

DESCRIPTION

AMCOM's AM003013LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 40 MHz to 3000 MHz with Noise Figure of 1.3 dB and small signal gain of 17.5 dB. The module operates using a 5V/60mA 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: 40-3000MHz
- Gain: 17.5dB
- P1dB: +19dBm
- IP3: +32dBm
- Noise Figure: 1.3dB
- DC Power: 5V/60mA
- SMA Connector

Performance measured @ 1000MHz

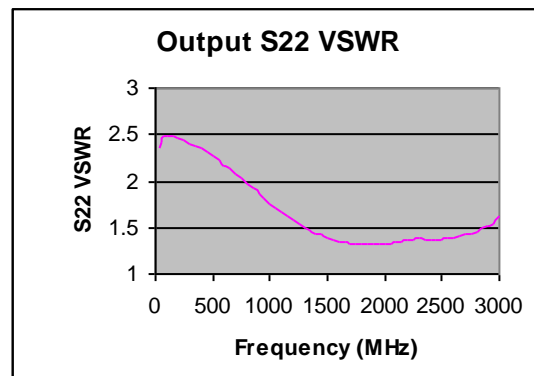
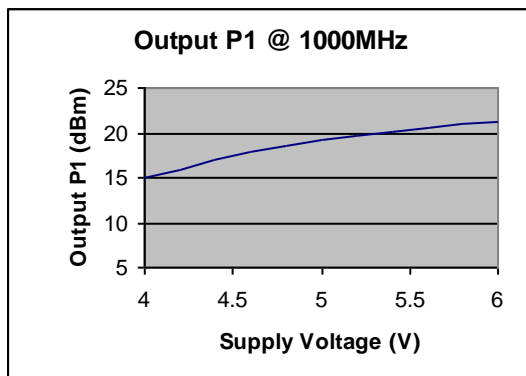
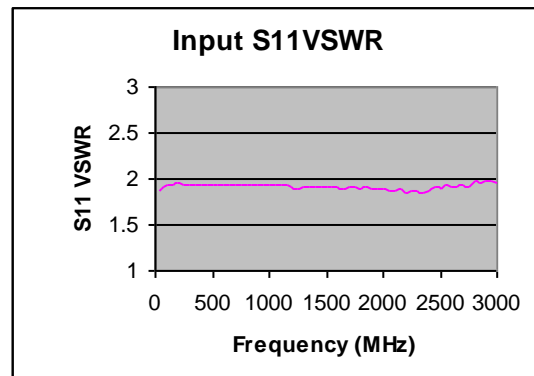
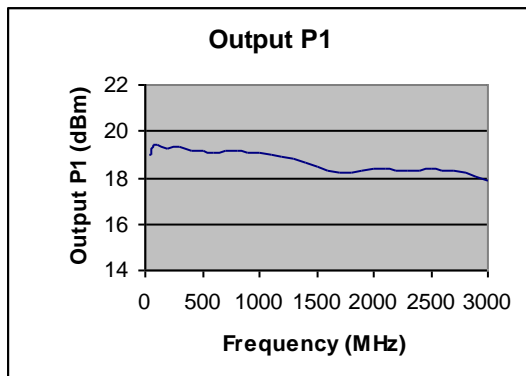
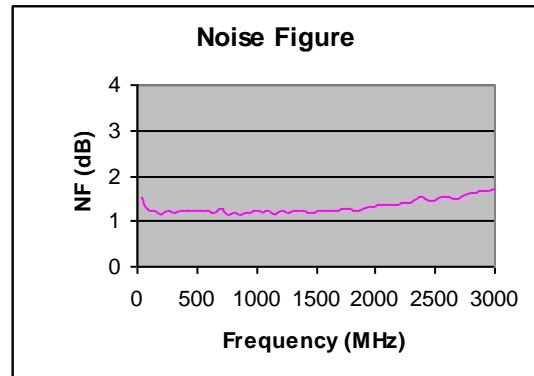
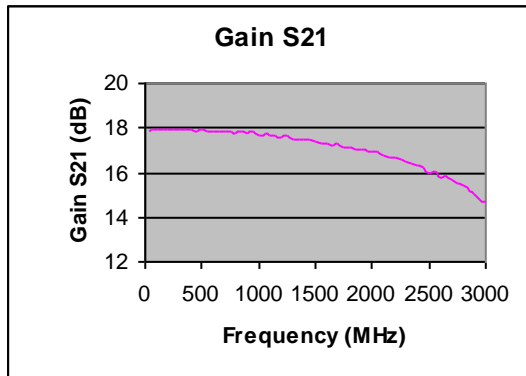
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	40		3000
Gain				
f = 40MHz	dB		17.8	
f = 1000MHz	dB		17.5	
f = 2000MHz	dB		16.9	
f = 3000MHz	dB		14.6	
P _{1dB}	dBm		+19	
IP3	dBm		+32	
Noise Figure	dB		1.3	
Reverse Isolation	dB		-20	
VSWR				
Input VSWR			2.0:1	
Output VSWR			2.0:1	
DC Power Supply	V	4.0	5.0	6.0
Supply Current	mA		60	

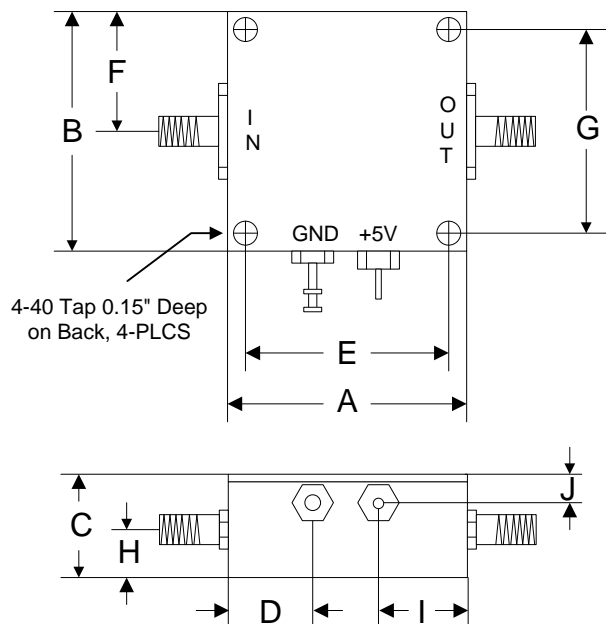
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+7V
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