



DESCRIPTION

AMCOM's AM002032LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 10 KHz to 2000 MHz with Noise Figure of 3.2 dB and small signal gain of 26 dB. The module operates using a 12V/45mA supply and 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: 10KHz - 2000MHz
- Gain: 26dB
- P1dB: +10dBm
- IP3: +23dBm
- Noise Figure: 3.2dB
- DC Power: 12V/45mA
- SMA Connector

APPLICATIONS

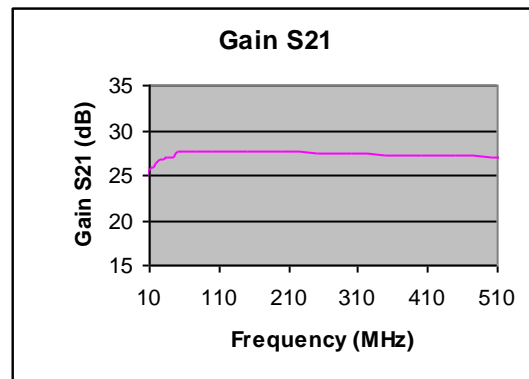
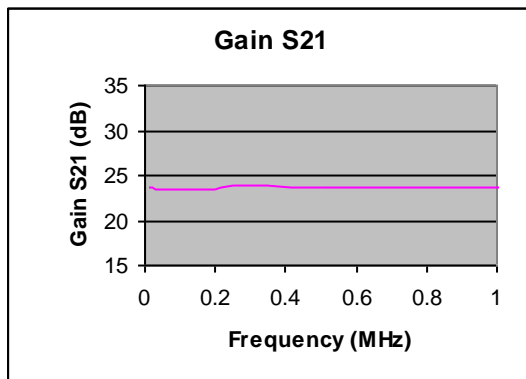
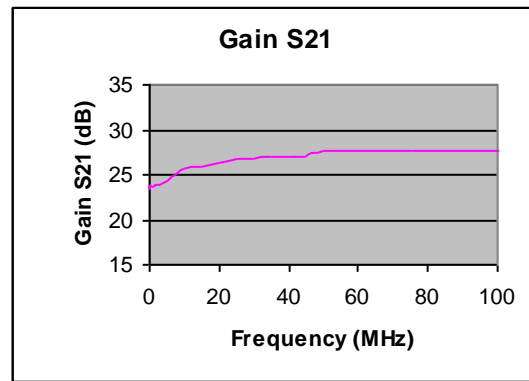
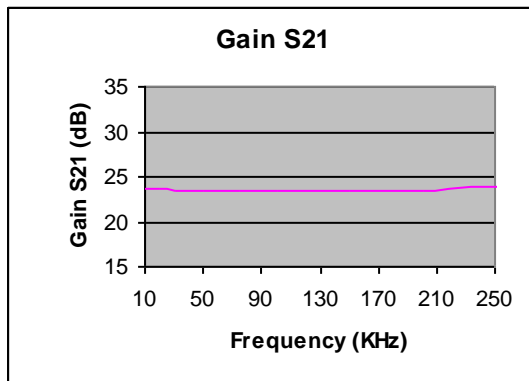
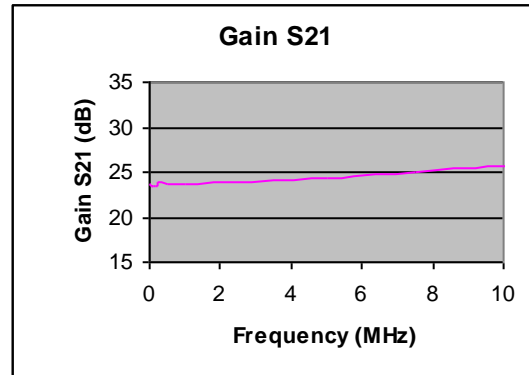
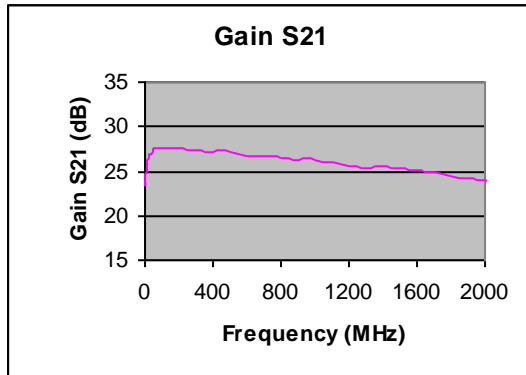
- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Performance measured @ 1000MHz

