

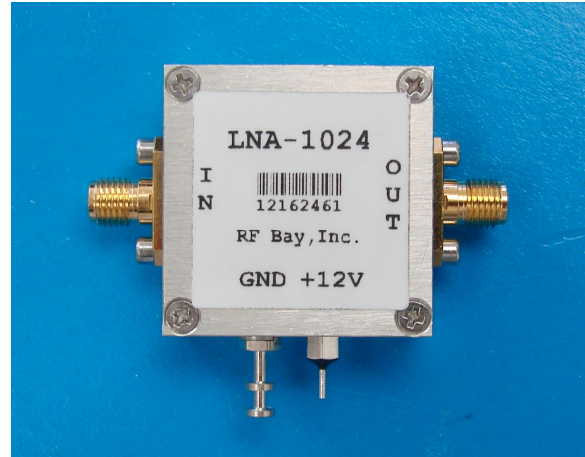
LNA Series

100 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 100-1000MHz
- Gain: 24dB
- P_{1dB}: +24dBm
- IP3: +40dBm
- Noise Figure: 2.0dB
- DC Power: 12V/160mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

LNA-1024 is a 24dB Gain Flat Frequency Response Low Noise Amplifier operates in frequency range from 100 to 1000MHz.

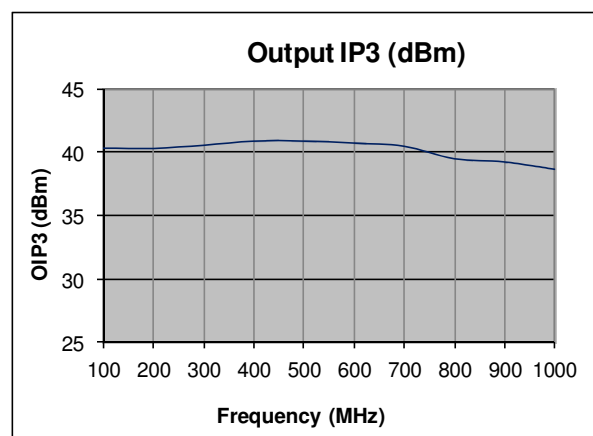
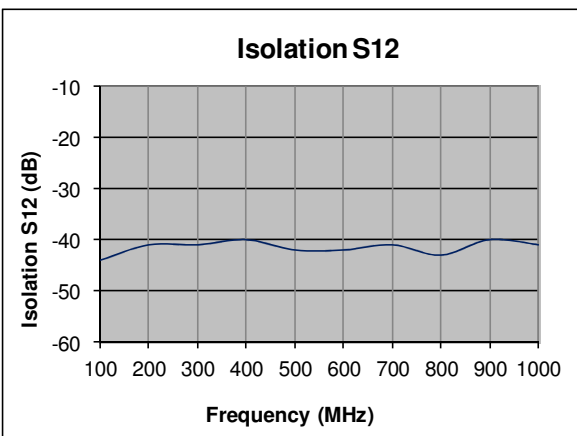
