND
4	LOCK
5	CLOCK
6	DATA
7	ENABLE
8	REF TUNE
9	GND
10	GND
11	GND
12	GND
13	GND
14	RF OUT
15	GND
16	A-VCC

Note: All dimensions are in inches, unless otherwise specified

*Drawing not to scale