

Multipliers

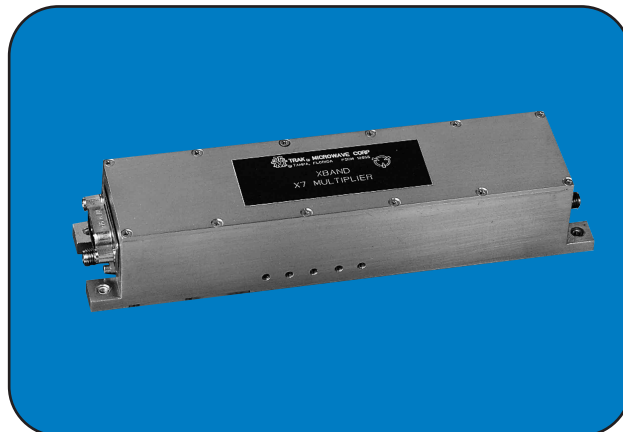
X 7 Multiplier, 10 GHz

Model: MUL059



Features:

- Combines Multiplier, Amplifier, BITE Comparators, and Voltage Regulators
- High Power Output: 1/2 watt
- Built-In-Test: RF Power
- Internal Voltage Regulation



Electrical Specifications

	Input (J1)	Output (J2)
Operating Freq.: ^{Note 1}	L-Band	X-Band
Minimum Power Level:	- 1 dBm	+ 26.5 dBm
Maximum Power Level:	+ 5 dBm	+ 28.5 dBm
VSWR: (typical)	1.3:1	1.5:1
Phase Settling: ^{Note}	To within 5° of final phase in less than 1 µsec, maximum	
Output Power Settling:	To within 90% of final output power in 100 nsec, typical	
SSB Phase Noise Enhancement:	19 dB, nominal	
Spurious:	> - 65 dBc, typical	
Harmonics:	> - 40 dBc, typical	
BITE Scheme:	Input and Output Power Monitors (TTL "1" = Failure)	
DC Power:	+ 15 ± 1 V @ 700 mA, nominal - 15 ± 1 V @ 20 mA, nominal	
Power Consumption:	10.8 W, nominal	

Environmental Specifications

Operating Temperature: - 20 to + 65 °C, baseplate
Environment: Shipboard

Mechanical Specifications

Size (excluding connectors): 6 x 1.5 x 1.5 inches
153 x 38 x 38 mm
Weight: 1.4 lbs, (635 g), nominal
RF Connectors: SMA Female
DC Connector: 9 pin D-Type

Note 1: Actual input signal is switched between two tones covering a 3% bandwidth in L Band; the switch rate is 20 kHz.

Specifications subject to change without notice.