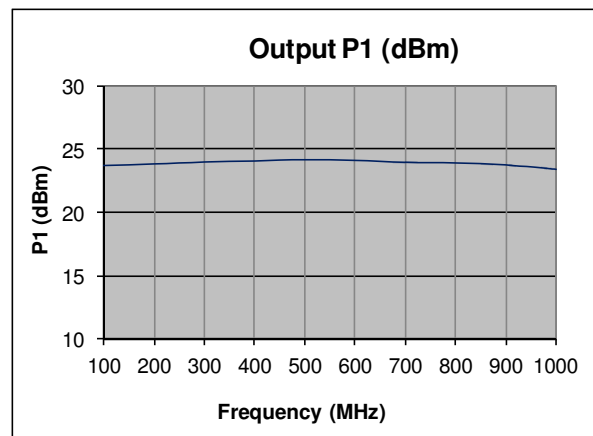
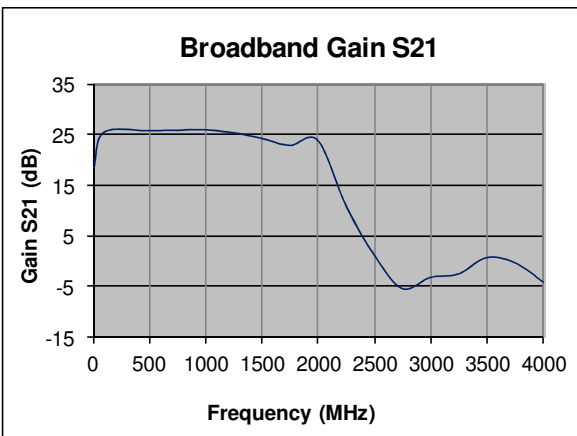
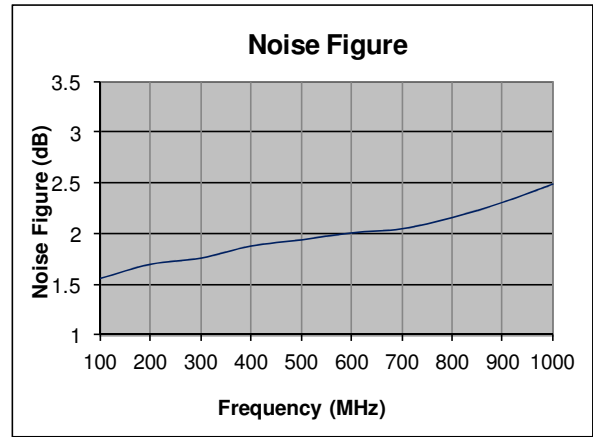
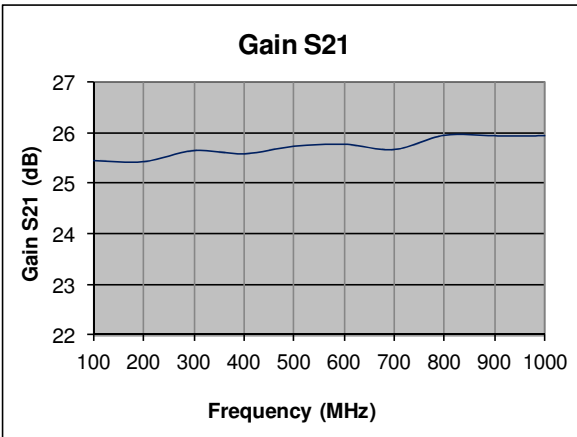
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{supply} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		1000
Gain S ₂₁ f = 100MHz	dB	24.0	25.5	
f = 300MHz	dB	24.0	25.6	
f = 500MHz	dB	24.0	25.7	
f = 700MHz	dB	24.0	25.7	
f = 1000MHz	dB	24.0	25.9	
Gain Flatness	dB		± 0.25	± 0.5
