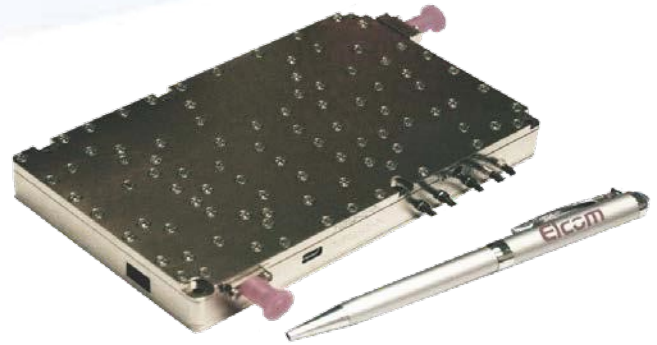
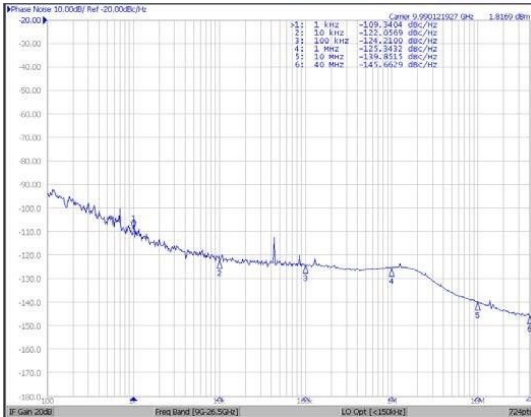




## VPXDFS-2000

### 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  $\pm 100$  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
- 3U SOSA Aligned VPX Version Available
- Optional Harmonic Filter Module available
- Wide FM Chirp, On Pulse FM Modulation
- Accurate digital frequency synthesis
- Output phase coherent to the reference and coherent switching

#### APPLICATIONS

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



## VPXDFS-2000

### High Precision Fast Tuning Synthesizer

Frequency Range:	0.625 - 20 GHz		
Step Size:	1 MHz (10 MHz to 1 Hz Optional)		
Switching Speed	10 microseconds.		
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
Format	3U VPX