

Synthesizers
Dual Output Synthesizer, 9 - 10 GHz
Model: SYN147



Features:

- Dual Output
- Pulse Modulation Input
- Designed For Rugged Environment
- Low Phase Noise Under Vibration



Electrical Specifications

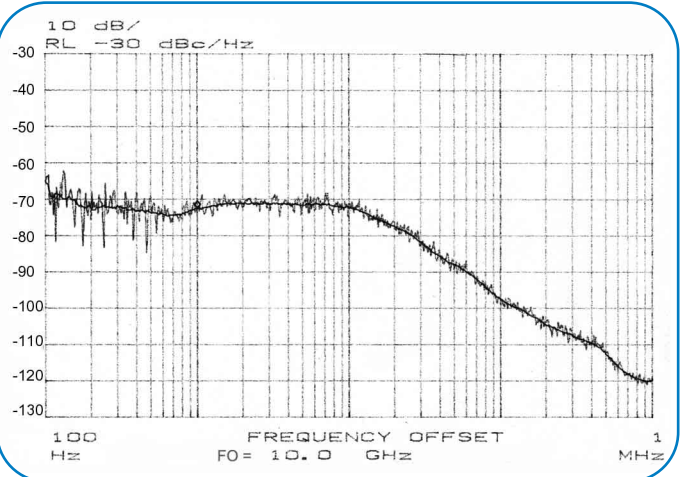
	CH1	CH2
Frequency Range:	8.995 - 9.995 GHz	9.0 - 10.0 GHz
Step Size:	5 MHz	20 MHz
Switching Speed:	1 msec	1 msec
Pulse Modulation:		1 μ s
Output Power:	+ 10 dBm	+ 8 dBm
Power Flatness:	\pm 2 dB	\pm 2 dB
SSB Phase Noise (dBc/Hz, typical):		
Offset		
0.1 kHz	- 65	-70
1 kHz	- 72	-72
10 kHz	- 72	-72
1 MHz	-120	-120
Temp. Stability:	\pm 60 ppm	\pm 60 ppm
Spurious:	- 60 dBc, max	- 60 dBc, max
Harmonics:	- 55 dBc, max	- 55 dBc, max
VSWR:	1.5:1	1.5:1
Tuning Control:	3 Wire Serial	3 Wire Serial
BITE Scheme:	Phase Lock	Phase Lock
DC Power:	+ 15 V @ 350mA, typical - 15 V @ 50mA, typical + 5 V @ 350mA, typical	
Power Consumption:	8 W, typical	

Environmental Specifications

Operating Temperature: - 40 to + 75 °, baseplate
 Vibration Sensitivity: 1×10^{-9} /g, typical
 Environment: Missile

Mechanical Specifications

Size (nominal): 5.9 x 4.1 x 1.6 inches
 170 x 105 x 40 mm
 Weight: 2.2 lbs (1 kg) approx.
 Connectors: MDM - 25F, SMA RF



Specifications subject to change without notice.