P _{1dB} @ 500MHz	dBm	+22	+24	
Output IP3 @ 500MHz	dBm	+36	+40	
Noise Figure @ 500MHz	dB		2.0	3.0
Reverse Isolation S ₁₂	dB		-40	
VSWR Input VSWR S ₁₁			1.5:1	2.0:1
Output VSWR S ₂₂			1.5:1	2.0:1
DC Power Supply	V	11	12 to 15	30
Supply Current	mA		160	200

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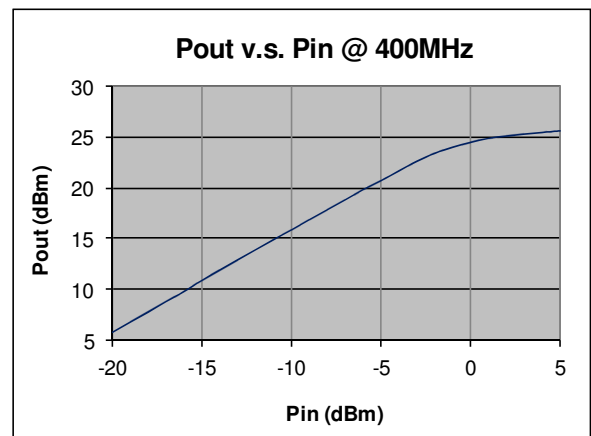
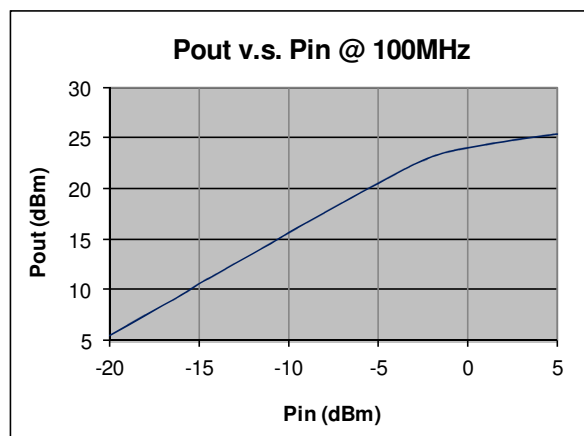
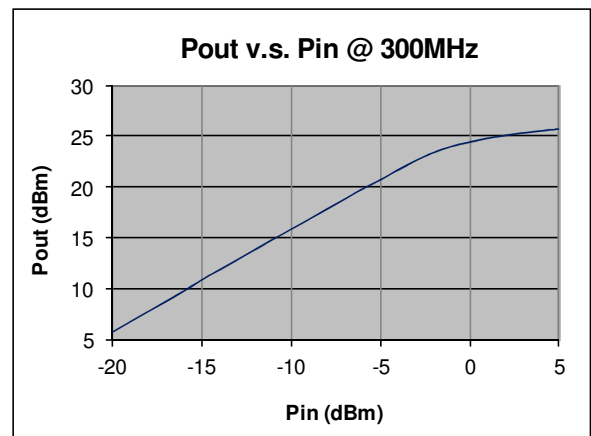
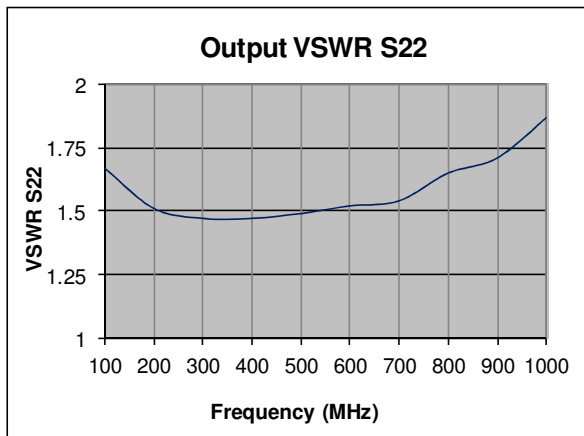
