

# MBS Series

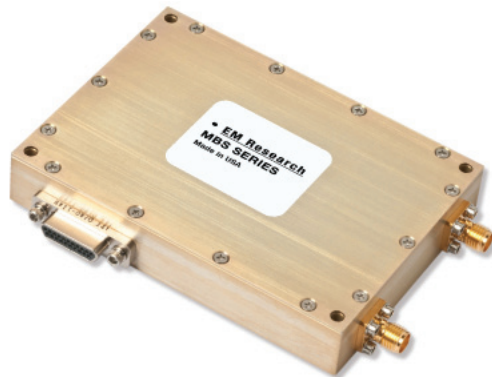
## PRODUCT SERIES OVERVIEW

# Multi-Octave, Programmable Frequency Synthesizer

## 10 MHz to 13 GHz (In-Bands)

### FEATURES

- Multi-Octave Bandwidths Available
- Programmable Frequencies to 13 GHz
- Output Power to +14 dBm Available
- Low Power Consumption
- Optional Internal Reference



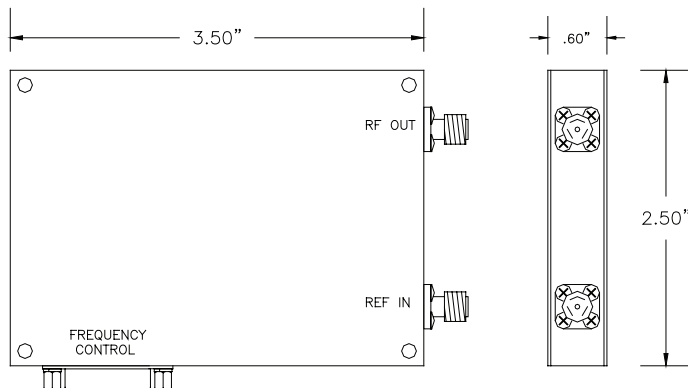
Custom Designs Available

### SPECIFICATIONS

Frequency Range .....	10 MHz to 13 GHz	Phase Noise (dBc/Hz)	4000 MHz	12 GHz
Bandwidth .....	Multi-Octave	1 KHz Offset .....	<-80	<-80
Step Size .....	200 KHz to 10 MHz	10 KHz Offset .....	<-85	<-90
External Reference .....	5 to 200 MHz	100 KHz Offset .....	<-105	<-93
Internal Reference (Optional) .....	$\pm 2.5$ ppm, Stability	1 MHz Offset .....	<-125	<-118
Power Output .....	up to +14 dBm	Temperature Ranges (Operating)		
Harmonics .....	<-20 dBc	Standard .....	0°C to +50°C	
Spurs .....	<-60 dBc	Other Available Ranges .....	-20°C to +60°C	
Supply Options .....	+5, +8, +12 VDC		-30°C to +70°C	
Current .....	$\leq 500$ mA		-40°C to +85°C	
Package Size .....	3.5" x 2.5" x 0.6"	Programming Interface .....		3-Wire, Serial
	(88.9 x 63.5 x 15.2)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. All dimensions are in inches unless otherwise specified.
  2. Diagrams and pictures shown are examples only.

MBS Series\_Product Overview Datasheet, Rev A, 8.29.14