

## LNA Series

## 550 – 1300MHz Low Noise Amplifier

### Features

- Frequency Range: 550 - 1300MHz
- Gain: 15.5dB
- $P_{1dB}$ : +21dBm
- IP3: +38dBm
- Noise Figure: 0.55dB
- DC Power: 5V/90mA
- SMA Connector

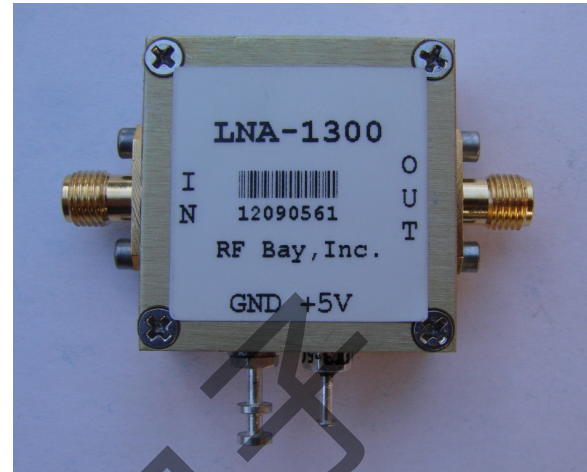
Performance measured @ 925MHz

### Description

LNA-1300 is a 0.55dB Noise Figure Low Noise Amplifier operates in wideband

with frequency range from 550MHz to 1300MHz.

### Picture



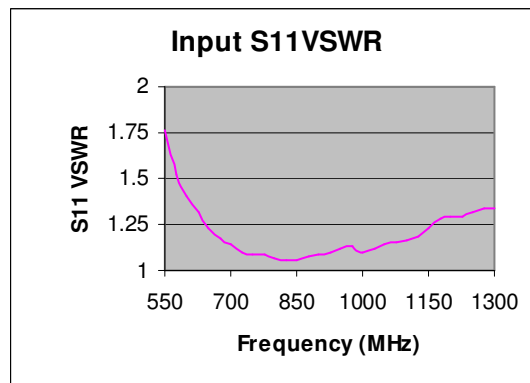
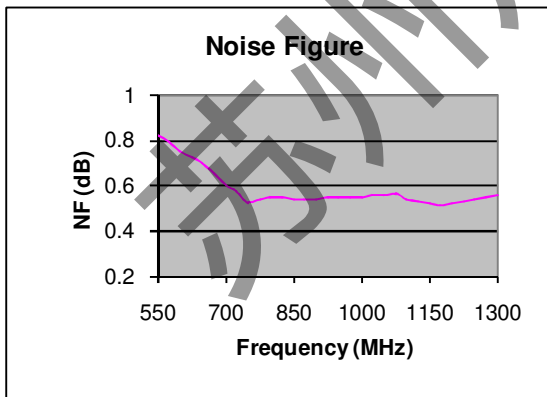
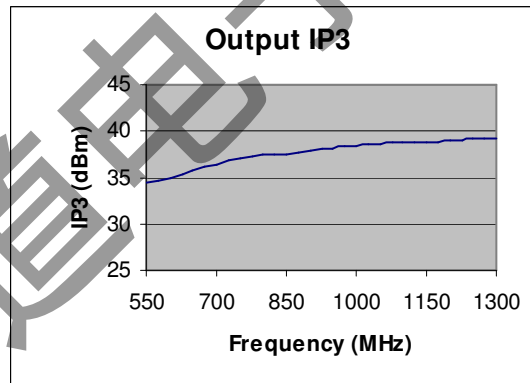
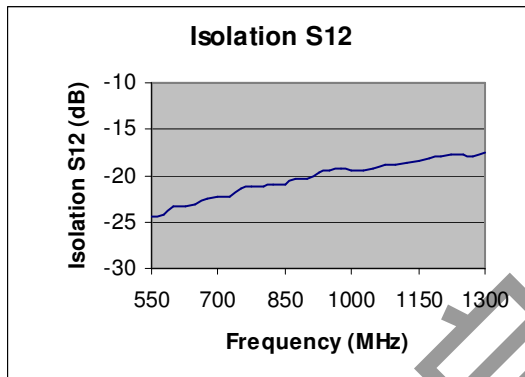
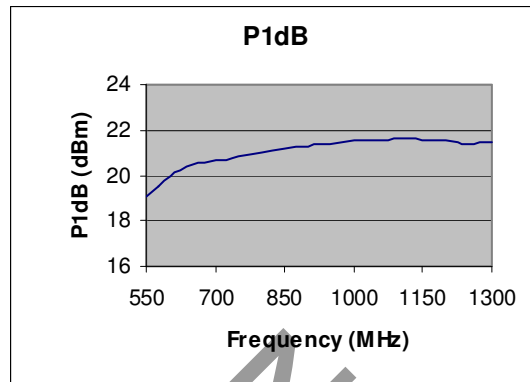
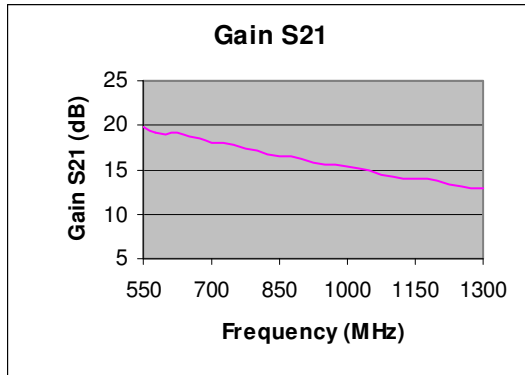
### Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$ , $V_{cc} = 5V$

