

## SPECIAL FEATURES

- Octave + Bandwidth
- Fast Switching: 250  $\mu$ s
- Built-In-Test Functions



This indirect synthesizer provides both wide bandwidth and moderate switching speeds in a package volume less than 155 cubic inches. The 625 kHz resolution is achieved using a dual loop architecture.

The unit is comprised of two trays, each housing disparate electrical functions. A summed phase lock bit is available as well as an option for military component selection.

### ELECTRICAL SPECIFICATIONS

Frequency Range:	8 - 18 GHz, approximate
Step Size:	625 kHz
Switching Speed:	250 $\mu$ s, typical
Output Power:	+ 10 dBm $\pm$ 2 dB typical

SSB Phase Noise (dBc/Hz, typical, @ 18 GHz):

offset	
100 Hz	- 65
1 kHz	- 78
10 kHz	- 80
100 kHz	- 88
1 MHz	- 115

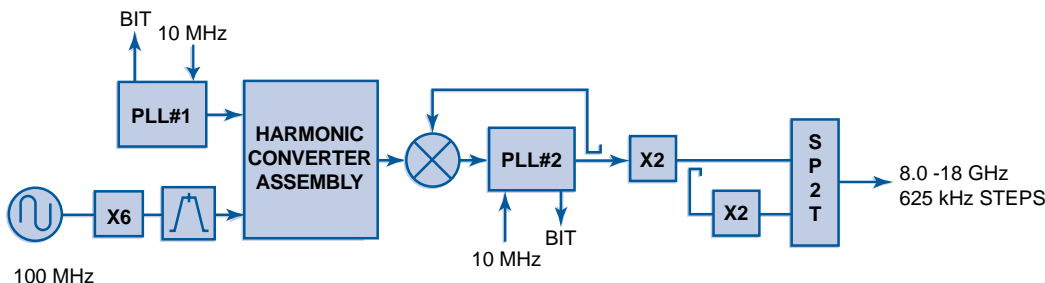
Stability:	$\pm$ 5 ppm
Spurious: (maximum)	- 50 dBc ( $F_c \pm$ 10 MHz) - 60 dBc (Out-of-band)
Harmonics:	- 40 dBc, maximum
Tuning Control:	14 bit Differential TTL & Strobe
BITE Scheme:	Phase Lock bit, optional
DC Power:	$\pm$ 15 V, + 5 V (40 W)
MTBF:	25,000 hrs (+ 65 $^{\circ}$ C)

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	0 to + 65 $^{\circ}$ C, baseplate
Environment:	Shipboard and Ground

### MECHANICAL SPECIFICATIONS

Size (nominal):	7 x 6.2 x 3.6 inches 178 x 157 x 91 mm
Weight:	8 lbs (3.6 kg), maximum
RF Connectors:	SMA Female
DC Connector:	50 pin D Type



Specifications subject to change without notice.