



MODELS
AM-/AMC-171

CASCADABLE THIN FILM
AMPLIFIER 5-500 MHz **GAIN: 15 dB**

2.3 dB Typical Midband Noise Figure
1.2:1 Typical Midband Output VSWR

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

Frequency Range	5-500 MHz
Gain (+25°C) @ 250 MHz	15.2 ± 0.7 dB
Frequency Response	± 1.0 dB
Gain Variation with Temperature	± 1.0 dB
Output Power (1 dB Compression)	-3 dBm Min
Noise Figure	3.0 dB Max
Reverse Transmission	-17 dB Max -20 dB Typ

VSWR	
Input	2.0:1 Max
Output	1.5:1 Max

Intermodulation Intercept Point (for two-tone output power up to -10 dBm)	
Second Order	+11.5 dBm Min
Third Order	+8.5 dBm Min

Bias Power	+15 VDC @ 12.5 mA Max (11 mA, 180 mW Typical)
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Operating Characteristics

Impedance	50 Ohms Nominal
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Maximum Rating	
RF Input	+10 dBm

Package Type	Pin (TO-8-1) Connectorized (C-6)
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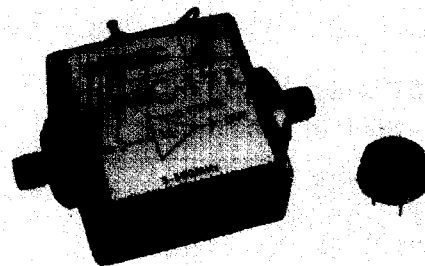
(See pages 472 and 481 for physical dimensions.)

Environmental

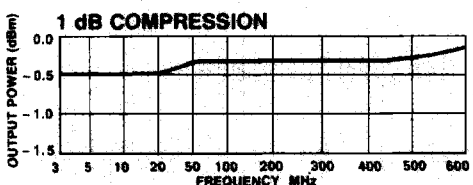
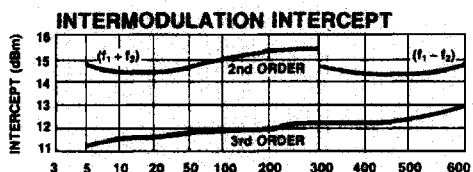
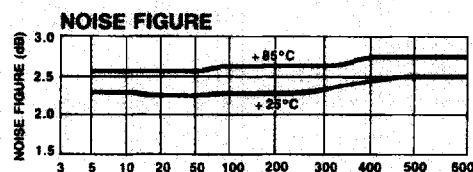
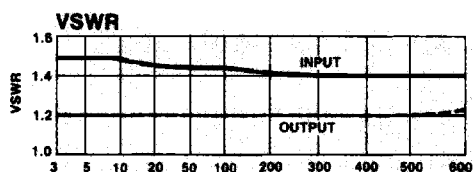
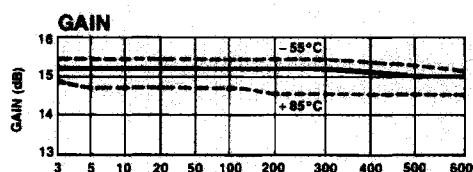
These units are designed to meet the environmental and screening requirements of Table 1B, page 497 of the Adams-Russell catalog.

*All specifications apply when operated at +15 VDC, with 50 ohm source and load impedance.

S-Parameters: For typical S-Parameter data, see page 98.



Typical Performance



Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
AM-171	6249	Pin	\$ 76
AMC-171	6244	SMA	173

Delivery is from stock.

ANZAC

Make the Connection...

Adams Russell
COMPONENTS GROUP

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For Ordering Information, Call (617) 273-3333