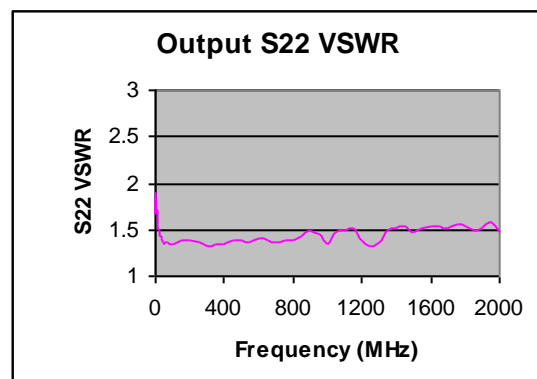
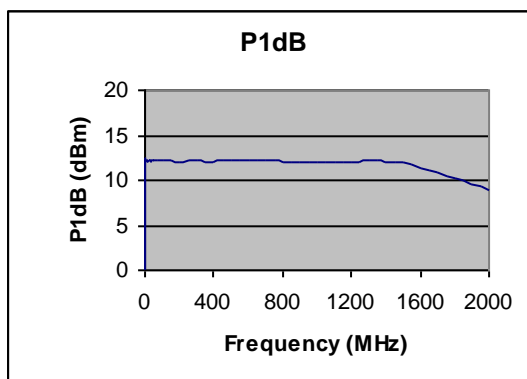
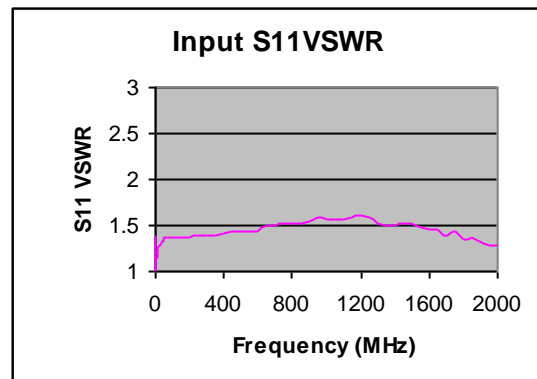
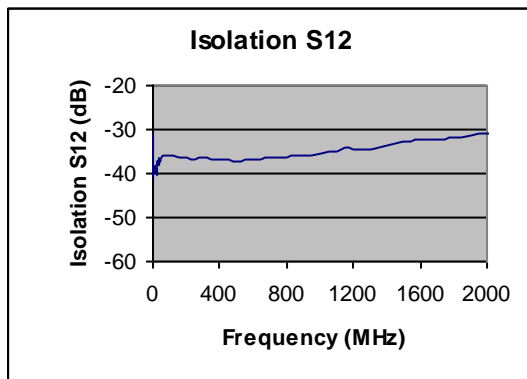
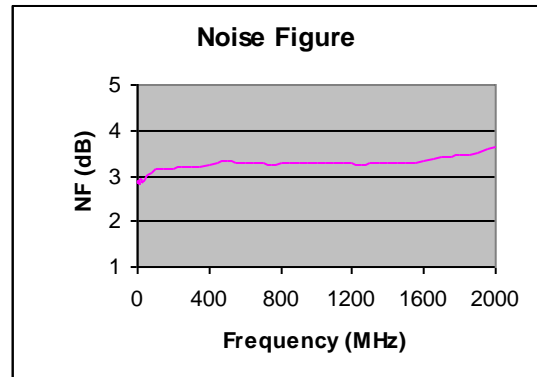
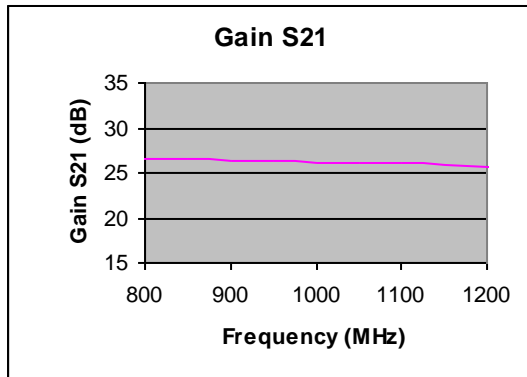
Electrical Specifications @+25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		2000
Gain	f = 10KHz		23.7	
	f = 1000MHz		26.0	
	f = 2000MHz		24.0	
P _{1dB}	f = 10KHz		+12	
	f = 1000MHz		+12	
	f = 2000MHz		+9	
IP3	f= 1000MHz		+23	
Reserve Isolation	f=1000MHz		-35	
Noise Figure	f = 10KHz		2.8	
	f = 1000MHz		3.2	
	f = 2000MHz		4.0	
VSWR	Input VSWR		1.5:1	
	Output VSWR		1.4:1	
DC Power Supply	V	10	12	18
Supply Current	mA		45	

Typical Performance @ +25 °C



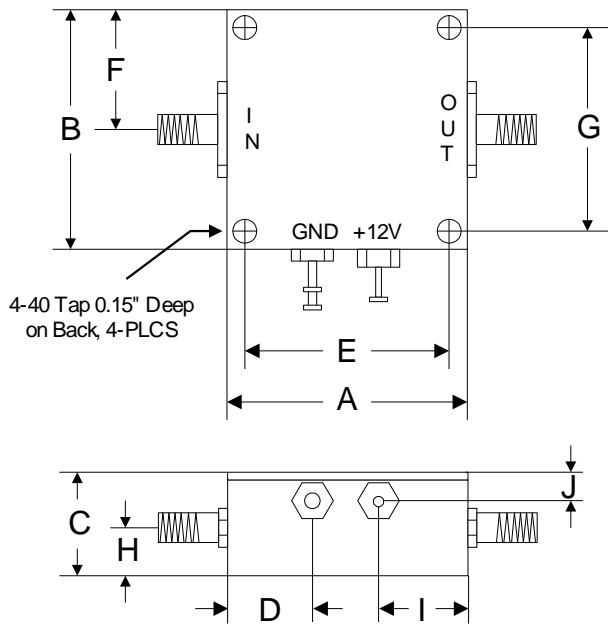
Typical Performance @ +25 °C



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