

Synthesizers

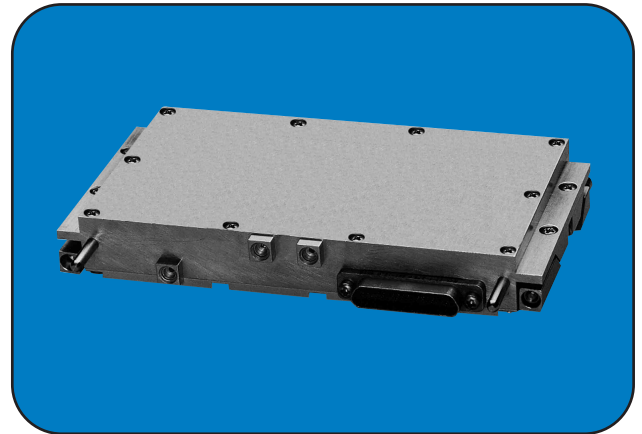
Fast Indirect Frequency Synthesizer, 0.55 - 1.85 GHz

Model: SYN085



Features:

- Fast Switching: < 35 μ s
- Small Size: 9 cubic inches
- Low Spurious: 65 dBc
- Wide Temperature Range: - 55 to + 95 $^{\circ}$ C



Electrical Specifications

Frequency Range:	0.55 - 1.85 GHz, approximate
Step Size: ^{Note 1}	1 MHz (Mode 1) 4 MHz (Mode 2)
Switching Speed:	80 μ s, max to within 1 MHz (Mode 1) 35 μ s, max to within 1 MHz (Mode 2)
Output Power:	+ 15 dBm \pm 1 dB, nominal
SSB Phase Noise (dBc/Hz, typical): ^{Note 2}	
Offset	
1 kHz	- 90
10 kHz	- 90
100 kHz	- 95
1 MHz	- 126
10 MHz	- 142
Reference Input:	100 MHz @ - 5 dBm, nominal
Spurious:	- 65 dBc, maximum
Harmonics:	- 15 dBc, maximum
Tuning Control:	Custom parallel TTL, Latched
BITE Scheme:	RF Power & Lock bits
DC Power:	+ 15 V @ 325 mA, typical - 15 V @ 55 mA, typical + 5 V @ 410 mA, typical
Power Consumption:	6.2 W, typical; 7.75 W, max

Note 1: Resolution as fine as 500 kHz is available, although other performance parameters may vary.

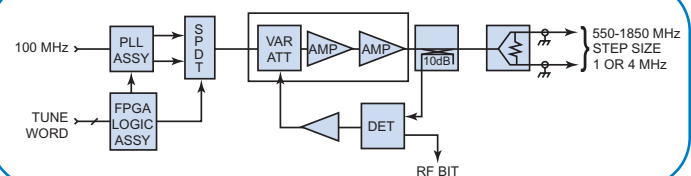
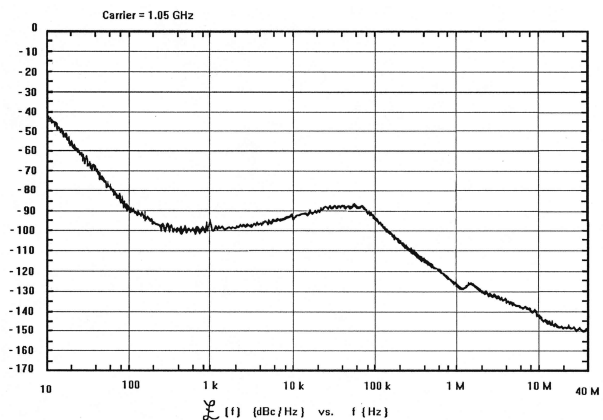
Note 2: Phase noise listed is relative to the phase noise of the input reference oscillator and is based on Mode 1 operation.

Environmental Specifications

Operating Temperature: - 55 to + 95 $^{\circ}$ C, baseplate
Environment: Airborne

Mechanical Specifications

Size: (nominal) 4.5 x 2.5 x 0.8 inches
114 x 64 x 20 mm
Weight: 10 oz (284 g) nominal
RF Connectors: GPO



Specifications subject to change without notice.