

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

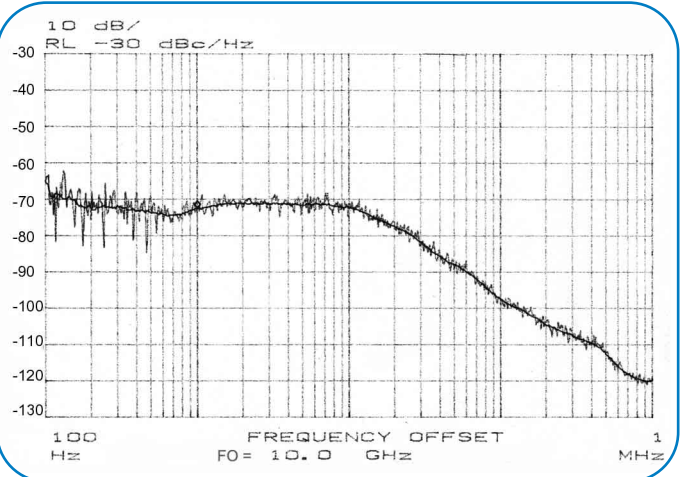
| | CH1 | CH2 |
|------------------------------------|---|----------------|
| Frequency Range: | 8.995 - 9.995 GHz | 9.0 - 10.0 GHz |
| Step Size: | 5 MHz | 20 MHz |
| Switching Speed: | 1 msec | 1 msec |
| Pulse Modulation: | | 1 μ s |
| Output Power: | + 10 dBm | + 8 dBm |
| Power Flatness: | \pm 2 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.