

DESCRIPTION

AMCOM's AM000320LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 5 KHz to 300 MHz with Noise Figure of 2.0 dB and small signal gain of 30 dB. The module operates using a +12V/40mA 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 Range: 5KHz-300MHz
- Gain: 30dB
- P_{1dB}: +10dBm
- IP3: +23dBm
- Noise Figure: 2dB
- DC Power: 12V/40mA
- Internal Voltage Regulated

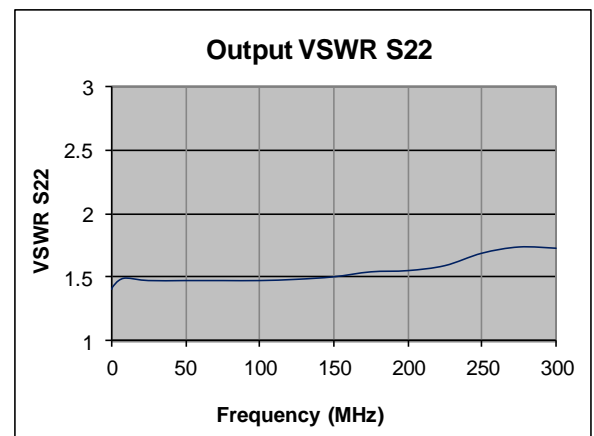
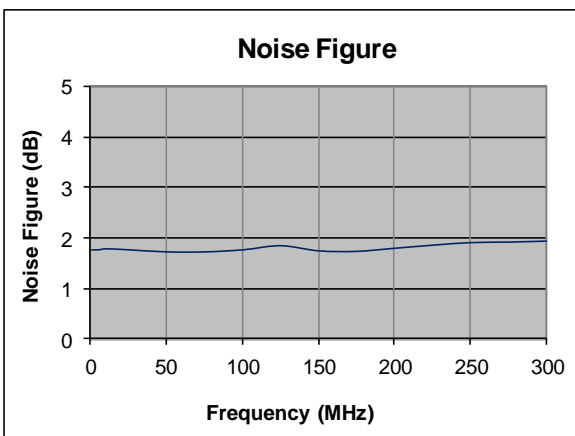
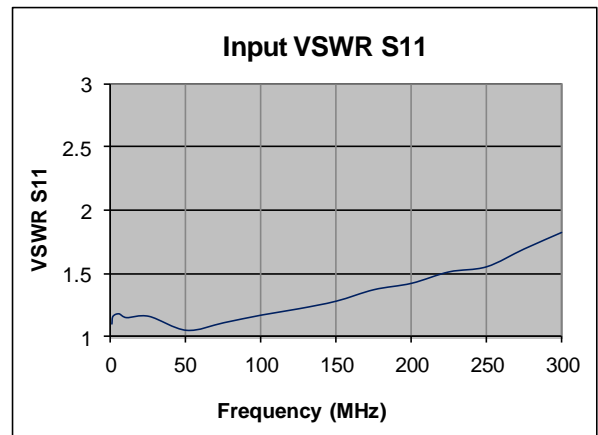
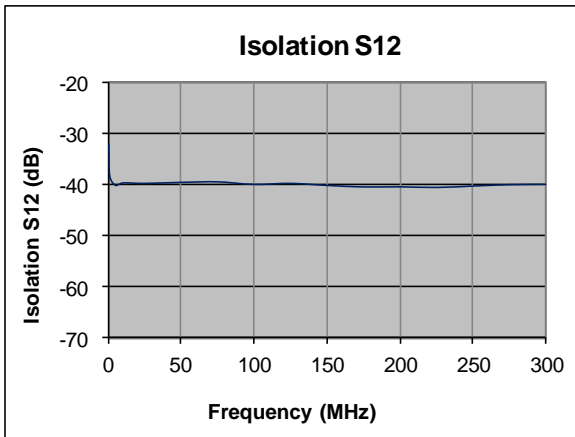
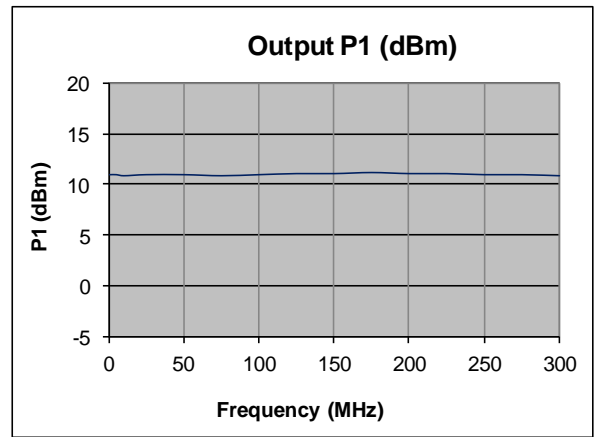
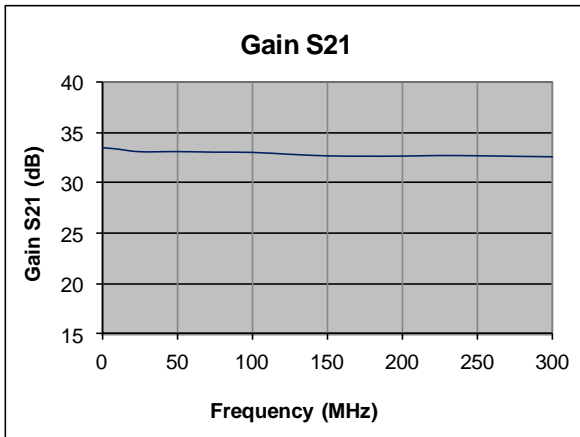
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{supply} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.005		300
Gain S21				
f = 5KHz	dB		32.5	
f = 1MHz	dB		33.5	
f = 50MHz	dB		33.0	
f = 150MHz	dB		32.5	
f = 300MHz	dB		32.5	
Gain Flatness	dB		± 0.5	
P _{1dB}	dBm		+10	
IP3	dBm		+23	
Noise Figure	dB		2.0	
Reverse Isolation S12	dB		-40	
VSWR				
Input VSWR S11			1.3:1	
Output VSWR S22			1.5:1	
DC Power Supply	V		12	15
Supply Current	mA		40	

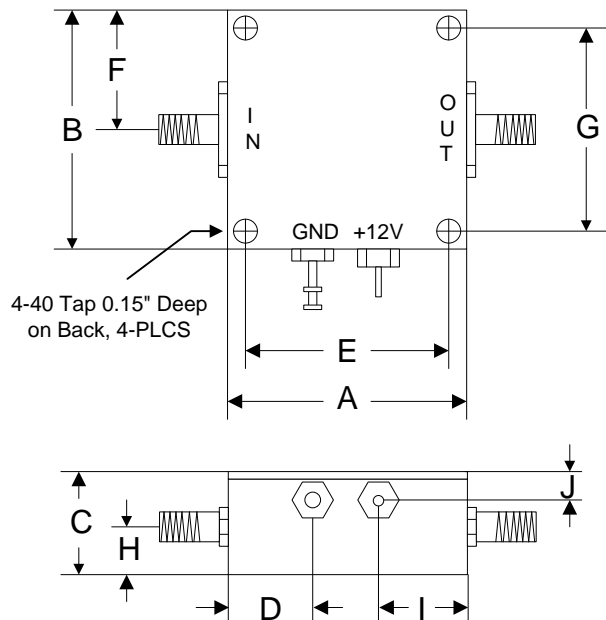
Typical Performance @ +25 °C



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

WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C