

# FST Series

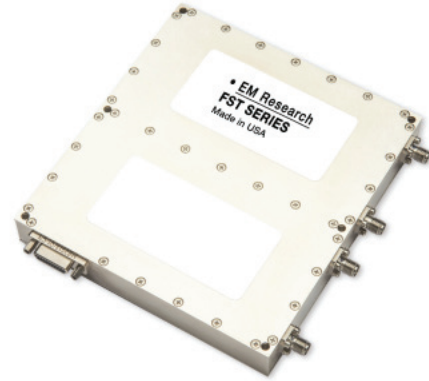
## PRODUCT SERIES OVERVIEW

# Fast Switching Frequency Synthesizer

## 10 to 4000 MHz (In-Bands)

### FEATURES

- Fast Switching Design ( down to 500 nSec)
- Programmable Frequencies to 4 GHz
- Narrow Bandwidths ( $\leq 5\%$ )
- Low Phase Noise
- Optional Internal Reference



Custom Designs Available

### SPECIFICATIONS

Frequency Range .....	10 to 4000 MHz
Bandwidth .....	$\leq 5\%$
Step Size .....	down to 1 MHz
Switching Speed .....	down to 500 nSec
External Reference .....	10 to 500 MHz
Internal Reference (Optional) .....	$\pm 2.5$ ppm, Stability
Power Output .....	up to +10 dBm
Harmonics .....	<-20 dBc
Spurs .....	<-60 dBc
Supply Options .....	+5, +8, +12, +15 VDC
Current .....	$\leq 900$ mA

Phase Noise (dBc/Hz)	1000 MHz	4000 MHz
1 KHz Offset .....	<-104	<-92
10 KHz Offset .....	<-124	<-112
100 KHz Offset .....	<-134	<-122
1 MHz Offset .....	<-136	<-124

#### Temperature Ranges (Operating)

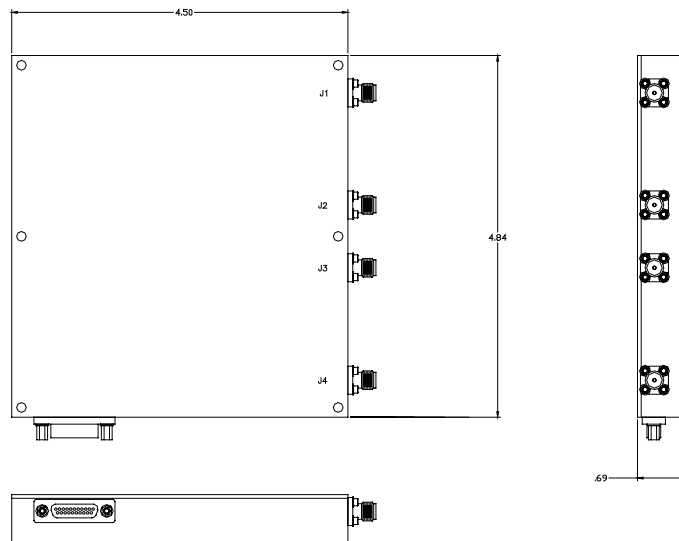
Standard .....	0°C to +50°C
Other Available Ranges .....	-20°C to +60°C
.....	-30°C to +70°C
.....	-40°C to +85°C

Package Size (Various) .....	4.5" x 2.5" x 0.69" (Typical)
.....	(114.3 x 63.5 x 17.5)mm
.....	6" x 4.5" x 0.6" (Optional)
.....	(152.4 x 114.3 x 15.2)mm

Programming Interface .....

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. All dimensions are in inches unless otherwise specified.
  2. Diagrams and pictures shown are examples only.

FST Series\_Product Overview Datasheet, Rev B, 12.7.15



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