

**NEW**

**MODELS AM-281/282**      **GaAs LOW NOISE AMPLIFIER**  
 1.1-1.7 GHz      GAIN: 16 dB

Low Noise Amplifier, 1.5 dB Typical  
 Monolithic Amplifier Chip In  
 Miniature Ceramic Package

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

<b>Frequency Range</b>	1.1-1.7 GHz				
<b>Minimum Gain (@25°C)</b>	1.1-1.3 GHz	18 dB			
	1.3-1.5 GHz	16 dB			
	1.5-1.7 GHz	14 dB			
<b>Gain Variation with Temp.</b>	± 3 db Max				
<b>VSWR</b>					
INPUT	1.1-1.5 GHz	2.0:1			
	1.5-1.7 GHz	2.3:1			
OUTPUT	1.1-1.7 GHz	2.0:1			
<b>Noise Figure @25°C</b>	<b>@85°C</b>	<b>@-54°C</b>			
	1.1-1.5 GHz	1.9	2.3	1.7	dB Max
	1.5-1.7 GHz	2.2	2.7	2.0	dB Max
<b>Output Power for 1 dB Compression</b>	10.0 dBm Min				
	1.1-1.7 GHz				

**Operating Characteristics**

<b>Impedance</b>	50 Ohms Nominal
<b>Intermodulation Intercept Point</b> (for two-tone output power up to 0 dBm)	
Second Order	+ 35 dBm Typ
Third Order	+ 22 dBm Typ
<b>Bias Power</b>	VD1 = 2.0-5.0 Vdc @ ID1 = 20-50 mA VD2 = 2.0-5.0 Vdc @ ID2 = 20-50 mA
(Set VG1 and VG2 in the range of 0Vdc to -3Vdc to achieve desired ID1 and ID2 bias setting).	
<b>Package Type</b>	AM-281: Ceramic (CR-3); AM-282: Ceramic (CR-2)
(See pages 490 and 489 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.

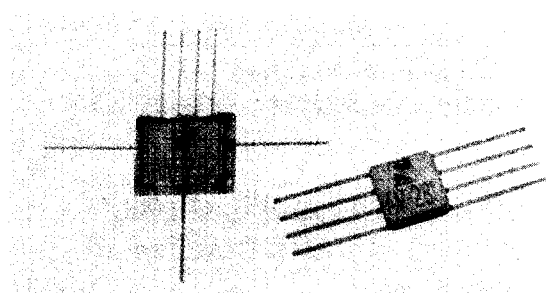
\*All specifications apply when operated at VD1 = VD2 = 3 Vdc and VG1, VG2 set so ID1 = ID2 = 30 mA.

S-Parameters: For typical S-Parameter data, see page 99

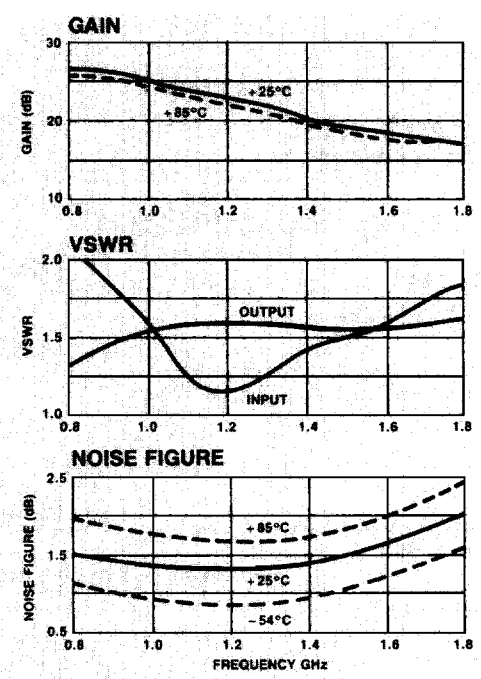
**Ordering Information**

Model No.	Part No.	Connector	Unit Price (5-9 Units)
AM-281	6877	Pin	\$113
AM-282	9063	Pin	\$ 95

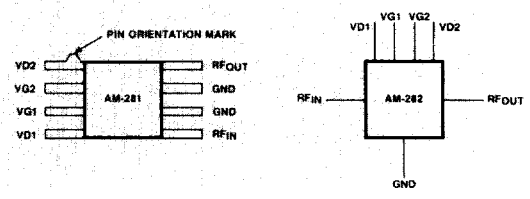
Delivery is from stock.



**Typical Performance**



**Pin Configuration**



**Schematic**

