

Cascadable Thin Film Amplifier, 28 dB Gain

5 - 1000 MHz

AM-/AMC-182

V2.00

Features

- High Gain — 28.5 dB Typical
- Low Noise — 2.7 dB Typical

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	5-1000 MHz
Gain (+25°C) @ 300 MHz	28.2±1.0 dB
Frequency Response	± 1.2 dB Max
Gain Variation with Temperature	± 1.2 dB Max
Output Power (1 dB Compression)	+9 dBm Min
Noise Figure	4.5 dB Max
Reverse Transmission	-32 dB Max -36 dB Typ
VSWR	2.0:1 Max
Intermodulation Intercept Point (for two-tone output power up to 0 dBm)	
Second Order	+28 dBm Min
Third Order	+18 dBm Min
Bias Power	+15 VDC @50 mA Max (44 mA, 660 mW Typ)

Operating Characteristics

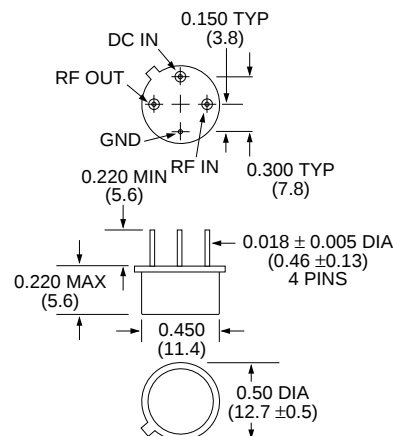
Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+13 dBm
Environmental	
MIL-STD-883 screening available.	

* All specifications apply when operated at +15 VDC, with 50 ohm source and load impedance.
This product contains elements protected by U.S. Patent Number 3,891,934.
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 0.8W. Must be provided in use.

Ordering Information

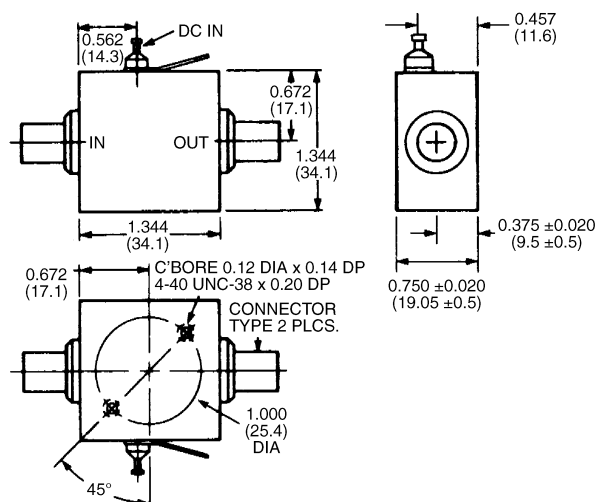
Model No.	Package
AM-182 PIN	TO-8-1
AMC-182 SMA	Connectorized

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.

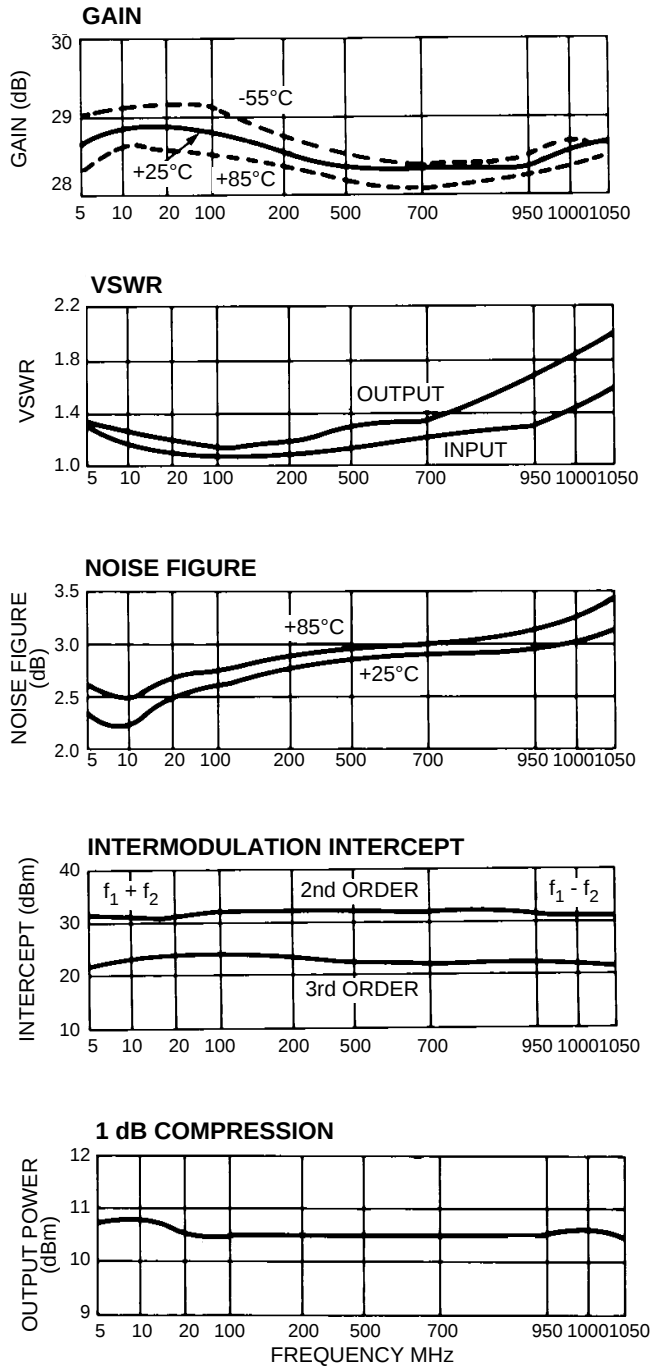
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Typical Performance



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