



Low Noise Amplifier, 8 dB Gain 10-200 MHz

AM-/AMC-/AMS-117

- 1.3 dB Typical Midband Noise Figure
- + 30 dBm Typical Midband Intercept
- Ideal for Broadband IF Applications
- Fully Hermetic Package (AMS -117)

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	10-200 MHz
Gain (+25°C) @ 60 MHz	8.2 ± 0.5 dB
Frequency Response	± 0.3 dB Max
Gain Variation with Temperature	± 0.5 dB Max
Output Power (1 dB Compression)	
10-200 MHz	+ 7 dBm Min
10-100 MHz	+ 9 dBm Min
Noise Figure	
10-200 MHz	2.5 dB Max
10-100 MHz	2.0 dB Max
Reverse Transmission	- 9 dB Max
	- 11 dB Typ
VSWR	2.0:1 Max
Intermodulation Intercept Point (for two-tone output power up to -5 dBm)	
Second Order (10-200 MHz)	+ 32 dBm Min
Second Order (10-100 MHz)	+ 35 dBm Min
Third Order (10-200 MHz)	+ 20 dBm Min
Third Order (10-100 MHz)	+ 23 dBm Min
Bias Power	+ 15 VDC @ 13 mA Max (11 mA, 165 mW Typical)

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 20 dBm

Environmental

See Appendix for MIL-STD-883 screening option.

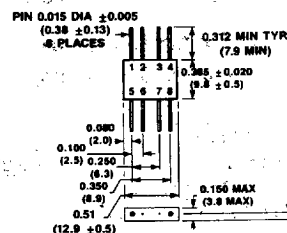
*All specifications apply when operated at +15 VDC, with 50 ohm source and load impedance. This product contains elements protected by United States Patent Number 3,891,934.

S-Parameters: For typical S-Parameter data, see appendix.

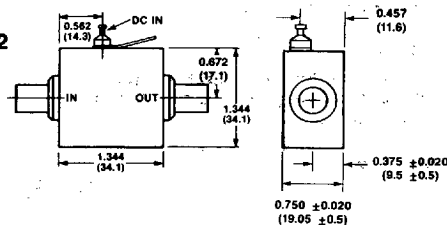
Ordering Information

Model No.	Package
AM-117 PIN	Flatpack
AMC-117 SMA	Connectorized
AMS-117 PIN	Surface Mount

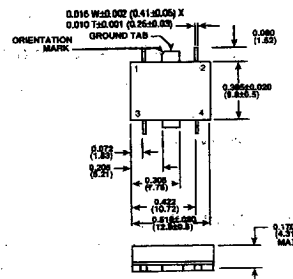
FP-2



C-32



SF-1



Dimensions in () are in mm.

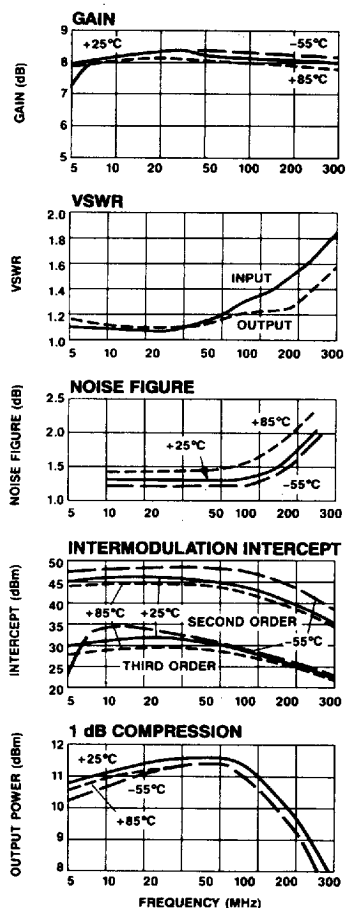
See Appendix for complete physical dimensions.

Specifications Subject to Change Without Notice.

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

Telephone: 800-366-2266

Typical Performance



Pin Configuration

AMC-117

Pin Number	Description
1	Output
2	Ground
3	Ground
4	DC Input
5	Input
6	Ground
7	Ground
8	Ground

AMS-117

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1	Output
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