

LNA Series

1650 – 2250MHz Low Noise Amplifier

Features

- Frequency Range: 1650 - 2250MHz
- Gain: 18dB
- P_{1dB}: +20dBm
- IP3: +36dBm
- Noise Figure: 0.8dB
- DC Power: 5V/115mA
- SMA Connector

Performance measured @ 1950MHz

Description

LNA-2250 is a 0.8dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 1650MHz to 2250MHz.

Picture



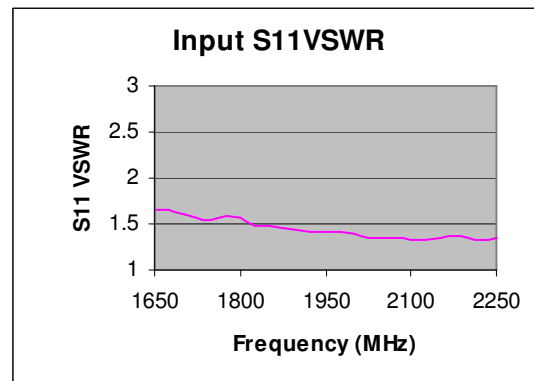
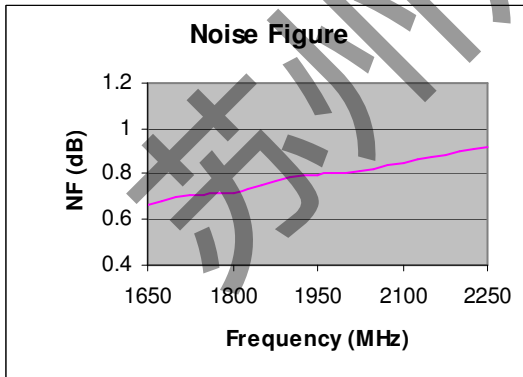
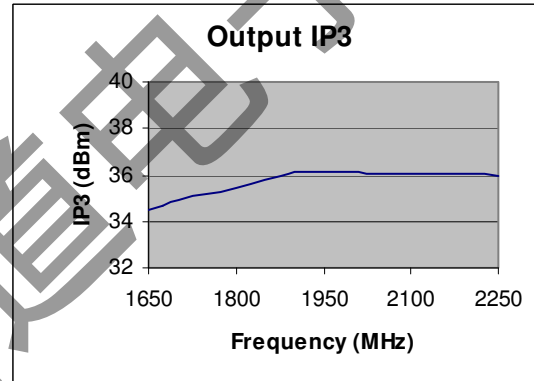
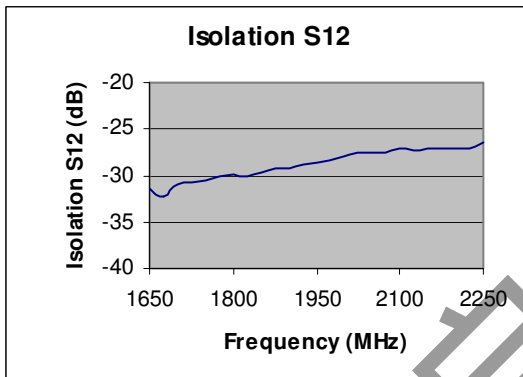
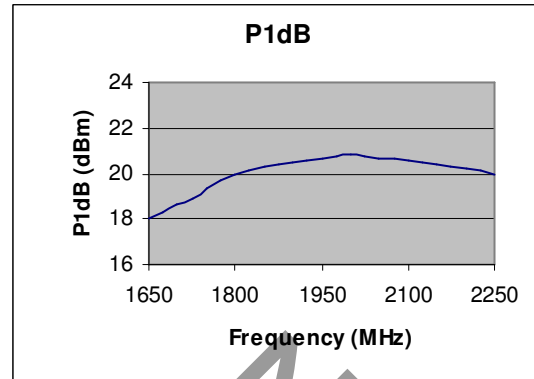
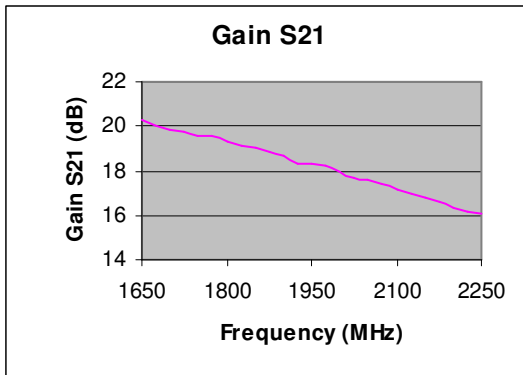
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	550		1300
Gain				
f = 1650MHz	dB		20.0	
f = 1800MHz	dB		19.3	
f = 1950MHz	dB		18.0	
f = 2100MHz	dB		17.0	
f = 2250MHz	dB		16.0	
P _{1dB}	dBm		+20	
IP3	dBm		+36	
Noise Figure	dB		0.8	
Reverse Isolation	dB		-28	
VSWR				
Input VSWR			1.4:1	
Output VSWR			1.3:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		115	

