

DESCRIPTION

AMCOM's AM061306LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 550 MHz to 1300 MHz with Noise Figure of 0.55 dB and small signal gain of 15.5 dB. The module operates using a 5V/90mA 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: 550 - 1300MHz
- Gain: 15.5dB
- P1dB: +21dBm
- IP3: +38dBm
- Noise Figure: 0.55dB
- DC Power: 5V/90mA
- SMA Connector

Performance measured @ 925MHz

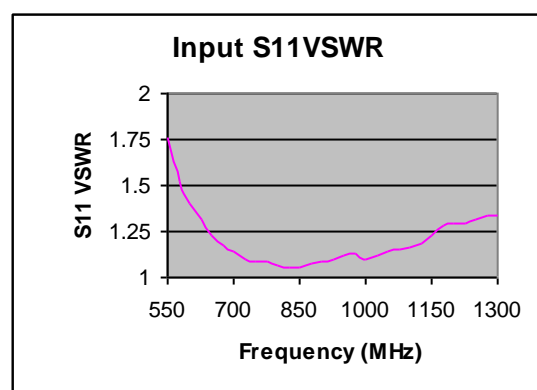
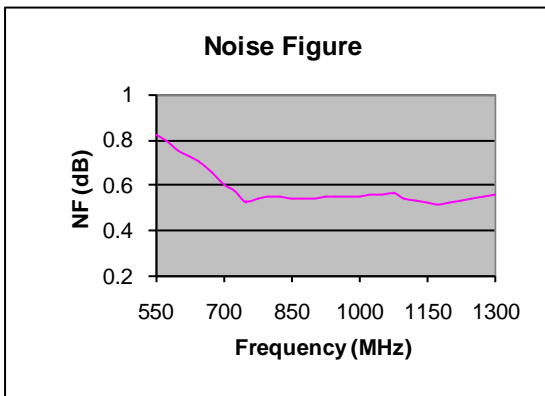
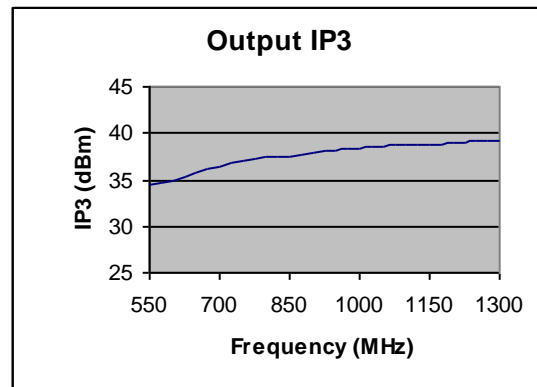
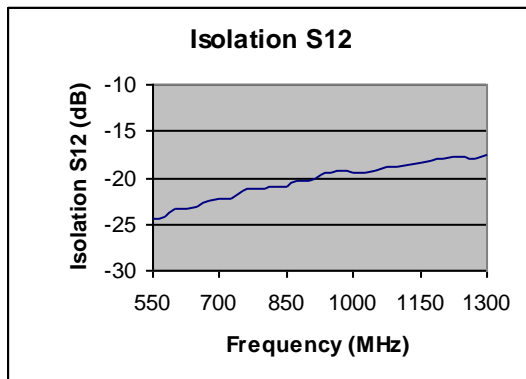
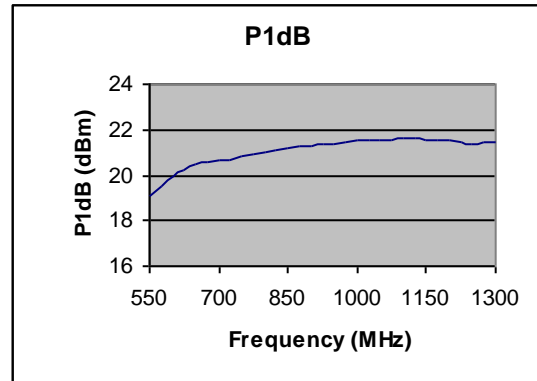
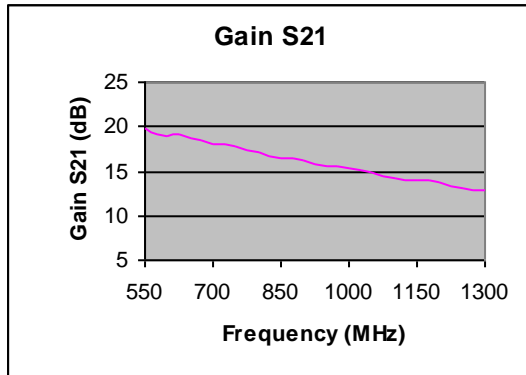
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

