

Synthesizers

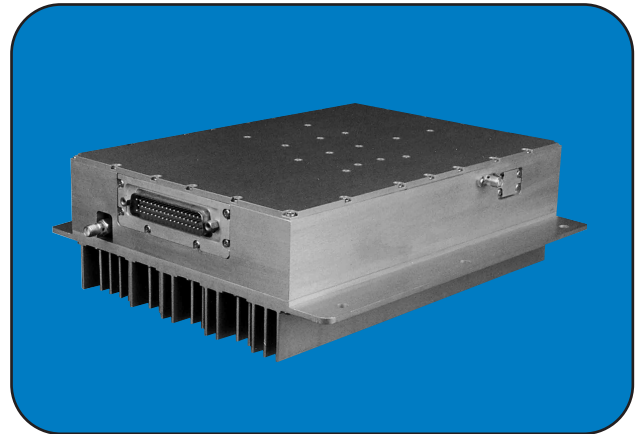
Modulated Synthesizer, 2.9 - 3.1 GHz

Model: SYN093



Features:

- Variable Modulation Schemes
- High Power Output: 1 W minimum
- Bit Detection



Electrical Specifications

Frequency Range:	2.9 - 3.1 GHz
Step Size:	250 kHz
Switching Speed:	500 μ s, typical
Output Power:	+ 32.0 dBm \pm 1 dB
SSB Phase Noise (dBc/Hz, typical):	
Offset	
1 kHz	- 80
10 kHz	- 85
100 kHz	- 100
1 MHz	- 120
10 MHz	- 145
Modulation Clock:	10 MHz, Differential TTL
Test Output:	480 MHz
Spurious:	- 50 dBc, maximum
Harmonics:	- 45 dBc, maximum
Output VSWR:	1.3:1, maximum
Tuning Control:	10 bit Parallel, Differential TTL
BITE Scheme:	Failure Alarm & Parity bits
Pulse On/Off Ratio:	60 dB, minimum
Modulation:	Continuous Shift Quadrature, 13 bit Barker Code
DC Power:	\pm 15 V, + 5 V
Power Consumption:	23 W (Pulsed)

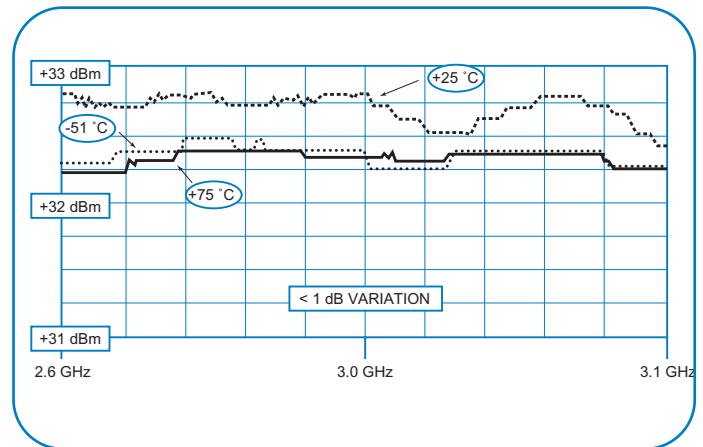
Environmental Specifications

Operating Temperature:	- 54 to + 75 $^{\circ}$ C, baseplate
Environment:	Various

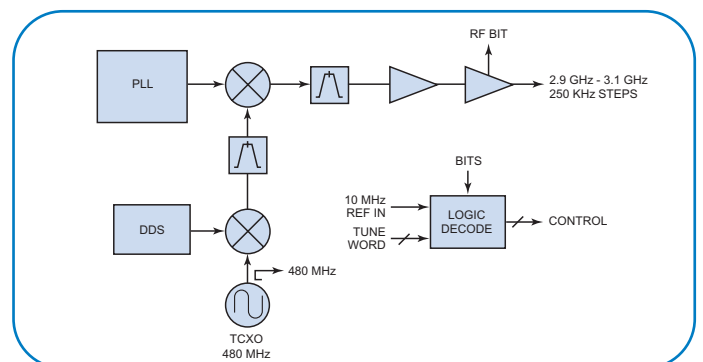
Mechanical Specifications

Size (no connectors): ^{Note 1}	9 x 6.1 x 1.8 inches 229 x 155 x 46 mm
Weight: ^{Note 1}	3 lbs (1.36 kg)
RF Connectors:	SMA Female
DC Connector:	50 pin Type D

Note 1: Measurements without heat sink



Power Output vs. Frequency and Temperature



Specifications subject to change without notice.