



Low Noise Amplifier, 12 dB Gain 200-1000 MHz

AM-/AMC-142

- 2.2 dB Typical Midband Noise Figure
- + 6 dBm Typical Midband Output Power
- + 20 dBm Typical Midband Third Order Intercept

Guaranteed Specifications*

(From - 55°C to + 85°C Case Temp)

Frequency Range	200-1000 MHz
Gain (+ 25°C) @ 600 MHz	12 ± 0.6 dB
Frequency Response	+ 0.5, - 0.8 dB Max
Gain Variation with Temperature	+ 0.8, - 0.6 dB Max
Output Power (1 dB Compression)	+ 2 dBm Min
Noise Figure	3.8 dB Max
Reverse Transmission	- 13 dB Max
	- 15 dB Typ
VSWR	3.5:1 Max
Intermodulation Intercept Point (for two-tone output power up to - 10 dBm)	
Second Order	+ 25 dBm Min
Third Order	+ 15 dBm Min
Bias Power	+ 15 VDC @ 15 mA Max (13 mA, 200 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.

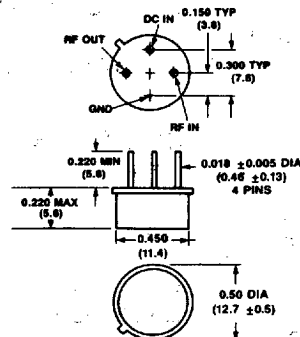
This product contains elements protected by United States Patent Number 3,624,536.

S-Parameters: For typical S-Parameter data, see page 97.

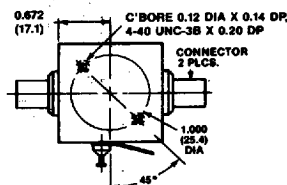
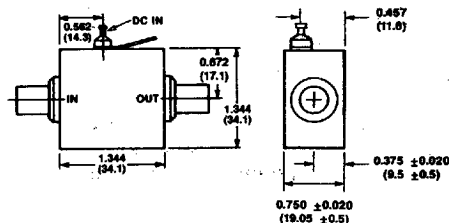
Ordering Information

Model No.	Package
AM-142 PIN	Pin
AMC-142 SMA	Connectorized

TO-8-1



C-6



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

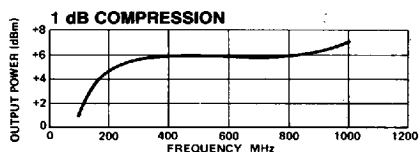
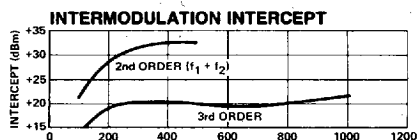
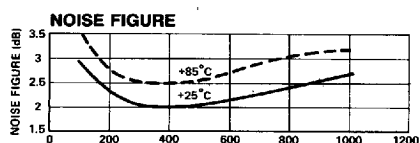
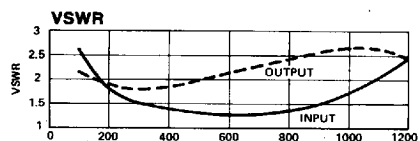
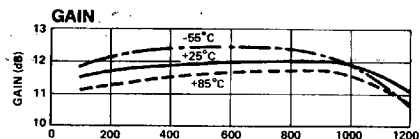
Specifications Subject to Change Without Notice.

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Typical Performance



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