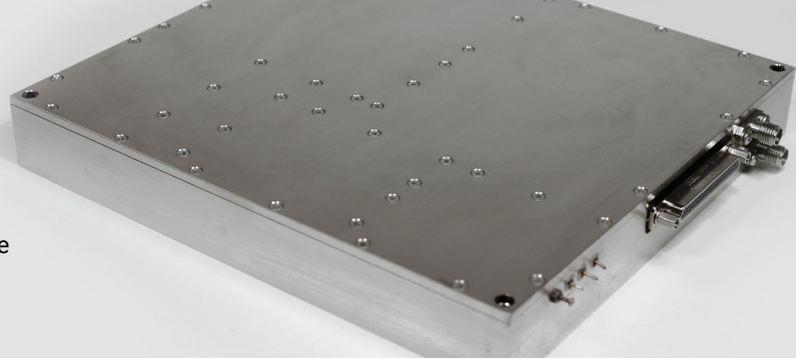


### Features

- High-Speed Wideband Direct Synthesizer
- .1 – 20GHz
- 300nsec Tuning Speed
- DDS Based Tuning
- Phase Coherent Option

### Applications

- EW / SIGINT
- Radar Test Equipment
- Microwave Radio
- Instrumentation Module



### Performance Specifications

PARAMETER	VALUE
Frequency Range	.1 - 20 GHz
DDS Bandwidth	200 MHz
Step Size	1.0 Hz
Tuning Speed	< 300nsec, any frequency
Output Power	+ 10 dBm
Power Variation	+/- 3 dB
Harmonics	-20 dBc
Spurious	-55 dBc @ 5-10 GHz
	-60 dBc @ < 5 GHz
	-50 dBc @ > 10 GHz
Phase Noise (typical @ 10 GHz)	
100 Hz	-85 dBc/Hz
1 kHz	-105 dBc/Hz
10 kHz	-110 dBc/Hz
100 kHz	-115 dBc/Hz
1 MHz	-125 dBc/Hz
Frequency Accuracy	Determined by Ext Ref
Reference Frequency	100 MHz External
Input Reference Power	+5 to +10 dBm
Programming (LVTTTL)	Parallel 36-bit, w/Lock Det
Supply Voltage	+5 VDC, 2500 mA
	+15 VDC, 250 mA
	-5 VDC, 800 mA
Operating Temp	-40 to +85 deg. C
Physical	SMA(F)
	Micro-D 51 pin connector

