



DESCRIPTION

AMCOM's AM456011LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 4.5 GHz to 6.0 GHz with Noise Figure of 1.1 dB and small signal gain of 15 dB. The module operates using a 5V/65mA 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: 4.5 – 6.0GHz
- Gain: 15dB
- P1dB: +18.4dBm
- IP3: +31.2dBm
- Noise Figure: 1.1dB
- DC Power: 5V/65mA
- SMA Connector

APPLICATIONS

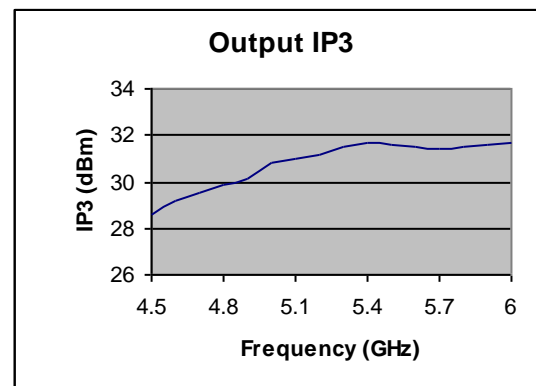
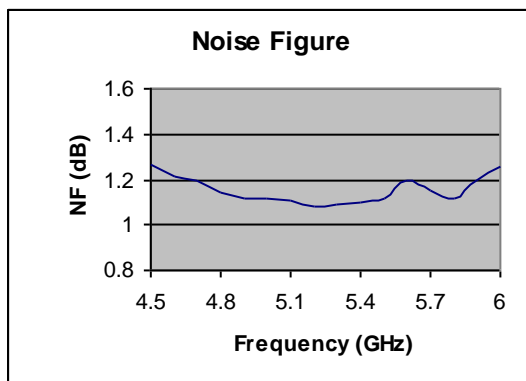
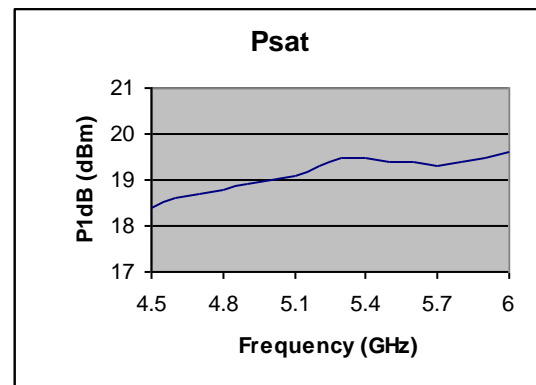
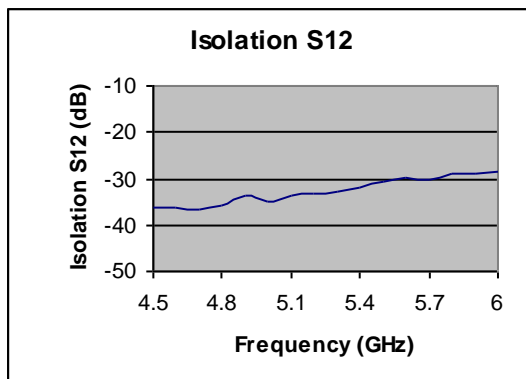
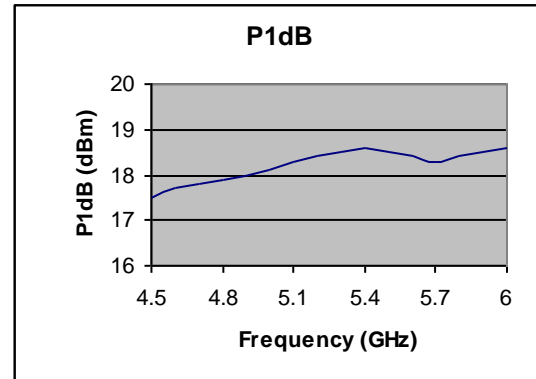
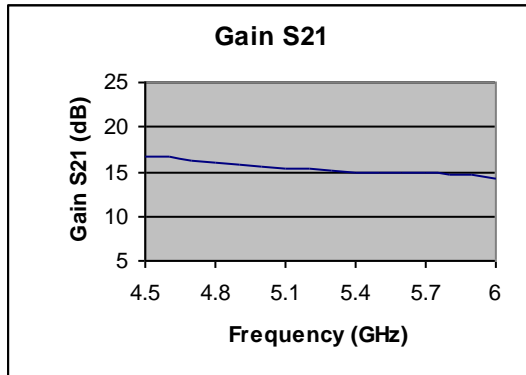
- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Performance measured @ 5.2GHz

