



MODELS
AM-105/108

GENERAL PURPOSE AMPLIFIERS
5-300 MHz GAIN: 19/28 dB

5.2 dB Typical Midband Noise Figure
+ 17 dBm Typical Compression Level

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

MODEL	AM-105	AM-108
Frequency Range	5-300	5-300 MHz
Gain (+25°C) @ 50 MHz	19 ± 0.5	28.5 ± 0.5 dB
Frequency Response	±1.5	±2.5 dB Max
Gain Variation with Temperature	+1.0, -1.5	±1.5 dB Max
Output Power (1 dB Compression)	+15	+15 dBm Min
Noise Figure		
5-300 MHz	14	14 dB Max
10-100 MHz	9	9 dB Max
Reverse Transmission	-29	-42 dB Max
	-30	-44 dB Typ
VSWR		
Input (5-300 MHz)	1.5:1	2.0:1 Max
Input (10-100 MHz)		1.5:1 Max
Output (5-300 MHz)	2.5:1	2.5:1 Max
Output (10-100 MHz)	1.5:1	1.5:1 Max

Intermodulation Intercept Point (for two-tone output power to +5 dBm)

Second Order (5-300 MHz)	+28 dBm Min
Second Order (10-100 MHz)	+36 dBm Min
Third Order (5-300 MHz)	+23 dBm Min
Third Order (10-100 MHz)	+27 dBm Min

Bias Power

AM-105	-20 VDC @ 130 mA Max (105 mA, 2.1W Typical)
AM-108	-20 VDC @ 180 mA Max (105 mA, 2.6W Typical)

Operating Characteristics

Impedance 50 Ohms Nominal

Maximum Rating
RF Input +19 dBm

Package Type Connectorized (C-16)
(See page 483 for physical dimensions.)

Environmental

These units are designed to meet the environmental and screening requirements of Table 1B, page 497 of the Adams-Russell catalog.

*All specifications apply when operated at -20 VDC, with 50 ohm source and impedance.

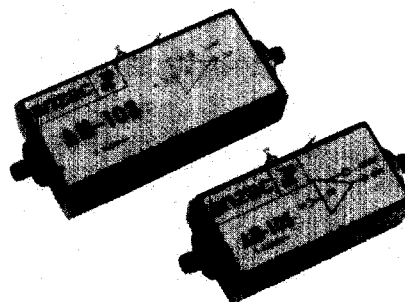
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 2.6 W. Must be provided in use.

S-Parameters: For typical S-Parameter data, see page 96.

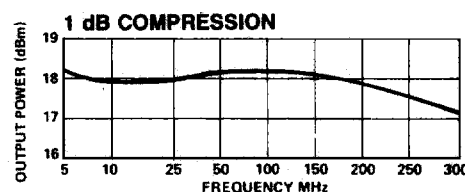
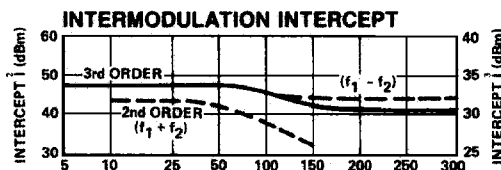
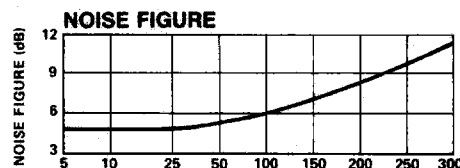
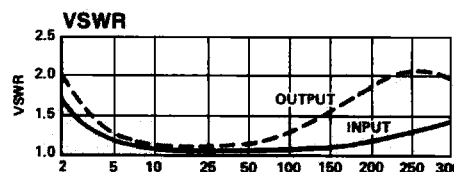
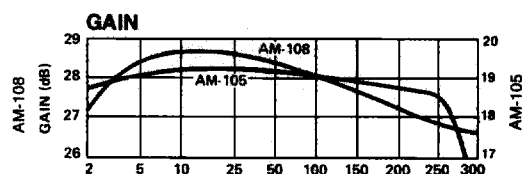
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
AM-105	8391	BNC	\$189
AM-105	8394	SMA	194
AM-108	8411	BNC	198
AM-108	8414	SMA	203

Delivery is from stock.



Typical Performance



ANZAC

Make the Connection...

80 Cambridge Street, Burlington, MA 01803 Fax (617) 273-1921

Adams Russell
COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333