

ZFR Series

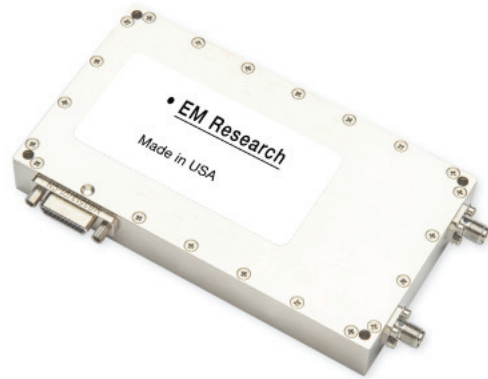
PRODUCT SERIES OVERVIEW

Small Step Size, Low Phase Noise Frequency Synthesizer

250 MHz to 20 GHz (In-Bands)

FEATURES

- Programmable Frequencies to 20 GHz
- Small Step Sizes (down to 1 KHz)
- Broadband Designs Available (up to 4 Octaves)
- USB Programming Now Available
- Fast Switching Units Available (down to 100 μ Sec.)
- Optional Internal Reference



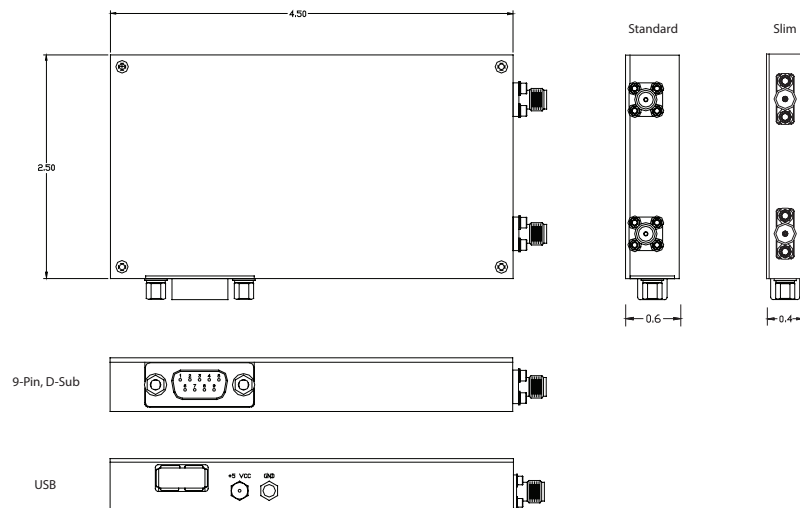
Custom Designs Available

SPECIFICATIONS

Frequency Range.....	250 MHz to 20 GHz	Phase Noise (dBc/Hz)	10000 MHz	18000 MHz
Bandwidth.....	up to 4 Octaves	1 KHz Offset	<-92	<-86
Step Size	down to 1 KHz	10 KHz Offset	<-96	<-90
Switching Speed.....	down to 100 μ Sec.	100 KHz Offset	<-96	<-90
External Reference.....	10, 100 MHz	1 MHz Offset.....	<-106	<-100
Internal Reference (Optional)	± 2.5 ppm, Stability	10 MHz Offset.....	<-133	<-127
Power Output.....	up to +18 dBm	Temperature Ranges (Operating)		
Harmonics	<-15 dBc	Standard.....	0°C to +50°C	
Spurs	<-60 dBc	Other Available Ranges.....	-20°C to +60°C	
Supply Options	+8 to +15 VDC	-30°C to +70°C	
Current.....	≤ 1500 mA	-40°C to +85°C	
Package Size (Standard).....	4.5" x 2.5" x 0.6"	Programming Interface	3-Wire, Serial	
.....	(88.9 x 63.5 x 15.24)mm			
Package Size (Slim).....	4.5" x 2.5" x 0.4"			
.....	(88.9 x 63.5 x 10.16)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.

ZFR Series_Product Overview Datasheet, Rev C, 5.15.15