



### DESCRIPTION

AMCOM's AM001520LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 10 KHz to 1450 MHz with Noise Figure of 2.0 dB and small signal gain of 30 dB. The module operates using a 12V/35mA 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 - 1450MHz
- Gain: 30dB
- P1dB: +9dBm
- IP3: +21dBm
- Noise Figure: 2.0dB
- DC Power: 12V/35mA
- SMA Connector

### APPLICATIONS

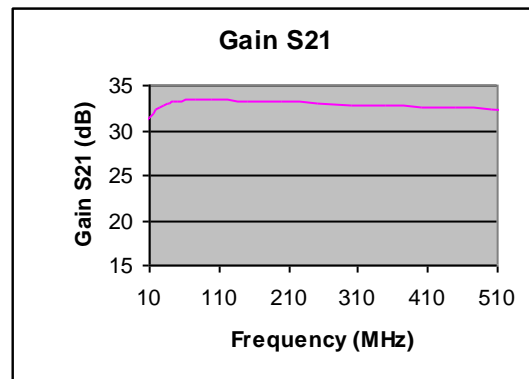
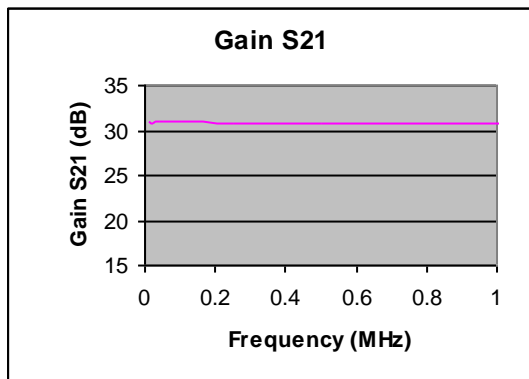
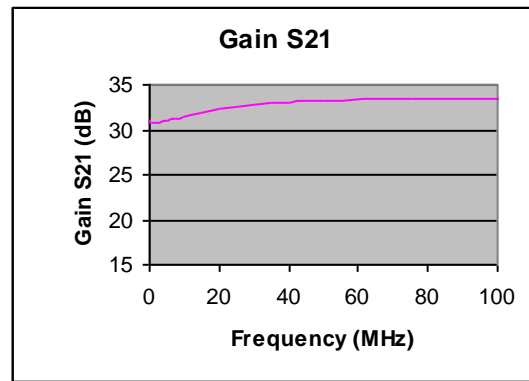
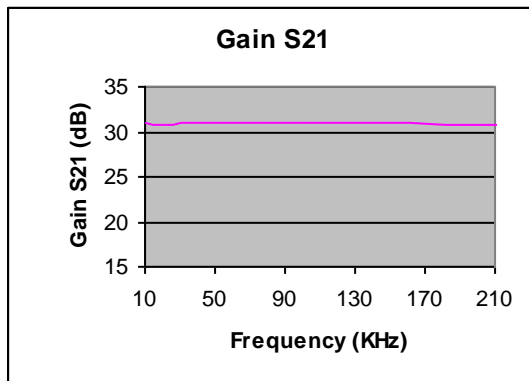
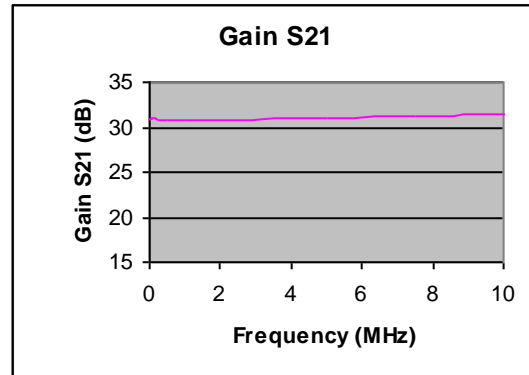
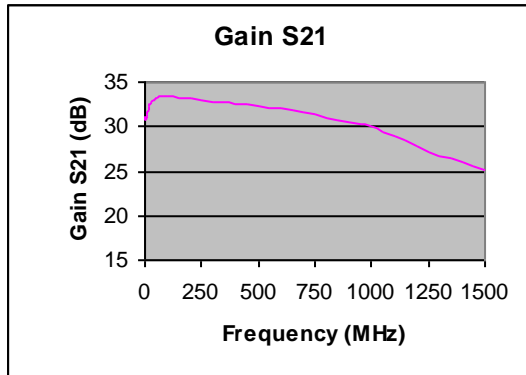
- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Performance measured @ 1000MHz

