



High Performance Amplifiers, 25 dB Gain 5-200 MHz

AM-/AMC-138

- +49 dBm Typical Midband Third Order Intercept
- +29 dBm Typical Midband 1 dB Compression
- 5.3 dB Typical Midband Noise Figure

Guaranteed Specifications*

(From -55°C to $+85^{\circ}\text{C}$ Case Temp)

Frequency Range	5-200 MHz
Gain (+ 25°C) @ 50 MHz	25 ± 0.8 dB
Frequency Response	± 1.0 dB Max
Gain Variation with Temperature	+ 1.0, - 1.4 dB Max
Output Power (1 dB Compression)	
5-200 MHz	+ 23 dBm Min
5-70 MHz	+ 25 dBm Min
Noise Figure	7 dB Max
Reverse Transmission	- 33 dB Max
	- 35 dB Typ
VSWR	
5-200 MHz	2.5:1 Max
5-70 MHz	1.8:1 Max

Intermodulation Intercept Point (for two-tone output power to +10 dBm)	
Second Order (5-200 MHz)	+50 dBm Min
Second Order (5-70 MHz)	+56 dBm Min
Third Order (5-200 MHz)	+35 dBm Min
Third Order (5-70 MHz)	+41 dBm Min

Bias Power	+ 24 VDC @ 250 mA Max (210 mA, 5W Typical)
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Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 10 dBm Max
Bias	26 VDC Max

Environmental

See Appendix for MIL-STD-883 screening option.

Pin Configuration IN, P6; OUT, P1; VDC, P5, P10

* All specifications apply when operated at +24 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 5 W. Must be provided in use.

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

Ordering Information

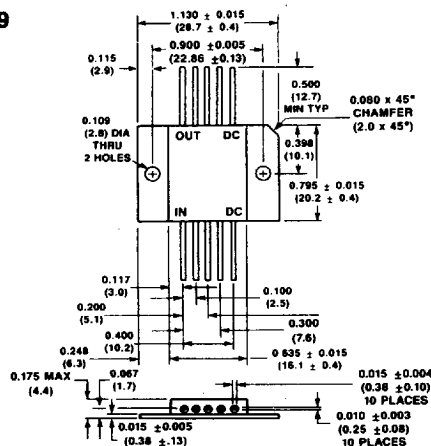
Model No.		Package
AM-138	PIN	Flatpack
AMC-138	SMA	Connectorized

Specifications Subject to Change Without Notice.

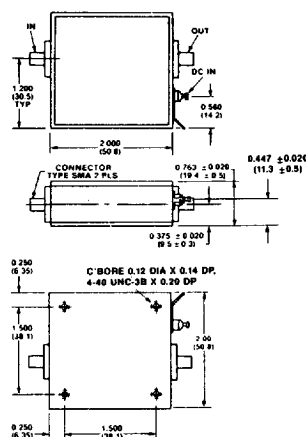
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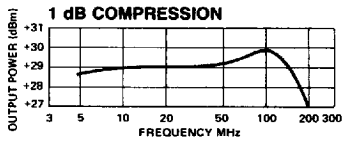
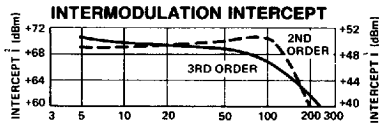
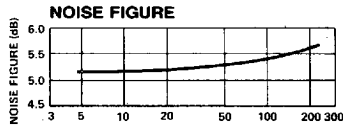
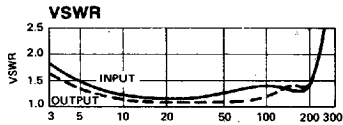
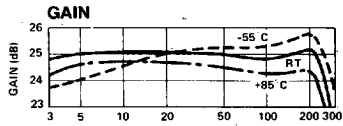
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Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Typical Performance



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