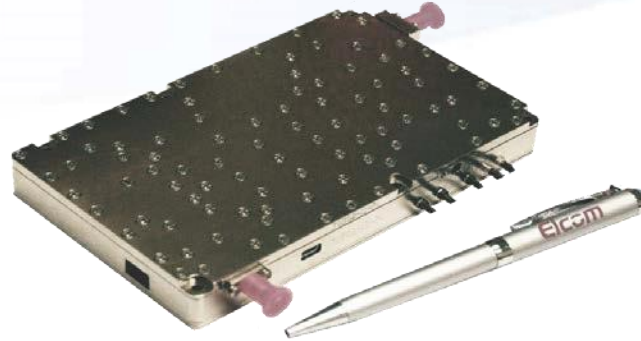




DFS-2000 0.625 to 20 GHz

High Precision Fast Tuning Synthesizer

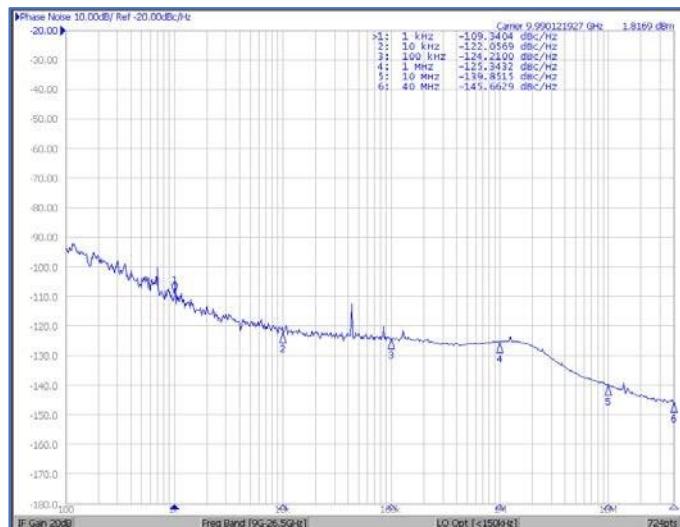


FEATURES

- 0.625 to 20 GHz in a Single Module (14 cubic inches)
- Ultra-Low Phase Noise (-120 dBc, 200 KHz offset from 20 GHz signal)
- -150 dBc Wide Band Noise Floor
- 10 Microseconds Max tuning Speed (For faster speeds contact factory)
- Close in Spurious ± 100 MHz < -65 dBc
- Step Resolution Options From 10 MHz to 1 Hz
- List and Trigger Sweep
- Small Size Single Module: 5.95 x 3.65 x 0.75 Inches
- VME Version Available
- Optional Harmonic Filter Module available

APPLICATIONS

- System Calibration Source
- EW / SIGINT Receivers
- Radar Test
- Flight Line Testers
- Instrumentation





Frequency Range:	0.625 - 20 GHz
Step Size:	1 MHz (10 MHz to 1 Hz Optional)
Switching Speed	10 microseconds. Contact Factory for faster options.
Output Power	12 dBm +/- 3 dBm
Harmonics	-15 dBc
Subharmonics (10 - 20 GHz only)	-20 dBc
Close in Spurious Within \pm 100 MHz of IF	-65 dBc
Spurious (>100 MHz offset)	-60 dBc 10-20 GHz -68 dBc 5-10 GHz -72 dBc 1-5 GHz

Phase Noise (Typical) [dBc]

Frequency [GHz]		1.25 -2.5	2.5-5.0	5.0-10	10-20
1 KHz	offset	-122	-116	-110	-100
10 KHz	offset	-132	-126	-120	-115
100 KHz	offset	-135	-129	-123	-117
1 MHz	offset	-135	-129	-123	-120
10 MHz	offset	-152	-146	-140	-135
Floor		-153	-151	-150	-150

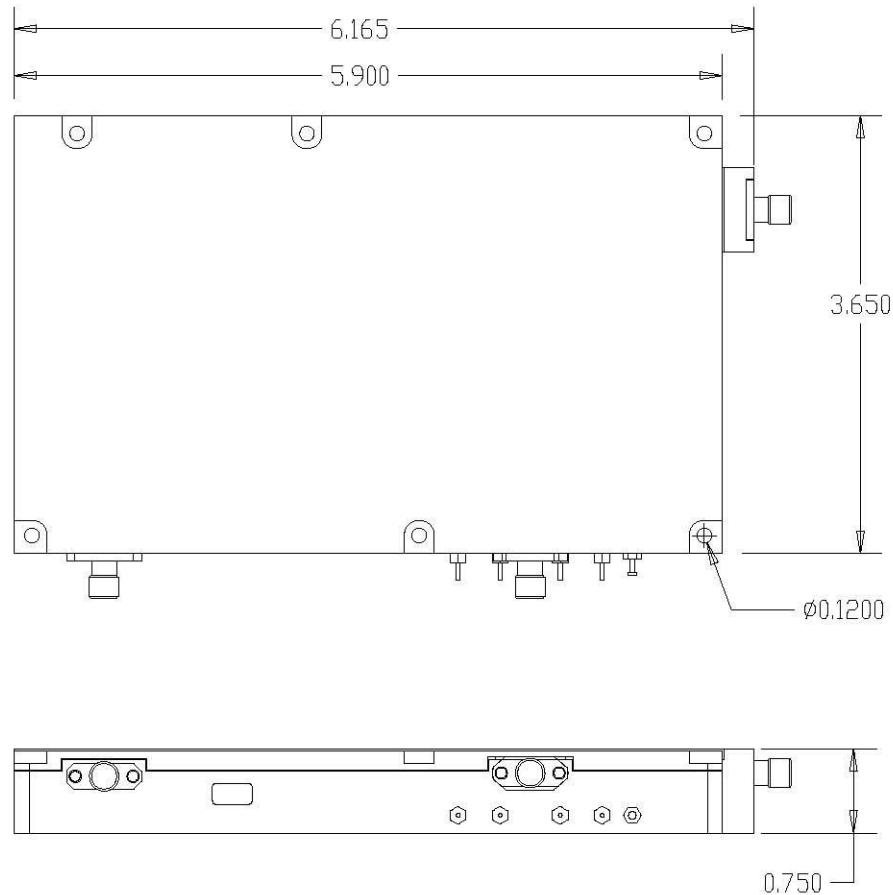
External Reference Input

Frequency	100 MHz
Input Level	12 dBm +/- 3 dBm

DC Supply

+3V / 6V / 20V / -12V	0.4 A / 2.3A / 0.1A / 0.1A
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*Optional second module available for +23dBm output power amplification, harmonic / subharmonic filtering and pulse modulation. Contact factory for details.



FOR ADDITIONAL INFORMATION CONTACT
sales@fei-elcomtech.com

ABOUT FEI-ELCOM TECH, Inc

Elcom designs and manufactures instruments and modules in the RF and Microwave frequency spectrum for broadband and narrow band applications in ATE, Aerospace/ Defense, SIGINT and commercial communications. Proprietary technologies include low phase noise fast switching direct analog synthesis, low noise indirect PLL designs, and RF DSP up to 67 GHz.

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