



High Performance Amplifier, 10 dB Gain

5-500 MHz

AM-/AMC-123/AM-131

■ 3.5 dB Typical Midband Noise Figure

■ +42 dBm Typical Midband Intercept

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	5-500 MHz
Gain (+25°C) @ 50 MHz	10.0 ± 0.6 dB
Frequency Response	± 0.7 dB Max
Gain Variation with Temperature	± 1.0 dB Max
Output Power (1 dB Compression)	
5-500 MHz	+16 dBm Min
10-300 MHz	+19 dBm Min
Noise Figure	
5-500 MHz	7.5 dB Max
10-300 MHz	5.5 dB Max
Reverse Transmission	
	-15 dB Max
	-18 dB Typ

VSWR

5-500 MHz	2.5:1 Max
10-400 MHz	2:1 Max

Intermodulation Intercept Point (for two-tone output power up to 10 dBm)

Second Order (5-500 MHz)	+33 dBm Min
Second Order (10-300 MHz)	+40 dBm Min
Third Order (5-500 MHz)	+22 dBm Min
Third Order (10-300 MHz)	+32 dBm Min

Bias Power +15 VDC @ 75 mA Max
(62 mA, 930 mW Typical)

Operating Characteristics

Impedance 50 Ohms Nominal

Maximum Rating

RF Input +23 dBm

Environmental

See Appendix for MIL-STD-883 screening option.

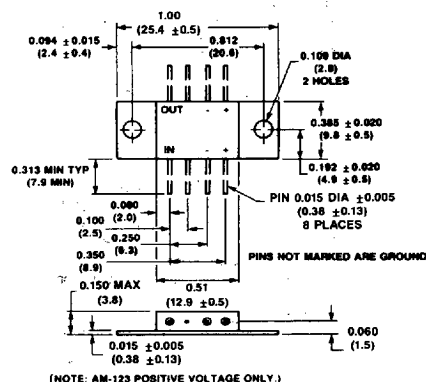
Pin Configuration (AM-123 only) IN; P5, Out; P1
DC IN; P4/P8
All other pins are ground.

*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 3,624,536.

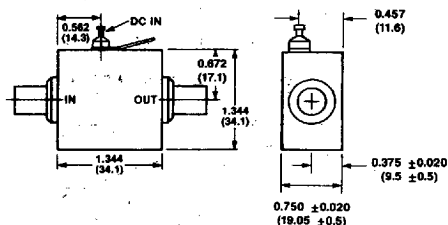
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 1.0 W must be provided in use.

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

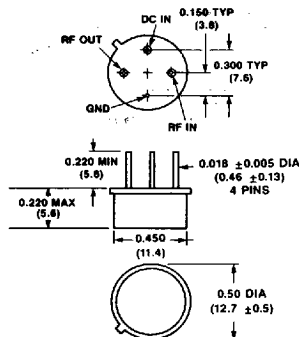
FP-7



C-6



TO-8-1



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Ordering Information

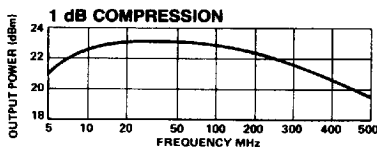
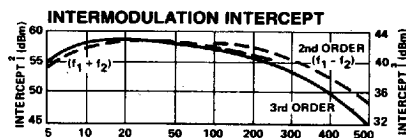
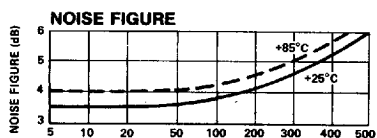
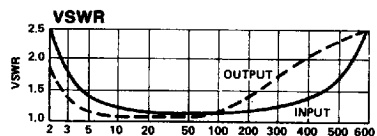
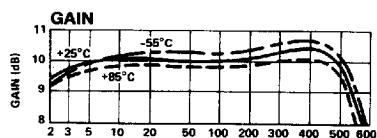
Model No.	Package
AM-123 PIN	Flatpack
AMC-123 SMA	Connectorized
AM-131 PIN	Pin

Specifications Subject to Change Without Notice.

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■ Telephone: 800-366-2266

Typical Performance



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