

## LNA Series

## 1 – 8GHz Low Noise Amplifier

### Features

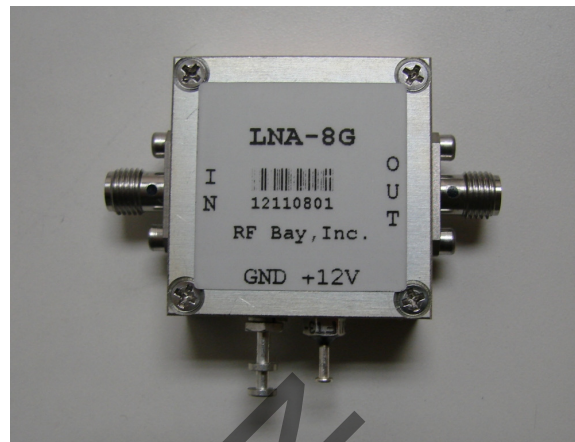
- Frequency Range: 1- 8GHz
- Gain: 24dB
- $P_{1dB}$ : +6.3dBm
- IP3: +16dBm
- Noise Figure: 1.6dB
- DC Power: 7- 20V
- SMA Connector

Performance measured @ 4GHz

### Description

LNA-8G is a wideband Low Noise Amplifier operates with frequency range usable from 1GHz to 8GHz.

### Picture



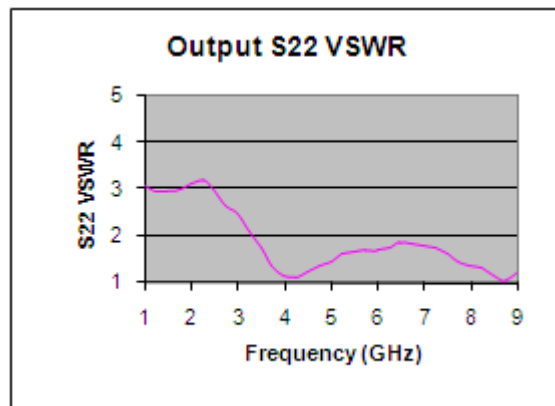
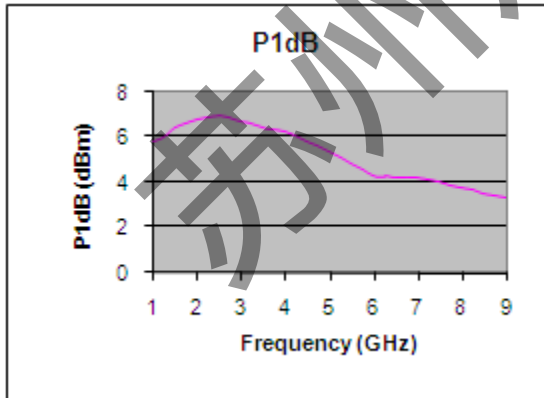
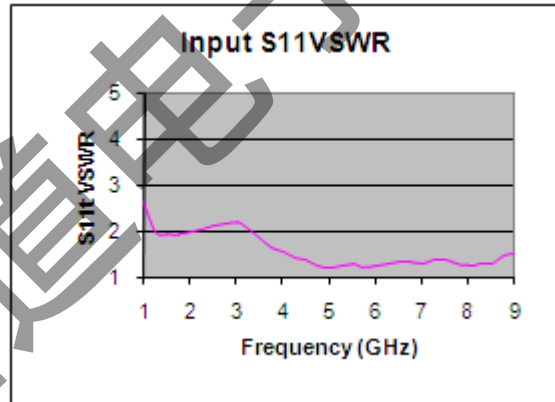
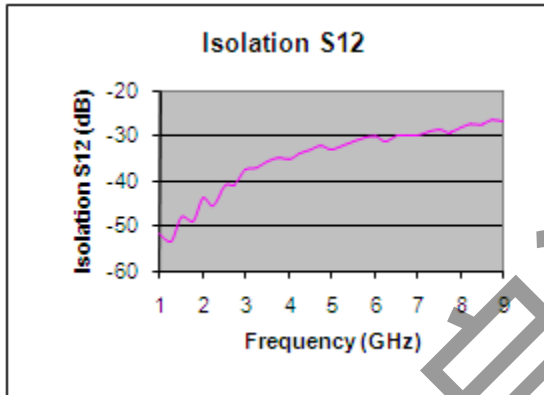
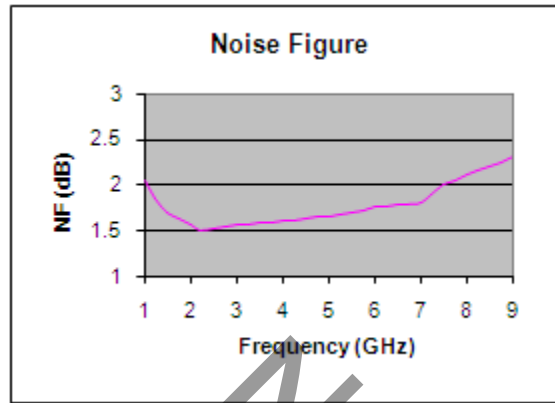
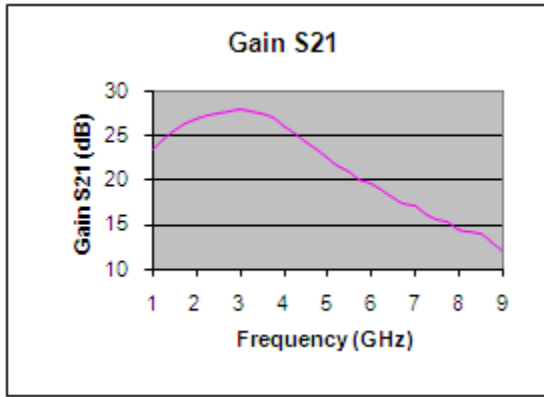
### Electrical Specifications @ +25 °C, $Z_{in}=Z_{out}= 50 \Omega$ , $V_{cc}= 12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	1		8
Gain				
f = 1GHz	dB		23	
f = 4GHz	dB		25	
f = 8GHz	dB		14	
$P_{1dB}$				
f = 1GHz	dBm		+5.8	
f = 4GHz	dBm		+6.3	
f = 8GHz	dBm		+3.8	
IP3	dBm		+16	
Noise Figure				
f = 1GHz	dB		2.0	
f = 4GHz	dB		1.6	
f = 8GHz	dB		2.1	
VSWR				
f = 4GHz				
Input VSWR			1.5:1	
Output VSWR			1.2:1	
DC Power Supply	V	7	12	20
Supply Current	mA		20	

