



MODELS
AM-/AMC-123/131

HIGH PERFORMANCE AMPLIFIER
5-500 MHz GAIN: 10 dB

3.5 dB Typical Midband Noise Figure
+ 42 dBm Typical Midband Intercept

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	5-500 MHz
Gain (+25°C) @ 50 MHz	10.0 ± 0.6 dB
Frequency Response	± 0.7 dB Max
Gain Variation with Temperature	± 1.0 dB Max
Output Power (1 dB Compression)	
5-500 MHz	+ 16 dBm Min
10-300 MHz	+ 19 dBm Min
Noise Figure	
5-500 MHz	7.5 dB Max
10-300 MHz	5.5 dB Max
Reverse Transmission	
	- 15 dB Max
	- 18 dB Typ
VSWR	
5-500 MHz	2.5:1 Max
10-400 MHz	2:1 Max
Intermodulation Intercept Point (for two-tone output power up to 10 dBm)	
Second Order (5-500 MHz)	+ 33 dBm Min
Second Order (10-300 MHz)	+ 40 dBm Min
Third Order (5-500 MHz)	+ 22 dBm Min
Third Order (10-300 MHz)	+ 32 dBm Min
Bias Power	+ 15 VDC @ 75 mA Max (62 mA, 930 mW Typical)

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 23 dBm
Package Type	AM-123 Flatpack (FP-7) AMC-123 Connectorized (C-6) AM-131 Pin (TO-8-1)

(See pages 475, 481 and 472 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.

Pin Configuration (AM-123 only) IN; P5, Out; P1 DC IN; P4/P8 All other pins are ground.

*All specifications apply when operated at + 15 VDC, with 50 ohm source and load impedance. This product contains elements protected by United States Patent Number 3,624,536.

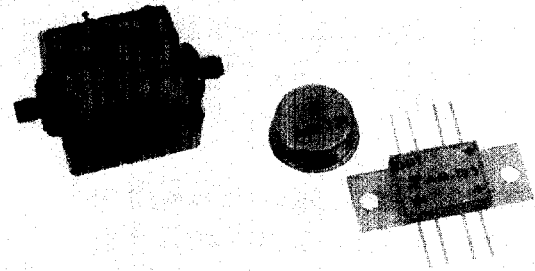
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 1.0 W must be provided in use.

S-Parameters: For typical S-Parameter data, see page 96 and 97.

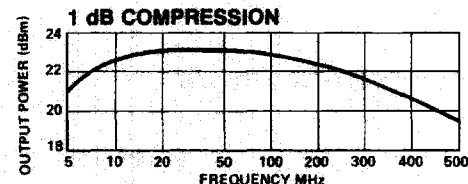
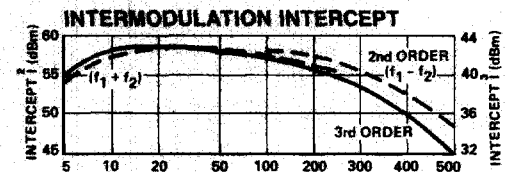
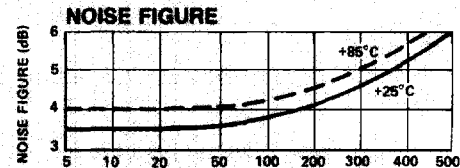
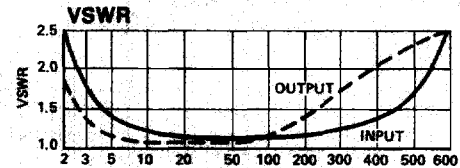
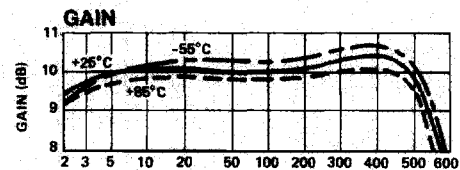
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
AM-123	8669	Pin	\$ 94
AMC-123	8664	SMA	191
AM-131	8859	Pin	100

Delivery is from stock.



Typical Performance



ANZAC

Make the Connection...

Adams Russell

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COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333