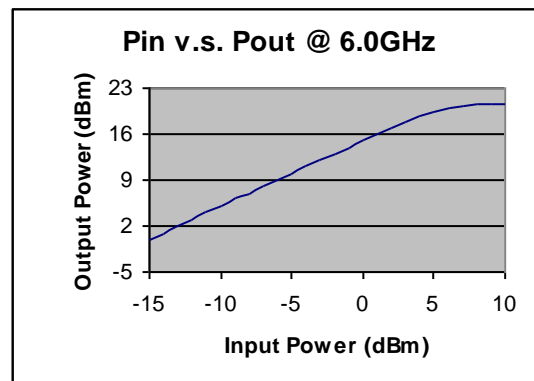
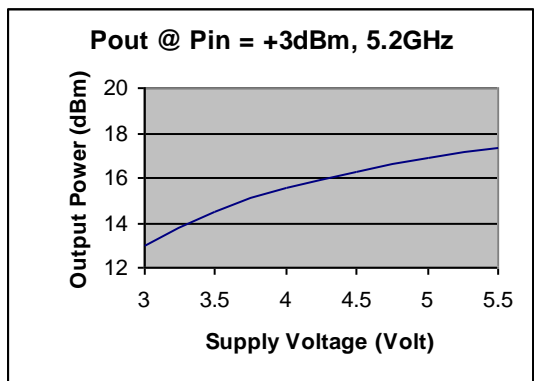
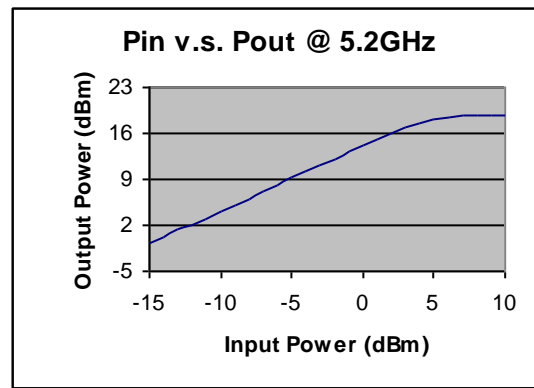
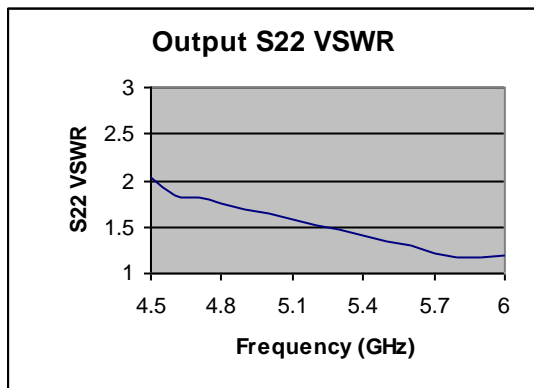
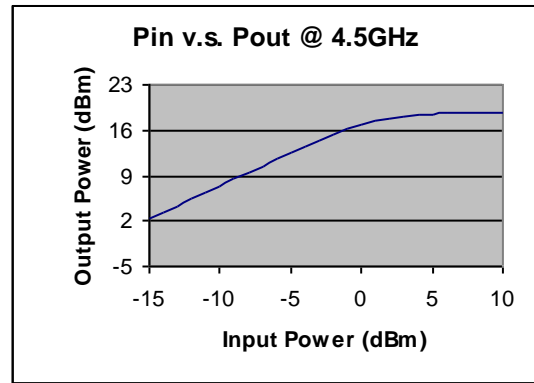
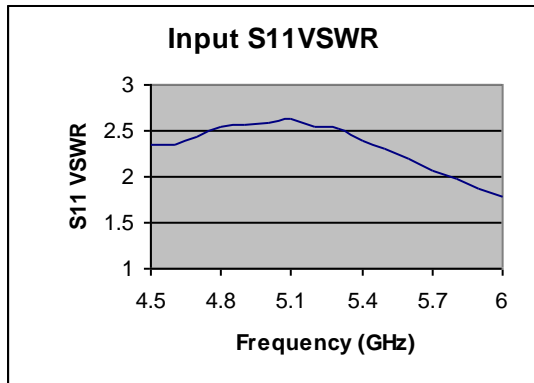
Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{cc} = 5V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4.5		6.0
Gain				
f = 4.5GHz	dB		16.5	
f = 5.2GHz	dB		15.0	
f = 6.0GHz	dB		14.0	
P _{1dB}				
f = 4.5GHz	dBm		+17.4	
f = 5.2GHz	dBm		+18.4	
f = 6.0GHz	dBm		+18.6	
IP3				
f = 4.5GHz	dBm		+28.6	
f = 5.2GHz	dBm		+31.2	
f = 6.0GHz	dBm		+31.7	
Noise Figure	dB		1.1	
Reverse Isolation	dB		-33	
VSWR				
Input VSWR			2.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		70	

Typical Performance @ +25 °C



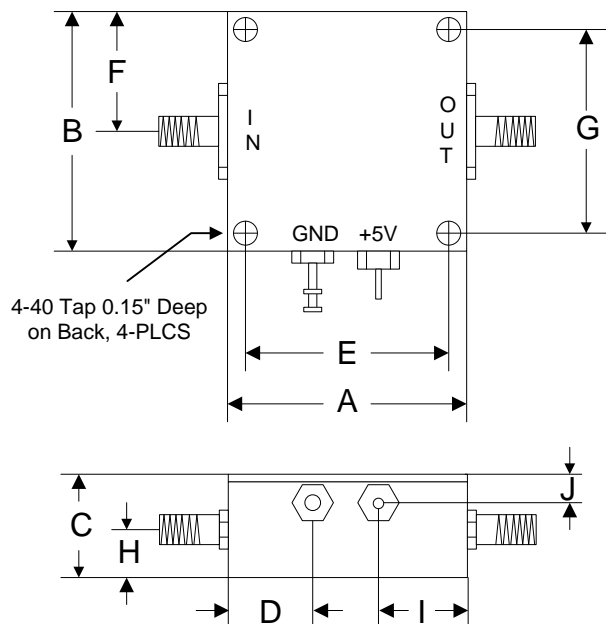
Typical Performance @ +25 °C



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