**LNA Series**

**1 – 8GHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



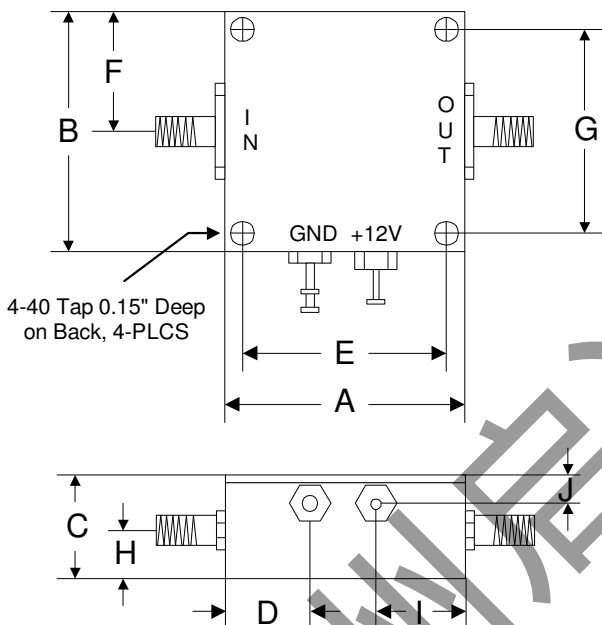
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+30V
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