



# Cascadable Thin Film Amplifier, 28.5 dB Gain 10-1000 MHz

AM-/AMC-183

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

## Guaranteed Specifications\*

(From -55°C to +85°C Case Temp)

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

## Operating Characteristics

<b>Impedance</b>	50 Ohms Nominal
<b>Maximum Rating</b>	
RF Input	+13 dBm
<b>Environmental</b>	
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 U.S. Patent Number 3,891,934.

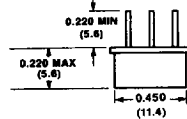
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 1.25 W. Must be provided in use.

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

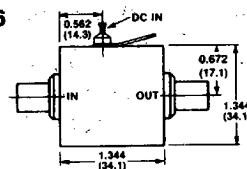
## Ordering Information

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

TO-8-1



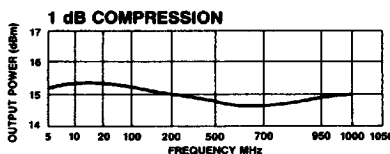
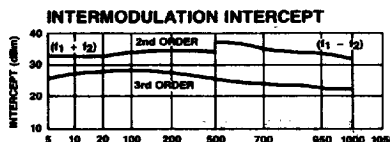
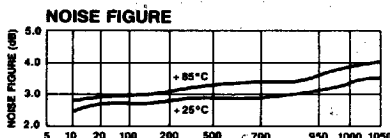
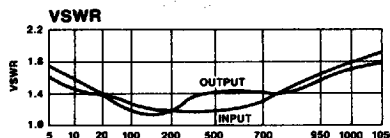
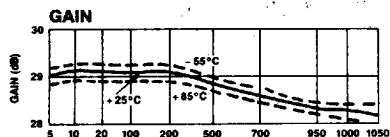
C-6



Dimensions in ( ) are in mm.

See Appendix for complete physical dimensions.

## Typical Performance



Specifications Subject to Change Without Notice.