



GENERAL DESCRIPTION

The ZFR series combines small step size, fast switching speed, good phase noise, and a compact package size. It is a versatile synthesizer that can be tailored to the specific frequency range and control interface required. It is used in applications from lab bench-tops to airborne military electronics.

ZFR SERIES FEATURES

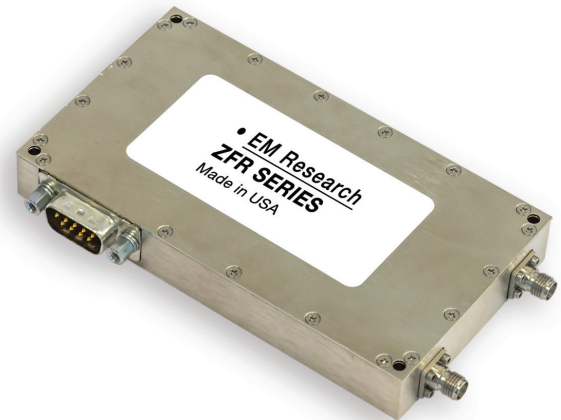
- Fast switching capabilities, designed for 120 μ sec
- Programmable frequencies to 20 GHz
- Step sizes as low as 10 kHz
- Multi-octave bandwidth, up to 4 octaves
- Low phase noise
- Small package size, 4.5" x 2.5" x 0.6"

ZFR SERIES OPTIONS

- Configurable step size
- Switch speeds < 150 μ sec available
- Internal reference available
- Temperature ranges up to -40°C to +85°C
- Slim package available, 4.5" x 2.5" x 0.4"

GENERAL SPECIFICATIONS

External Reference	5 to 100 MHz
Internal Reference	± 2.5 ppm, Stability
Power Output	Up to +18 dBm
Harmonics	-15 dBc Max
Spurs	-60 dBc Max
Supply Options	+5 to +15 VDC
Current	1500 mA @ +5 V, Max
Programming Interface	3-Wire, Special



APPLICATIONS

- Laboratory testing
- Remote sensing / Monitoring
- Electronic countermeasures
- Radar systems

TYPICAL PHASE NOISE (dBc / Hz)

Offset	10 GHz	18 GHz
1 KHz	-92	-86
10 KHz	-96	-90
100 KHz	-96	-90
1 MHz	-106	-100
10 MHz	-133	-127

Final product specifications will vary upon customer's parameters

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