

# Multi-Function Assemblies

Seven Output Local Oscillator Assembly, 1.65 - 2.9 GHz  
Model: MFS116



## Features:

- Combines: Synthesizers, LO's, Reference Signal Distribution Network
- Agile & STALO Outputs
- 7 Coherent Outputs
- Low Spurious: - 80 dBc, maximum
- Low Phase Noise: - 104 dBc/Hz @ 100 Hz
- 1 Hz Step Size Optional
- Rugged, Modular Construction
- 19" Rack Mount



## Electrical Specifications

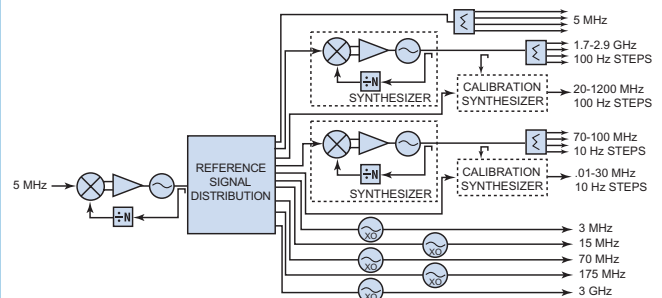
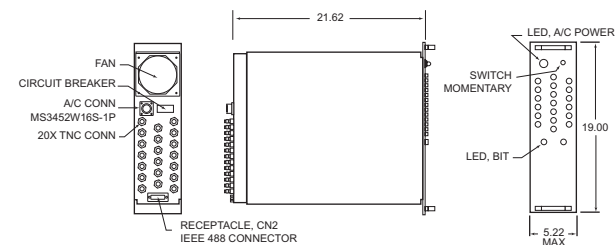
Frequency Range:	1.65 - 2.9 GHz, Primary 70 - 100 MHz, Secondary
Step Size:	100 Hz, Primary 10 Hz, Secondary
Switching Speed:	< 500 $\mu$ s, typical
Output Power:	- 12 dBm $\pm$ 1 dB (Calibration Ports) + 13 dBm $\pm$ 1 dB
Local Oscillators:	3, 5, 15, 70, 175 & 3000 MHz
SSB Phase Noise (dBc/Hz, typical @ 100 MHz):	
<b>Offset</b>	
100 Hz	- 104
1 kHz	- 110
100 kHz	- 123
1 MHz	- 145
Reference Input:	5 MHz at 0 dBm
Spurious:	- 80 dBc, typical
Harmonics:	- 30 dBc, typical
Tuning Control:	IEEE-488 Bus plus Strobe
BITE Scheme:	AC Applied, Phase Lock, Reference Failure bits
AC Power:	+ 120 V, 60 Hz (120 W)

## Environmental Specifications

Operating Temperature:	0 to + 50 °C
Environment:	Shipboard

## Mechanical Specifications

Size (nominal):	21.6 x 19 x 5.22 inches 549 x 483 x 133 mm
Weight (maximum):	50 lbs (22.7 kg)
Connectors:	See Package Drawing



Specifications subject to change without notice.