

Synthesizers

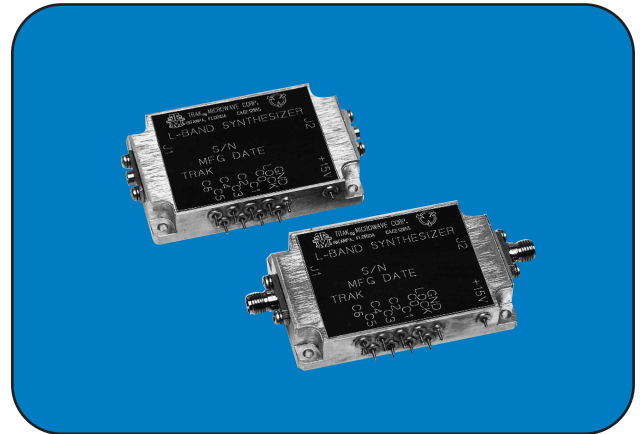
Miniature Indirect Synthesizer, 0.725 - 1.275 GHz

Model: SYN087



Features:

- Low Phase Noise Under Vibration
- Fast Switching: 25 μ s
- Small Size: < 1.7 cubic inches & < 3 ounces
- Low Power Consumption: < 5 W
- BIT for Phase Lock



Electrical Specifications

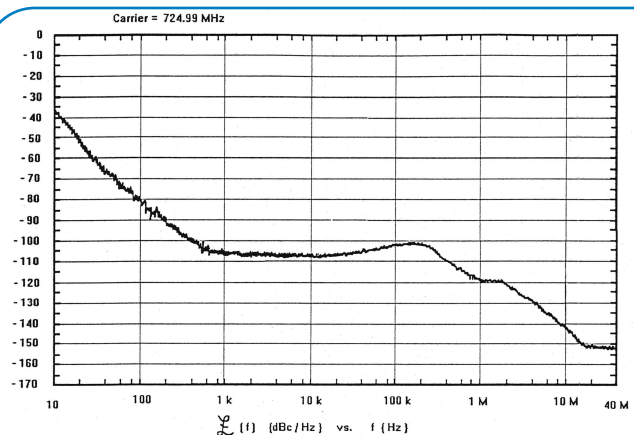
Frequency Range:	725-1275 MHz
Step Size:	5 MHz
Switching Speed:	25 μ s maximum to within 100 kHz of the final frequency
Output Power:	+ 10 dBm \pm 1 dB, typical
SSB Phase Noise @ 725 MHz (dBc/Hz, typical):	
Offset	
100 Hz	- 80
1 kHz	- 103
10 kHz	- 103
100 kHz	- 100
1 MHz	- 118
10 MHz	- 142
100 MHz	- 150
Reference Signal:	100 MHz input @ 0 dBm, nominal
Accuracy:	Same as Reference Input
Spurious:	- 60 dBc, maximum
Harmonics:	- 25 dBc, max; - 30 dBc, typical
Tuning Control:	7 bit Parallel (not decoded)
BITE Scheme:	Phase Lock BIT (TTL "0" = lock indicated)
DC Power:	+ 15 V @ 310 mA, nominal
Power Consumption:	4.65 W, nominal

Environmental Specifications

Operating Temp.: - 20 to + 85 °C, baseplate
Environment: Airborne

Mechanical Specifications

Size (no connectors): 2.4 x 1.5 x 0.46 inches
61 x 38 x 12 mm
Weight: 2.4 oz (68 g), maximum
RF Connectors: GPO (or Field Replaceable SMA)
DC Connector: Feedthru Pins



Specifications subject to change without notice.

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