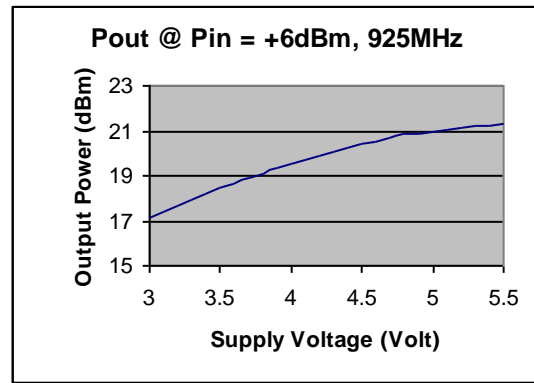
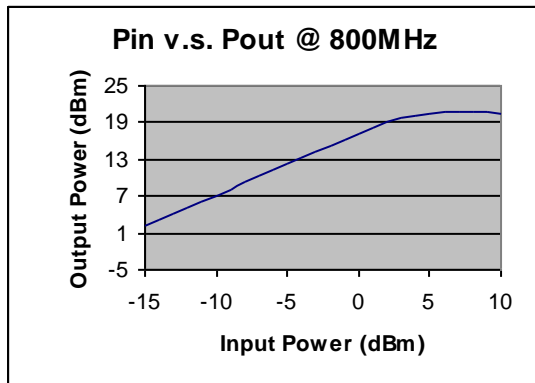
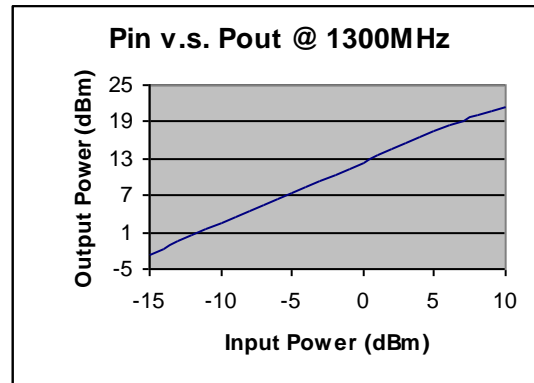
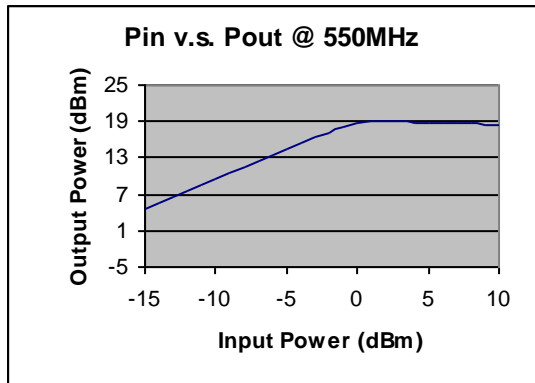
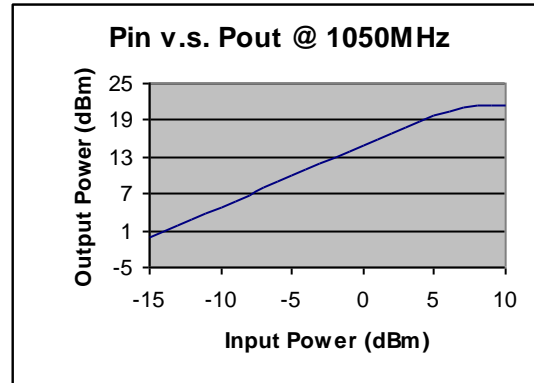
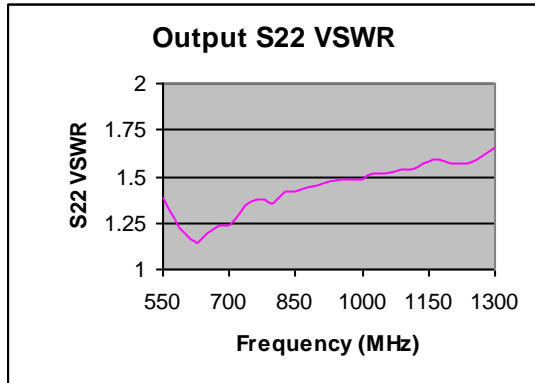
Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50$ Ohm, $V_{supply} = +12$ VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	550		1300
Gain				
f = 550MHz	dB		20.0	
f = 700MHz	dB		18.0	
f = 925MHz	dB		15.5	
f = 1150MHz	dB		13.8	
f = 1300MHz	dB		12.8	
P_{1dB}	dBm		+21	
IP3	dBm		+38	
Noise Figure	dB		0.55	
Reverse Isolation	dB		-20	
VSWR				
Input VSWR			1.1:1	
Output VSWR			1.5:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		90	

Typical Performance @ +25 °C



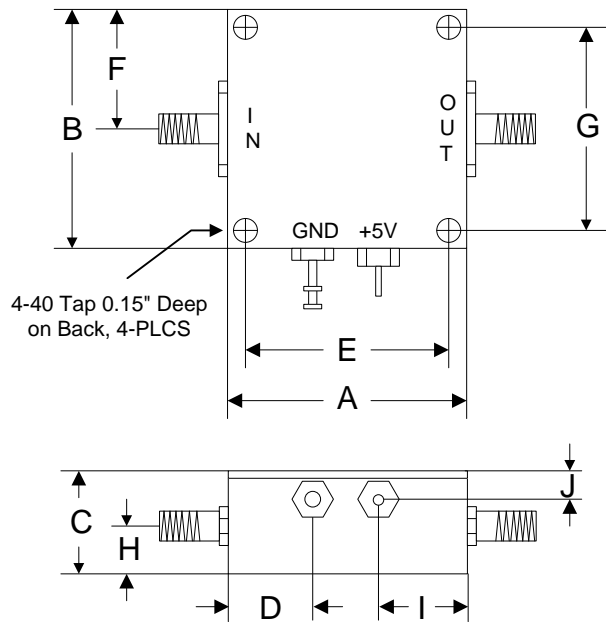
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+6V
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