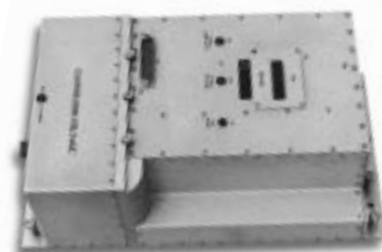


SPECIAL FEATURES

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



This custom direct analog synthesizer was designed especially for fast switching and good spectral purity under vibration. Operating from a bank of TRAK-manufactured, SC-Cut crystal oscillators, the unit covers 1 GHz bandwidth through a unique frequency conversion scheme.

Excellent maintainability is achieved through a custom digital interface which allows for failure detection to one of five major subassemblies. The unit includes AC to DC converters, but if DC power and decoded control logic are available, unit volume can be reduced up to 60 percent.

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):

offset	
10 kHz	- 110
100 kHz	- 115
1 MHz	- 120

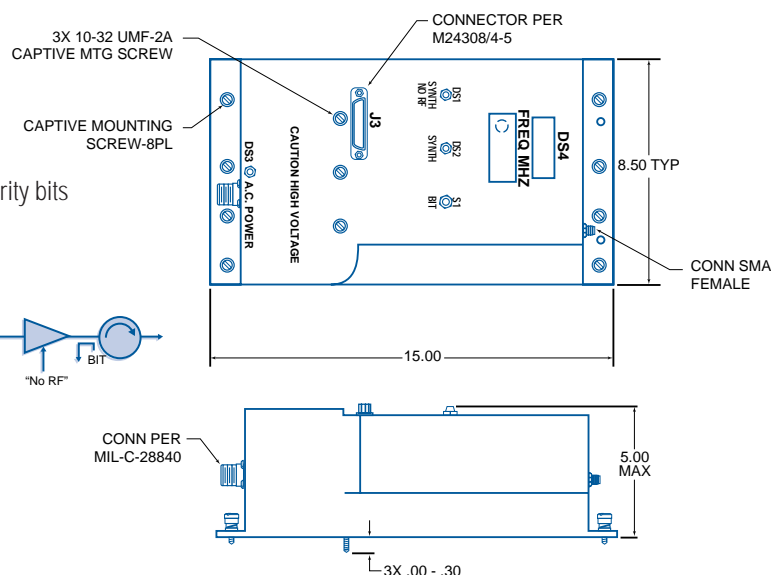
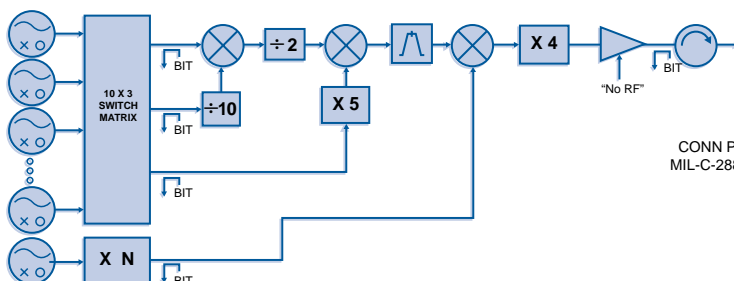
Spurious: - 60 dBc, maximum
 Harmonics: - 60 dBc, maximum
 Tuning Control: 8 bit TTL plus Strobe
 BITE Scheme: AC Applied, RF Power, Failure & Parity bits
 AC Power: + 115 V, 400 Hz (85 W)

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.