

DESCRIPTION

AMCOM's AM091012LN-P1 is a broadband Low Noise Amplifier module. It is designed for general purpose applications. It operates from 902 MHz to 928 MHz with Noise Figure of 1.2 dB and small signal gain of 24 dB. The module operates using a 6 - 24V 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: 902-928MHz
- Gain: 24dB
- P1dB: +13dBm
- IP3: +25dBm
- Noise Figure: 1.2dB
- DC Power: 6 - 24V
- SMA Connector

Performance measured @ 915MHz

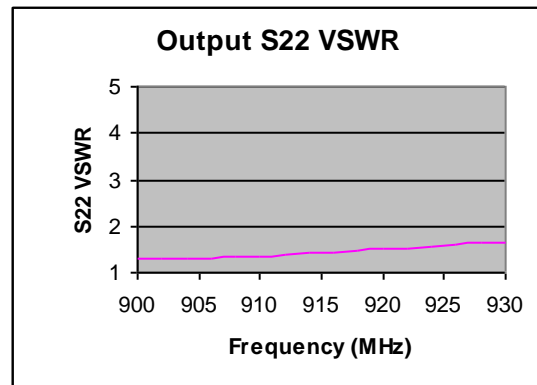
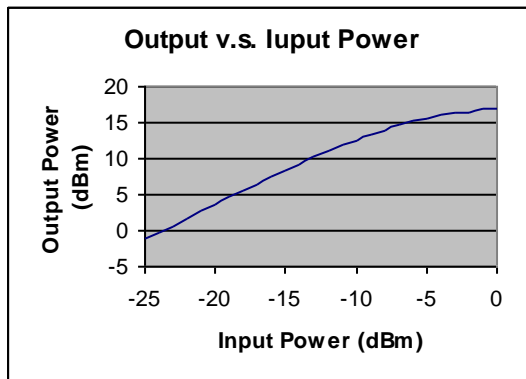
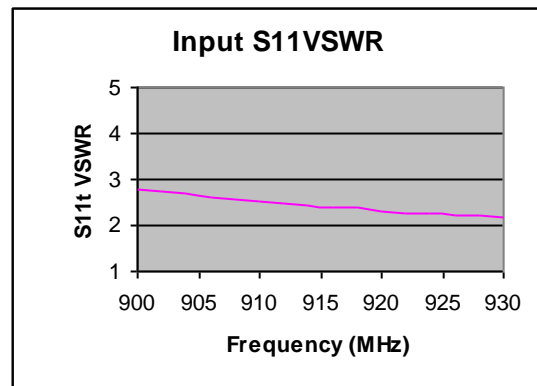
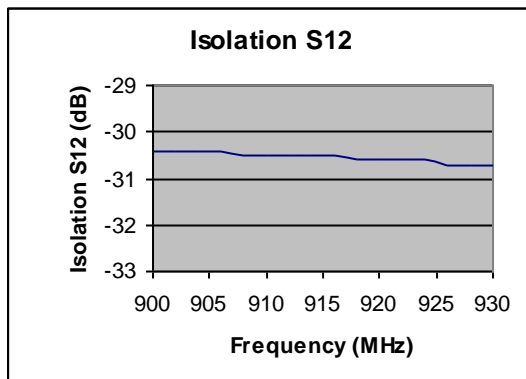
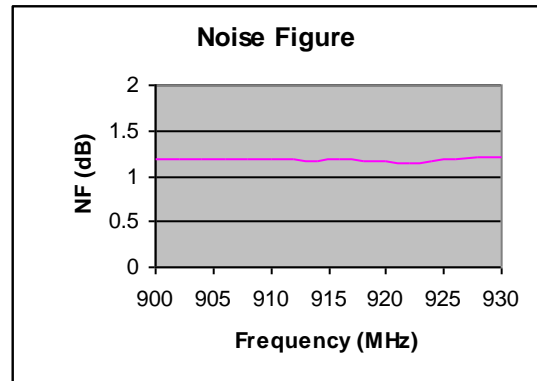
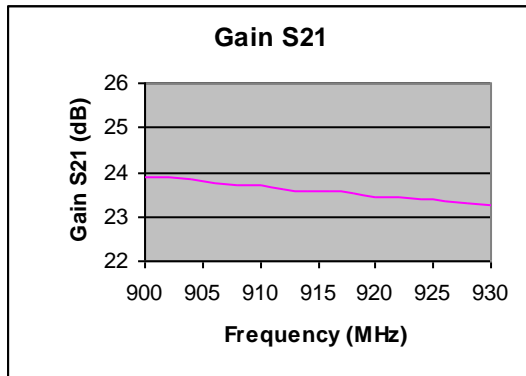
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	902		928
Gain $f = 902\text{MHz}$	dB		23	
$f = 915\text{MHz}$	dB	22	23	
$f = 928\text{MHz}$	dB		23	
Gain Flatness $f = 902 - 928\text{MHz}$	dB		± 0.4	
$P_{1dB} f = 915\text{MHz}$	dBm		+13	
IP3 $f = 915\text{MHz}$	dBm		+25	
Noise Figure	dB		1.2	1.3
Reverse Isolation	dB		-30	
VSWR $f = 915\text{MHz}$				
Input VSWR			2.4:1	
Output VSWR			1.4:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

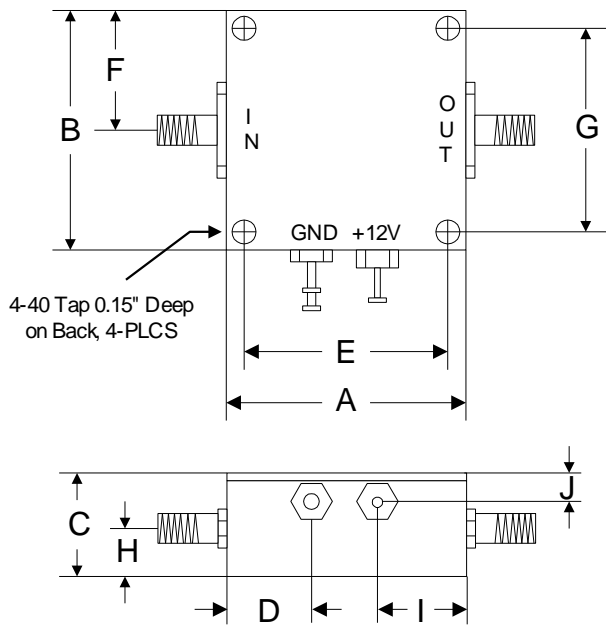
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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