



**MODELS**  
**AM-/AMC-147**

**HIGH PERFORMANCE AMPLIFIER**  
**5-500 MHz      GAIN: 17 dB**

2 dB Typical Midband Noise Figure  
+ 20 dBm Typical Midband Output Power  
+ 38 dBm Typical Midband Third Order Intercept

**Guaranteed Specifications\***

(From -55°C to +85°C Case Temp)

<b>Frequency Range</b>	5 - 500 MHz
<b>Gain (+25°C) @ 50 MHz</b>	17 ± 0.6 dB
<b>Frequency Response</b>	± 1.0 dB
<b>Gain Variation with Temperature</b>	-1.2, +5dB
<b>Output Power (1 dB Compression)</b>	+ 19 dBm Min
<b>Noise Figure</b>	
5-500 MHz	4.5 dB Max
5-300 MHz	3.5 dB Max
<b>Reverse Transmission</b>	
	- 16 dB Max
	- 20 dB Typ
<b>VSWR</b>	2.0:1 Max
<b>Intermodulation Intercept Point (for two-tone output power up to + 5 dBm)</b>	
Second Order	+ 38 dBm Min
Third Order	+ 28 dBm Min
<b>Bias Power</b>	+ 15 VDC @ 60 mA Max (50 mA, 750 mW Typical)

**Operating Characteristics**

<b>Impedance</b>	50 Ohms Nominal
<b>Maximum Rating</b>	
RF Input	+ 10 dBm
<b>Package Type</b>	Pin (TO-8-1) Connectorized (C-6)

(See pages 472 and 481 for physical dimensions.)

**Environmental**

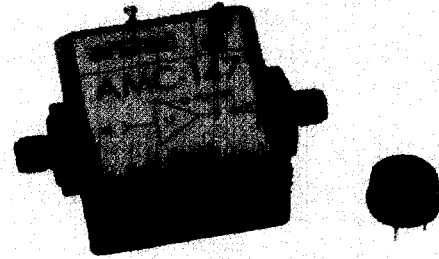
These units are designed to meet the environmental and screening requirements of Table 1B, page 497 of the Adams-Russell catalog.

\*All specifications apply when operated at +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 0.75 W. Must be provided in use. S-Parameters: For typical S-Parameter data, see page 97.

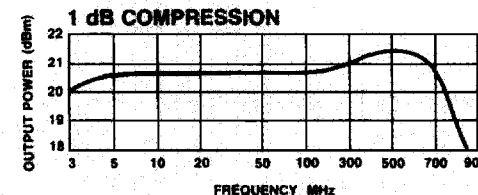
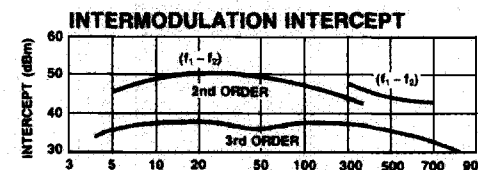
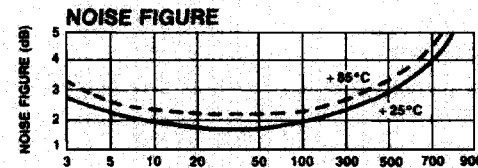
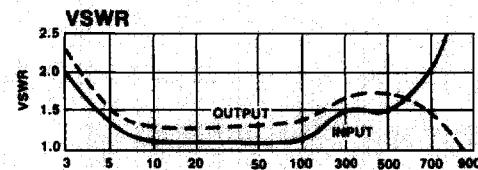
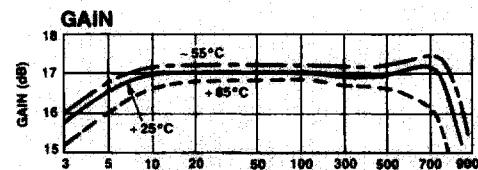
**Ordering Information**

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
AM-147	8739	Pin	\$ 94
AMC-147	8734	SMA	191

Delivery is from stock.



**Typical Performance**



**ANZAC**

**Make the Connection...**

**Adams Russell**  
COMPONENTS GROUP

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

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333