

DESCRIPTION

AMCOM's AM001822LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 1 KHz to 1800 MHz with Noise Figure of 2.2 dB and small signal gain of 30 dB @ 1000 MHz. The module uses SMA connectors for input and output. This amplifier module is compact at 1.25" (L) x 1.25" (W) x 0.563" (H).



FEATURES

- Frequency Range: 1KHz-1800MHz
- Gain: 30dB @ 1000MHz
- P1dB: +8dBm
- IP3: +20dBm
- Noise Figure: 2.2dB
- Reverse Voltage Protected
- SMA Connector

APPLICATIONS

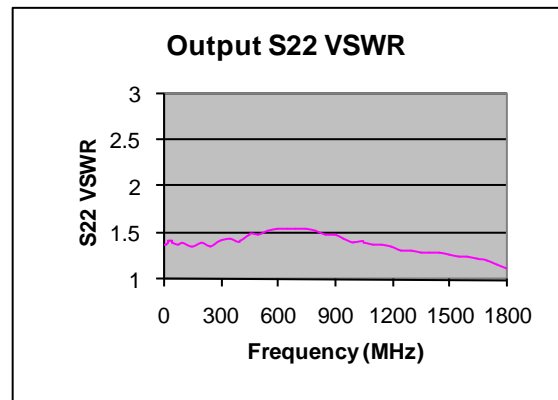
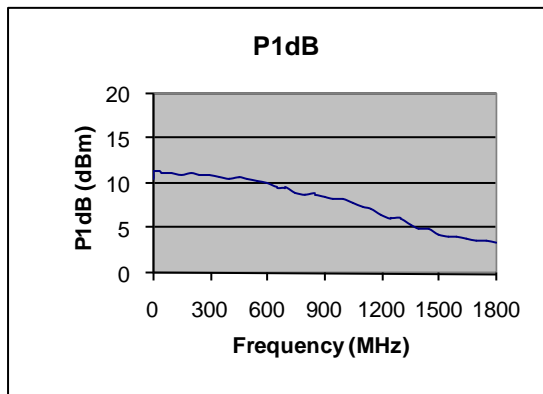
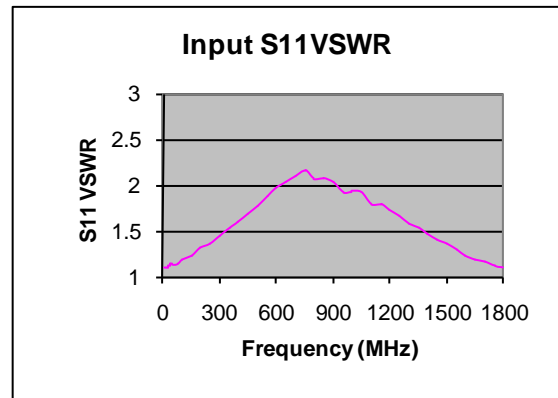
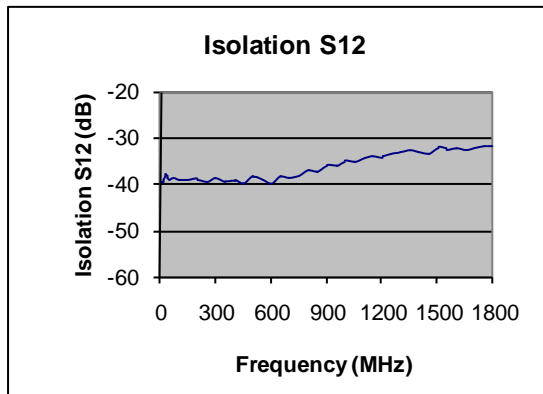
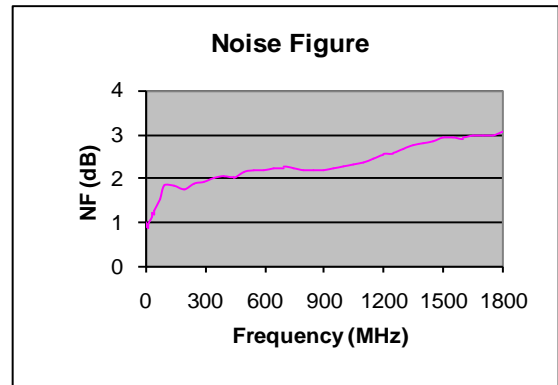
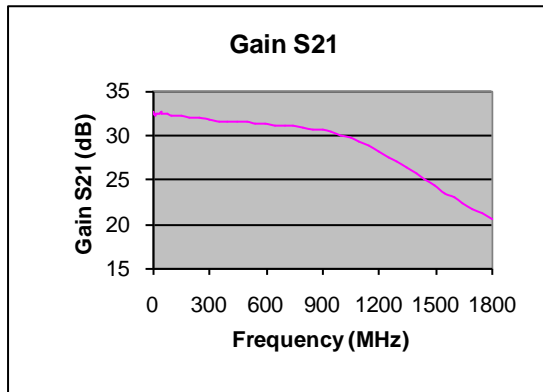
- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Performance Measured @ 1000MHz

Electrical Specifications @ +25°C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{cc} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.001		1800
Gain				
f = 1KHz	dB		30.0	
f = 50KHz	dB		31.0	
f = 500KHz	dB		32.5	
f = 10MHz	dB		32.4	
f = 100MHz	dB		32.2	
f = 1000MHz	dB		30.0	
f = 1500MHz	dB		24.0	
f = 1800MHz	dB		20.5	
P _{1dB}	dBm		+8	
IP3	dBm		+20	
Noise Figure	dB		2.2	
Reverse Isolation	dB		-35	
VSWR				
Input VSWR			1.9:1	
Output VSWR			1.4:1	
DC Power Supply	V	11	12	24
Supply Current	mA		40	

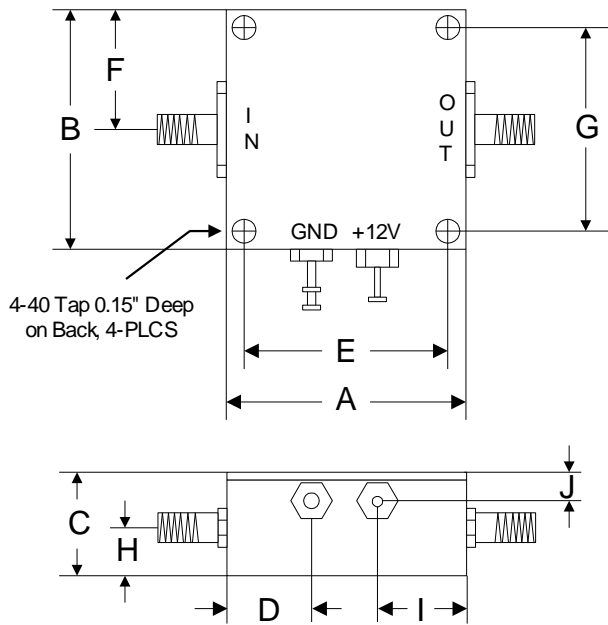
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76