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	

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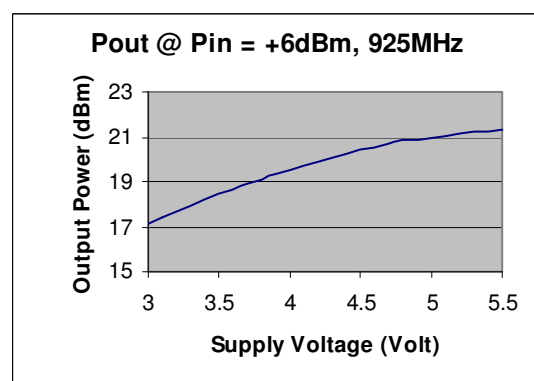
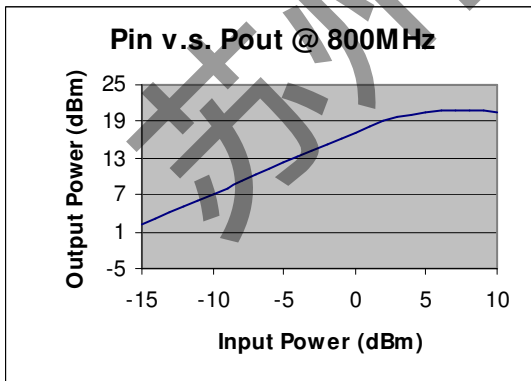
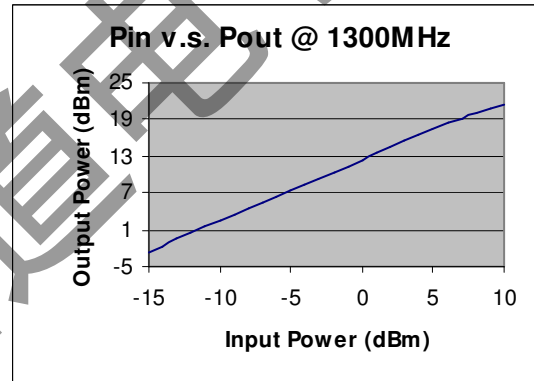
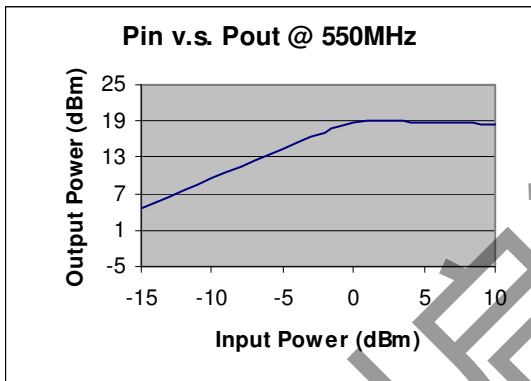
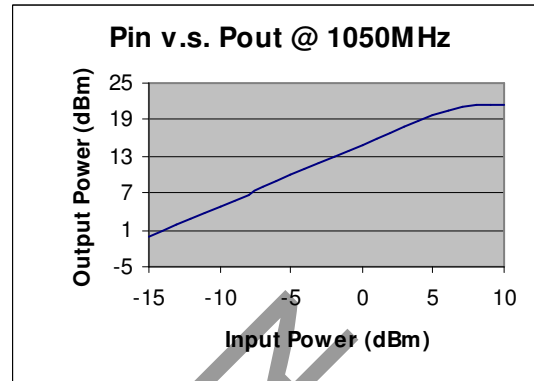
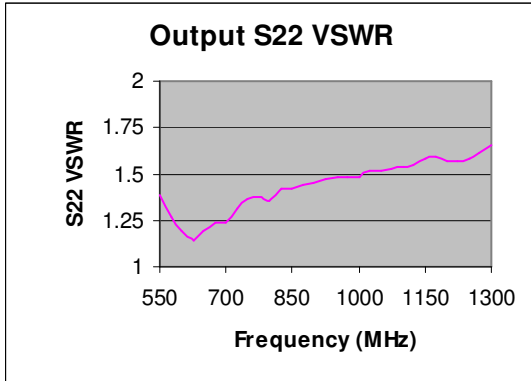
### Typical Performance @ +25 °C



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### Typical Performance @ +25 °C



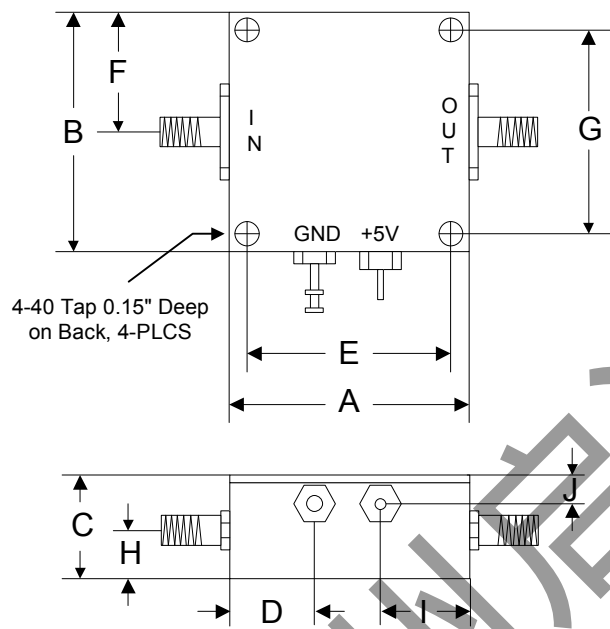
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### Absolute Maximum Ratings

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