

Cascadable Thin Film Amplifier, 12 dB Gain

5 - 500 MHz

AM-/AMC-151

V2.00

Features

- 5 dB Typical Midband Noise Figure
- +38 dBm Typical Midband Third Order Intercept
- +21 dBm Typical Midband 1 dB Compression

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	5-500 MHz
Gain (+ 25°C) @ 50 MHz	12 ± 0.5 dB
Frequency Response	± 1 dB
Gain Variation with Temperature	± 0.8 dB
Output Power (1 dB Compression)	
5-500 MHz	+ 19 dBm Min
10-500 MHz	+ 20 dBm Min
Noise Figure	
5-500 MHz	7 dB Max
Reverse Transmission	
	- 13 dB Max
	- 16 dB Typ
VSWR	2:1 Max
Intermodulation Intercept Point (for two-tone output power up to + 10 dBm)	
Second Order	+ 48 dBm Min
Third Order	+ 34 dBm Min
Bias Power	+15 VDC @ 100 mA Max (85 mA, 1275 mW Typical)

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 20 dBm
Environmental	

MIL-STD-883 screening available.

*All specifications apply when operated at +15 VDC, with 50 ohm source and load impedance.

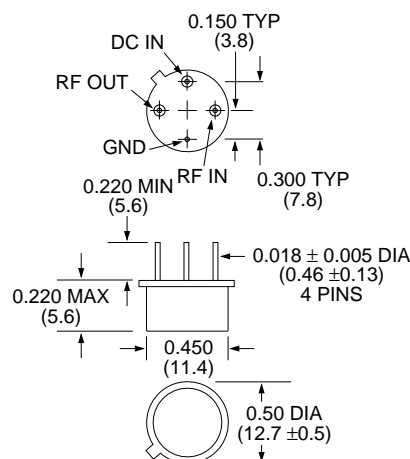
Heat Sinking: Operation at case temperature above 95°C is not recommended.
Heat sinking adequate to dissipate 1.3 W. Must be provided in use.

Ordering Information

Model No.	Package
AM-151* PIN	TO-8-1
AMC-151 SMA	Connectorized

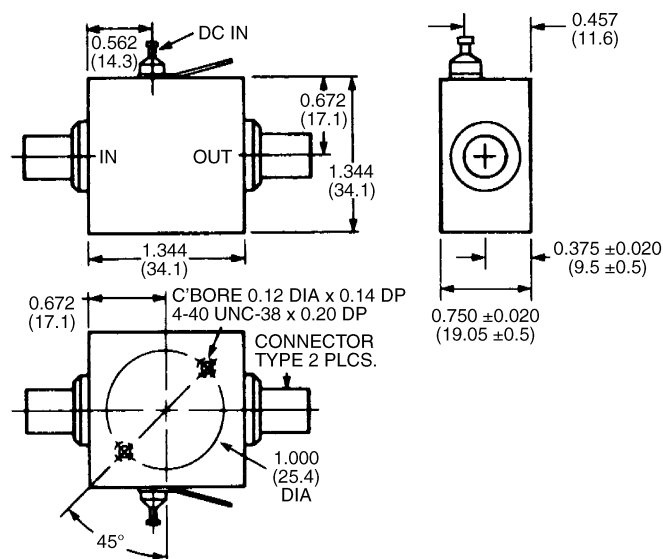
*Mounting kit part number AU00071 required for PCB applications.

TO-8-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 0.10 OUNCES 2.8 GRAMS

C-32



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 1.62 OUNCES 46 GRAMS

Specifications Subject to Change Without Notice.

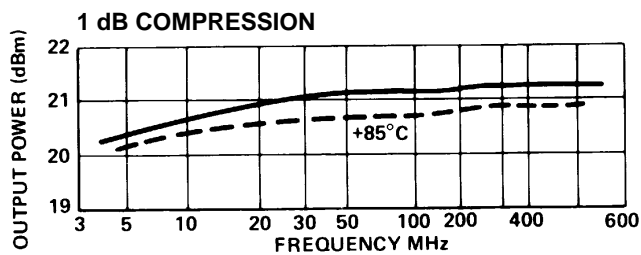
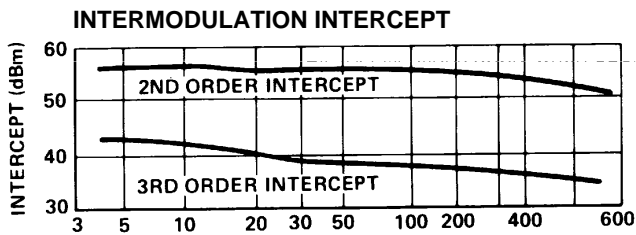
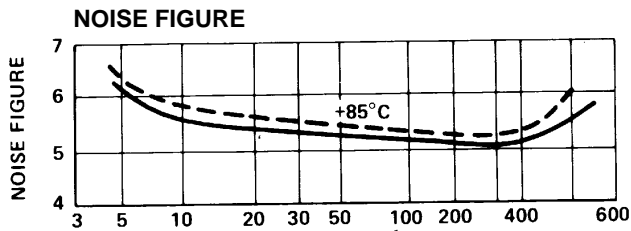
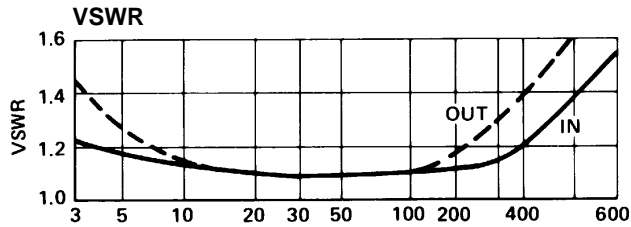
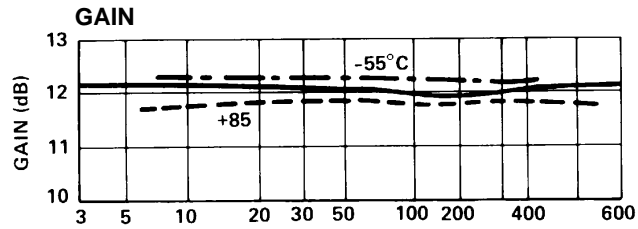
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Typical Performance



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