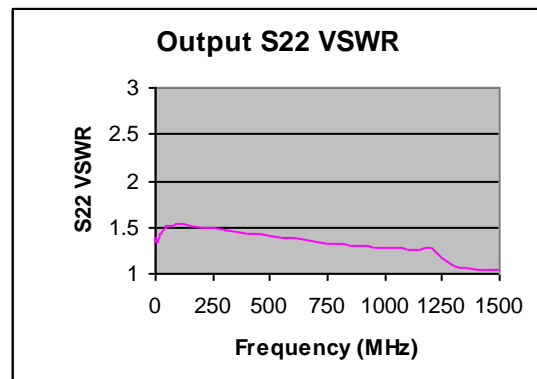
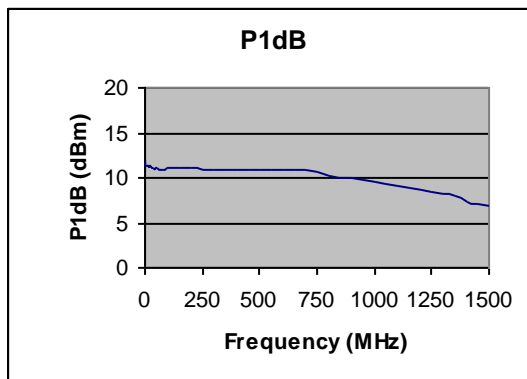
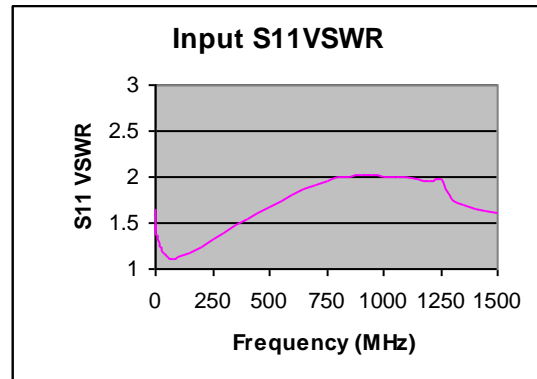
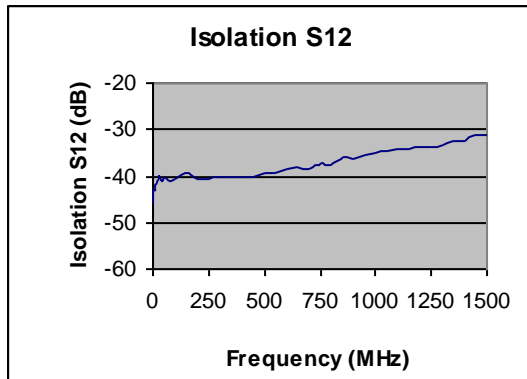
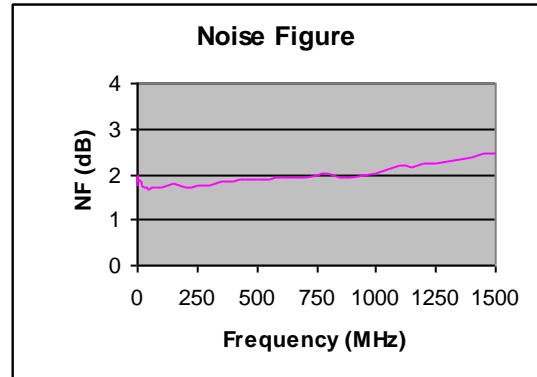
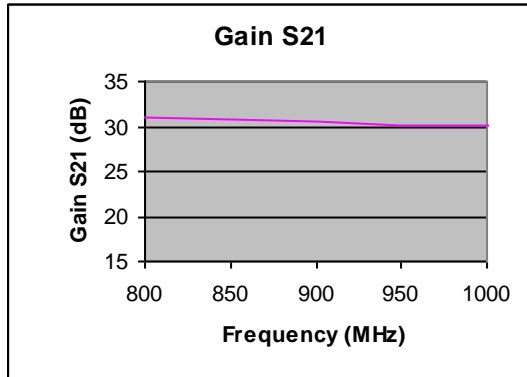
### Electrical Specifications @+25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		1450
Gain	f = 10KHz		31.0	
	f = 1000MHz		30.0	
	f = 1450MHz		25.5	
P <sub>1dB</sub>	f = 10KHz		+11	
	f = 1000MHz		+9	
	f = 1450MHz		+7	
IP3	f= 1000MHz		+21	
Reserve Isolation	f=1000MHz		-35	
Noise Figure	f = 10KHz		1.8	
	f = 1000MHz		2.0	
	f = 1450MHz		2.5	
VSWR	Input VSWR		1.5:1	
	Output VSWR		1.8:1	
DC Power Supply	V	10	12	18
Supply Current	mA		35	

Typical Performance @ +25 °C



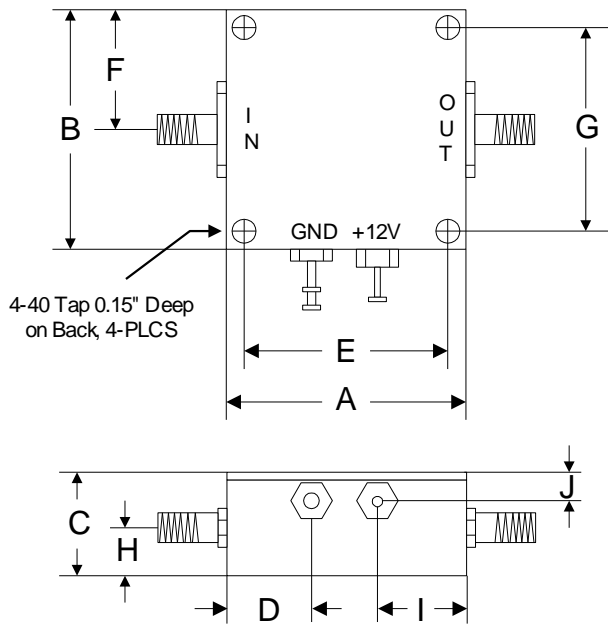
Typical Performance @ +25 °C



### 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