



MODEL AM-110

GENERAL PURPOSE AMPLIFIER

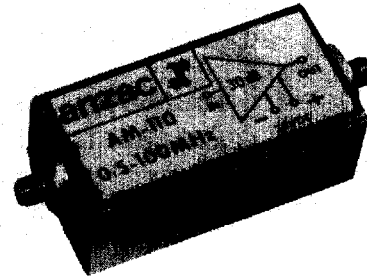
0.5-100 MHz GAIN: 30 dB

4.5 dB Typical Midband Noise Figure
+ 23 dBm Typical Compression Level

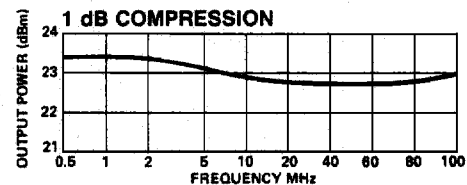
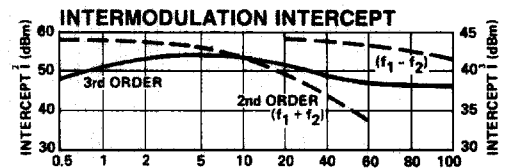
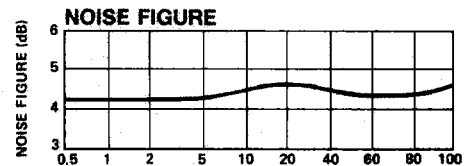
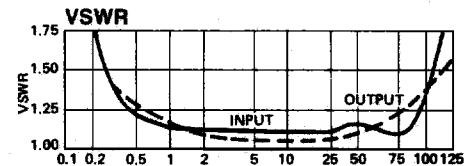
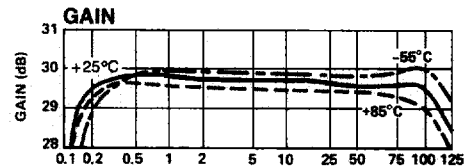
Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	0.5-100 MHz
Gain (+25°C) @ 10 MHz	29.7 ± 0.5 dB
Frequency Response	
0.5-100 MHz	± 0.5 dB Max
1-60 MHz	± 0.3 dB Max
Gain Variation with Temperature	
0.5-100 MHz	± 0.8 dB Max
1-60 MHz	± 0.4 dB Max
Output Power (1 dB Compression)	+ 21 dBm Min
Noise Figure	5.5 dB Max
Reverse Transmission	-35 dB Max -37 dB Typ
VSWR	
0.5-100 MHz	1.7:1 Max
1-60 MHz	1.4:1 Max
Intermodulation Intercept Point (for two-tone output power up to +10 dBm)	
Second Order (0.5-100 MHz)	+ 33 dBm Min
Second Order (1-60 MHz)	+ 42 dBm Min
Third Order	+ 33 dBm Min
Bias Power	20 VDC @ 130 mA Max (110 mA, 2.2W Typical)



Typical Performance



Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+ 18 dBm Max
Package Type	Connectorized (C-23) (See page 484 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 load impedance.

Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 2.2 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-110	9651	BNC	\$189
AM-110	9654	SMA	194

Delivery is from stock.

ANZAC

Make the Connection...

Adams Russell

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

COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333