



High Performance Amplifier, 11 dB Gain 10-1000 MHz

AM-/AMC-145

- 2.5 dB Typical Midband Noise Figure
- + 19 dBm Typical Midband Output Power
- + 37 dBm Typical Midband Third Order Intercept

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	10-1000 MHz
Gain (+25°C) @ 300 MHz	10.7 ± 0.6 dB
Frequency Response	±1.0 dB
Gain Variation with Temperature	+1.0, -0.8 dB
Output Power (1 dB Compression)	
10-1000 MHz	+14 dBm Min
100-1000 MHz	+17 dBm Min
Noise Figure	
10-1000 MHz	5.5 dB Max
10-500 MHz	4.0 dB Max
Reverse Transmission	-11 dB Max
	-13.5 dB Typ
VSWR	
10-1000 MHz	3:1 Max
10-500 MHz	2:1 Max
Intermodulation Intercept Point (for two-tone output power up to +5 dBm)	
Second Order	+38 dBm Min
Third Order	+26 dBm Min
Bias Power	+15 VDC @ 60 mA Max (50 mA, 750 mW Typical)

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+26 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.

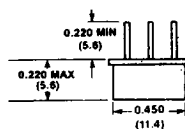
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 0.8 W. Must be provided in use.

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

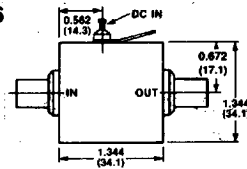
Ordering Information

Model No.	Package
AM-145 PIN	TO-8-1
AMC-145 SMA	Connectorized

TO-8-1



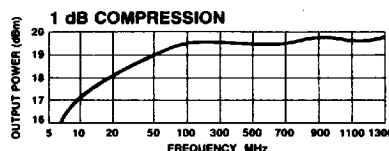
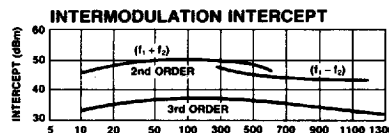
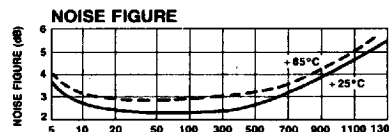
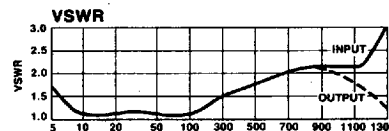
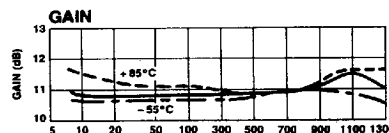
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Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Typical Performance



Specifications Subject to Change Without Notice.

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