

DESCRIPTION

AMCOM's AM011533LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 10 MHz to 1500 MHz with Noise Figure of 3.3 dB and small signal gain of 26 dB. The module operates using a 12V 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: 10-1500MHz
- Gain: 26dB
- P1dB: +10dBm
- IP3: +23dBm
- Noise Figure: 3.3dB
- DC Power: 12V
- SMA Connector

Performance measured @ 1500MHz

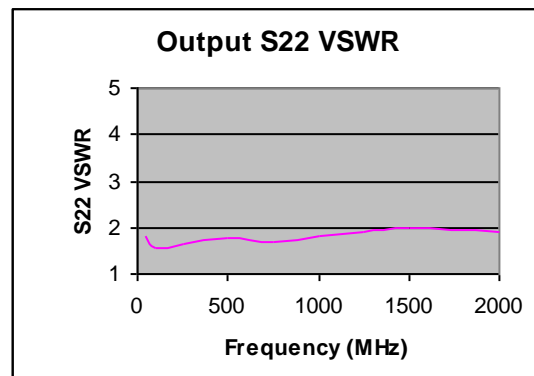
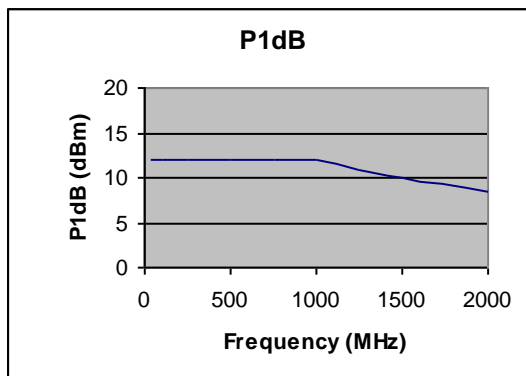
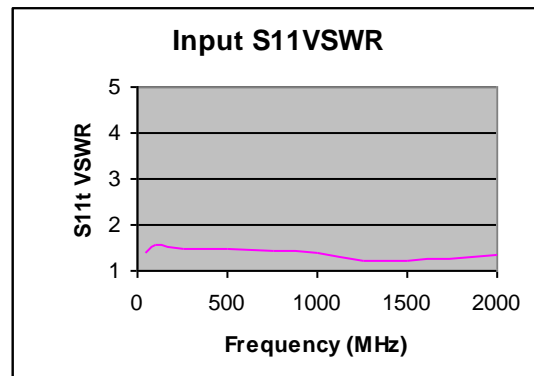
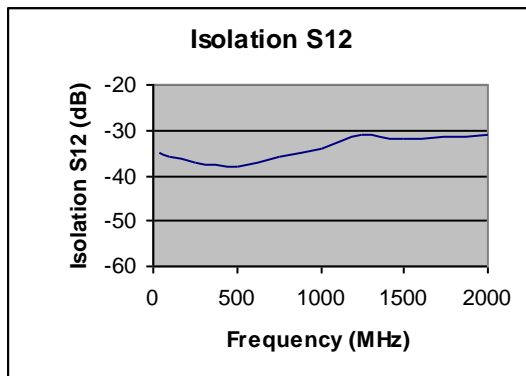
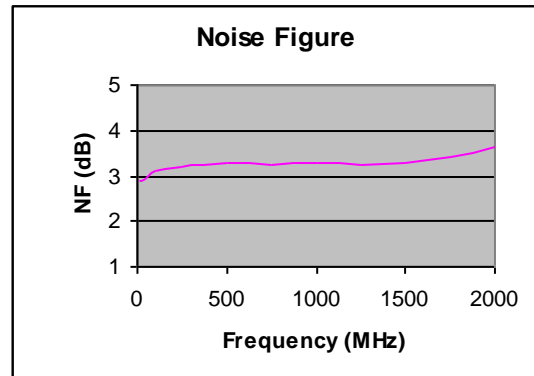
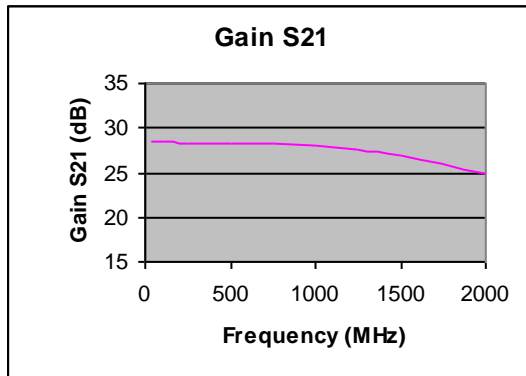
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		1500
Gain f = 40MHz	dB		28	
f = 500MHz	dB		28	
f = 1500MHz	dB		26	
P _{1dB} f = 40MHz	dBm		+12	
f = 500MHz	dBm		+12	
f = 1500MHz	dBm		+10	
IP3 f= 1500MHz	dBm		+23	
Noise Figure f = 10MHz	dB		2.9	
f = 500MHz	dB		3.3	
f = 1500MHz	dB		3.3	
VSWR f = 1500MHz				
Input VSWR			1.5:1	
Output VSWR			2.0:1	
DC Power Supply	V	9	12	15
Supply Current	mA		45	

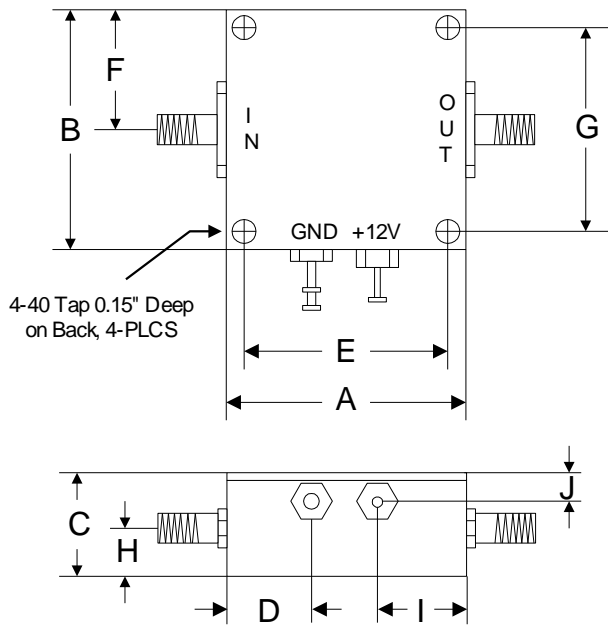
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+16V
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