

Synthesizers

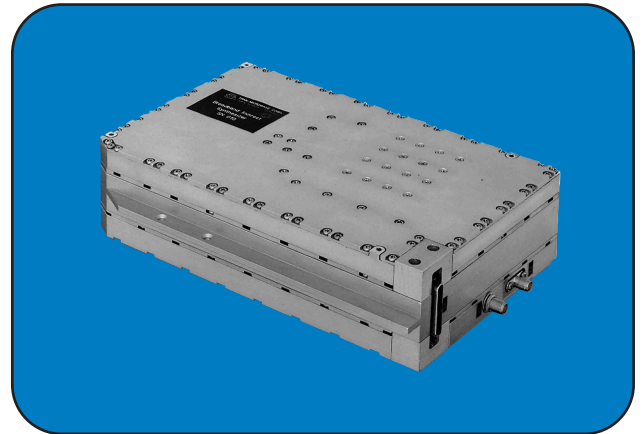
Wideband Frequency Synthesizer, 10 - 20 GHz

Model: SYN101



Features:

- Octave Frequency Coverage
- Small Package: 80 cubic inches
- Fast Switching Speed
- Suitable for High Vibration



Electrical Specifications

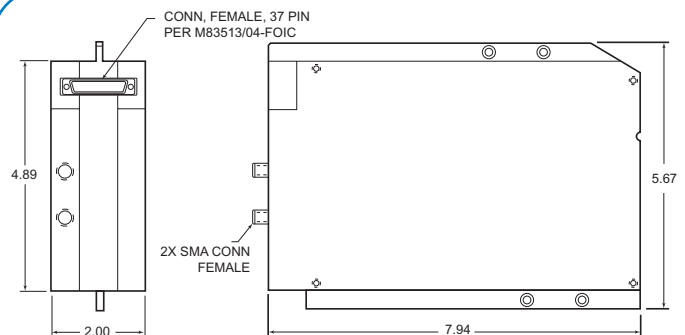
Frequency Range:	10 - 20 GHz, approximate
Step Size:	5 MHz, typical
Switching Speed:	150 μ s, typical
Output Power:	+ 5 dBm \pm 2 dB
SSB Phase Noise (dBc/Hz, typical):	
Offset	
10 kHz	- 70
100 kHz	- 75
1 MHz	- 115
10 MHz	- 140
Stability:	\pm 2 ppm, maxi; 0.2 ppm, typ.
Reference Output:	100 MHz @ + 2 dBm \pm 2 dB
Spurious:	- 60 dBc, max; - 65 dBc, typ.
Harmonics:	- 15 dBc, max; - 25 dBc, typ.
Tuning Control:	11 bit Parallel TTL & Strobe
BITE Scheme:	RF Power & Phase Lock bits
Output VSWR:	1.5:1
DC Power:	\pm 15 V, + 5 V (35 W)

Environmental Specifications

Operating Temperature: - 40 to + 70 °C, baseplate
Environment: Airborne

Mechanical Specifications

Size: (nominal) 8 x 5 x 2 inches
203 x 127 x 51 mm
Weight: 4.8 lbs (2.2 kg), maximum
RF Connectors: SMA Female
DC Connector: 37 Pin MDM



Specifications subject to change without notice.