

# Synthesizers

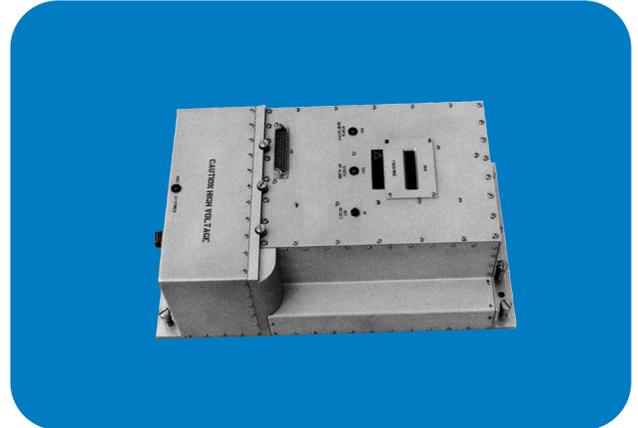
## Direct Synthesizer, 7 - 9 GHz

### Model: SYN096



### Features:

- Fast Switching: 500 ns, maximum
- Good Close-In Phase Noise
- Modular Construction
- Built-in Power Supply



### Electrical Specifications

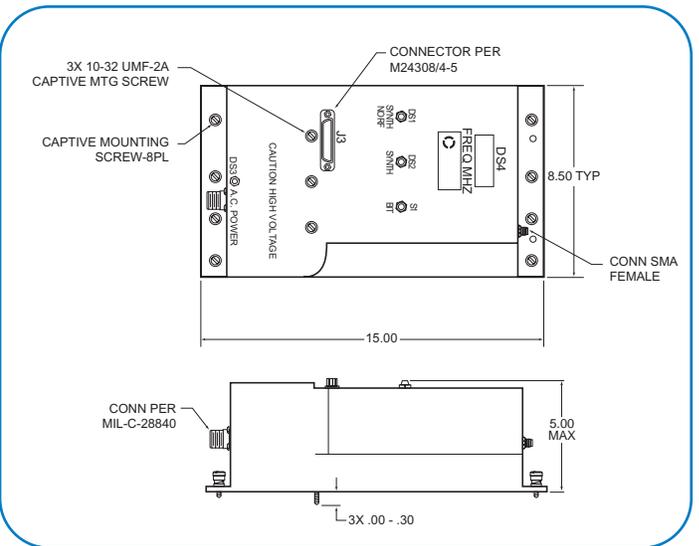
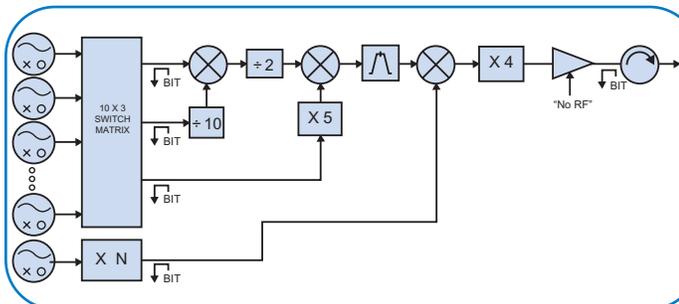
Frequency Range:	7 - 9 GHz, 1 GHz Bandwidth
Step Size:	1 MHz
Switching Speed:	500 ns, maximum
Output Power:	+ 19 dBm $\pm$ 2 dB
Output Attenuation:	- 60 dB for "No RF" state
VSWR:	1.5:1, maximum
SSB Phase Noise (dBc/Hz, typical):	
<b>Offset</b>	
10 kHz	- 110
100 kHz	- 115
1 MHz	- 120
Spurious:	- 60 dBc, maximum
Harmonics:	- 60 dBc, maximum
Tuning Control:	8 bit TTL plus Strobe
BITE Scheme:	AC Applied, RF Power, Failure & Parity bits
AC Power:	+ 115 V, 400 Hz (85 W)

### Environmental Specifications

Operating Temperature:	0 to + 70 °C
Environment:	Shipboard

### Mechanical Specifications

Size: (nominal)	15 x 8.5 x 5 inches 381 x 216 x 127 mm
Connectors:	M28840 & M24308 types



Specifications subject to change without notice.