

# Cascadable Thin Film Amplifier, 28.5 dB Gain 10 - 1000 MHz AM-/AMC-183

V2.00

#### **Features**

- High Gain 28 dB Typical
- High Compression +15 dBm Typical

# Guaranteed Specifications\* (From - 55°C to + 85°C Case Temp)

Frequency Range	10-1000 MHz
Gain (+25°C) @ 700 MHz	28.5 ± 1.0 dB
Frequency Response	± 1.5 dB Max
Gain Variation	± 1.2 dB Max
with Temperature	
Output Power	+ 13 dBm Min
(1 dB Compression)	
Noise Figure	10-500 MHz 4.5 dB Max
	10-1000 MHz 5.0 dB Max
Reverse Transmission	-32 dB Max
	_ – 35 dB Typ
VSWR	2.0:1 Max
Intermodulation Intercept Poi	nt (for
two-tone output power up to	0 dBm)
Second Order	+ 30 dBm Min
Third Order	+ 20 dBm Min
Bias Power	+ 15 VDC @80 mA Max
	(72 mA, 1.1W Typ)

#### **Operating Characteristics**

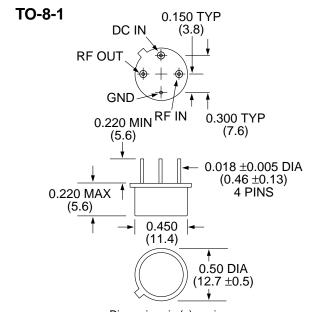
Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 13 dBm
Environmental	
MIL-STD-883 screening available.	

\*All specifications apply when operated at +15VDC, 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 1.25 W. Must be provided in use.

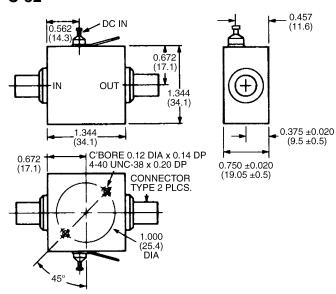
### **Ordering Information**

Model No.	Package
AM 183 PIN	TO-8-1
AMC-183 SMA	Connectorized



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

#### C-32



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

Specifications Subject to Change Without Notice.

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Tel. (800) 366-2266

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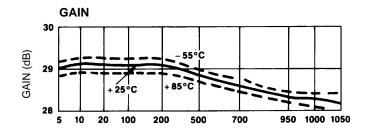
Europe: Tel. +44 (1344) 869 595

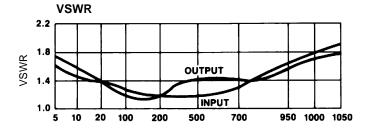
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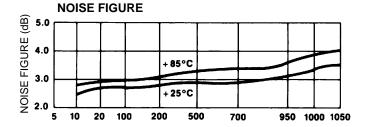
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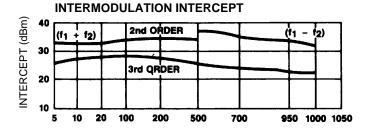
V2.00

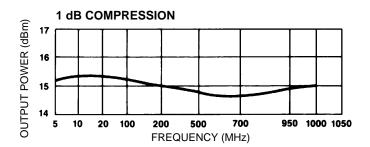
## **Typical Performance**

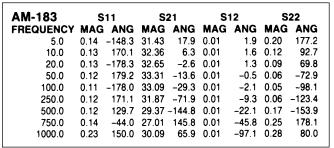












FREQUENCY IN MHz

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