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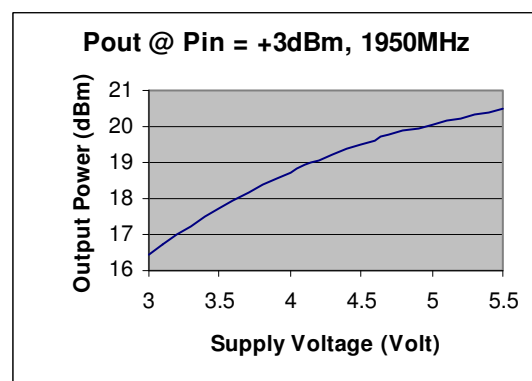
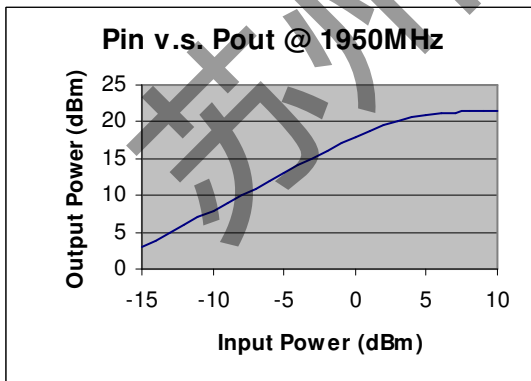
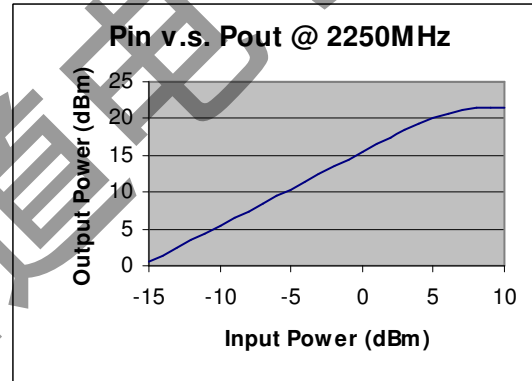
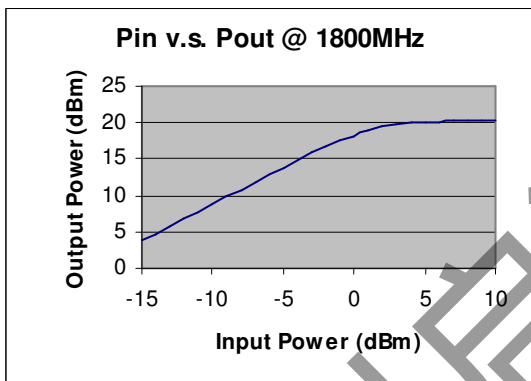
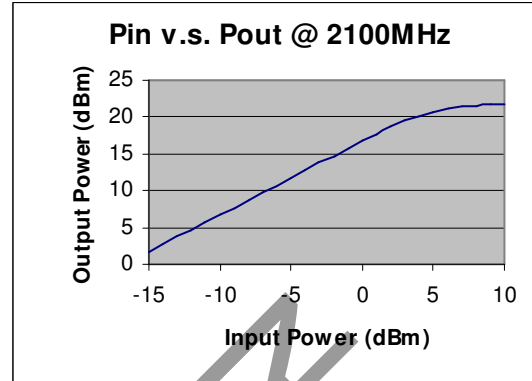
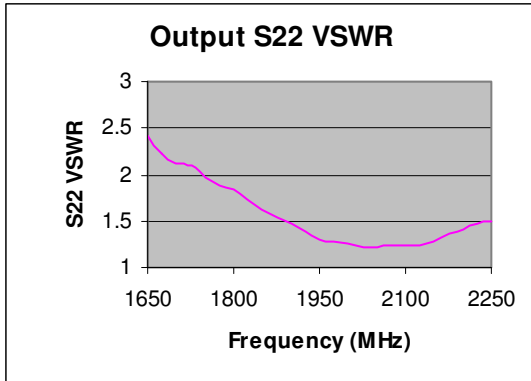
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



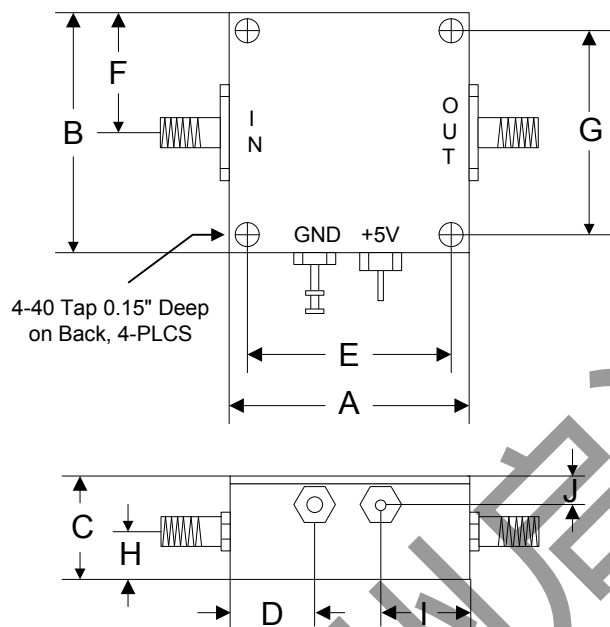
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Absolute Maximum Ratings

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