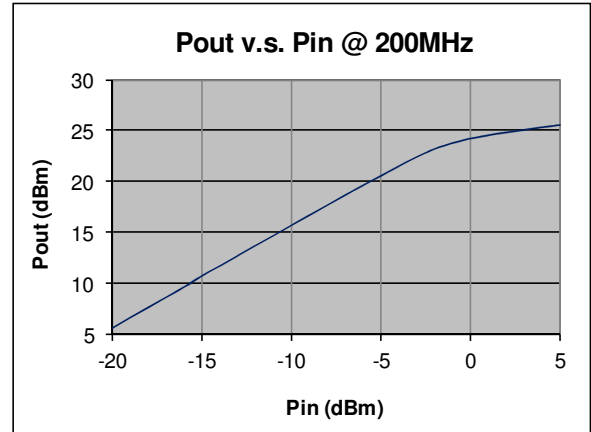
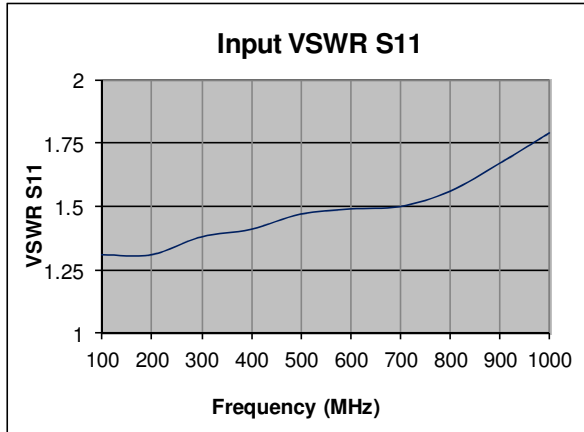
Typical Performance @ +25 °C



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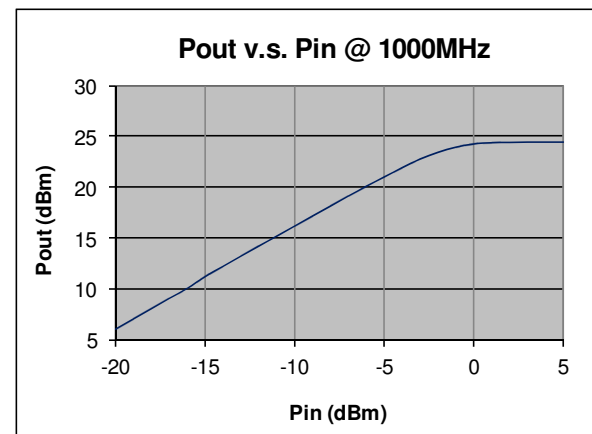
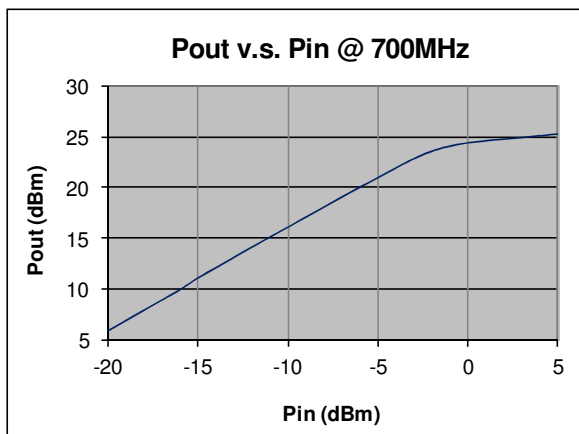
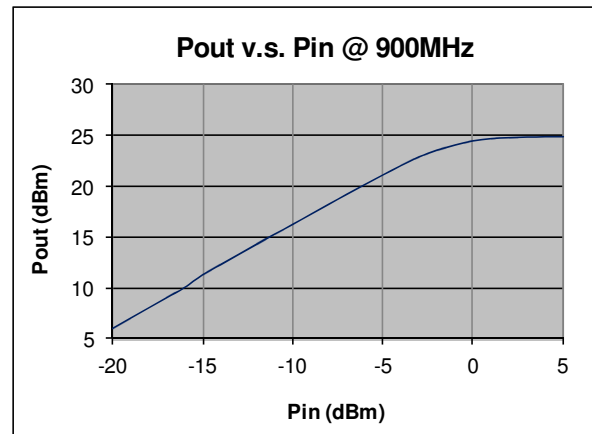
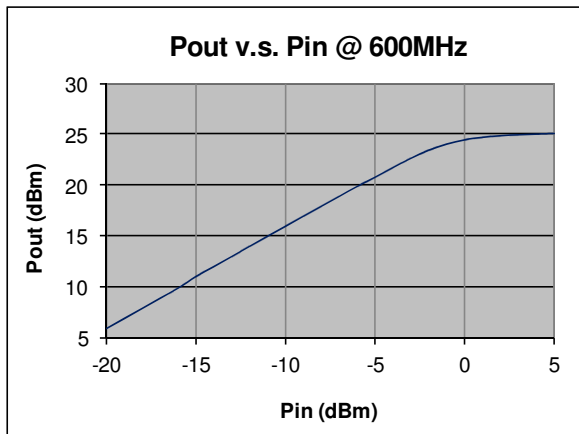
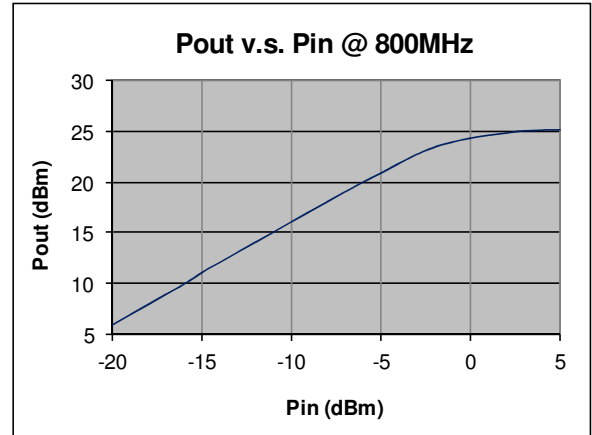
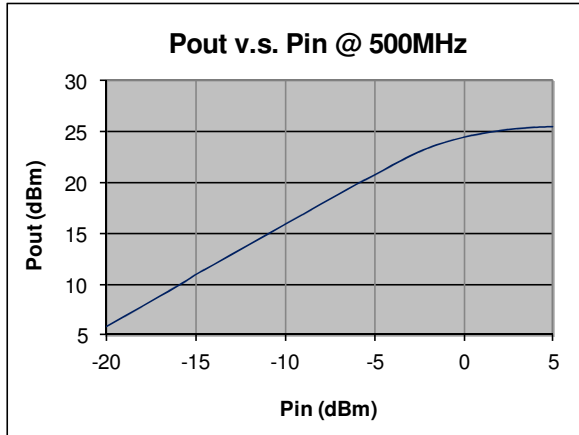
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



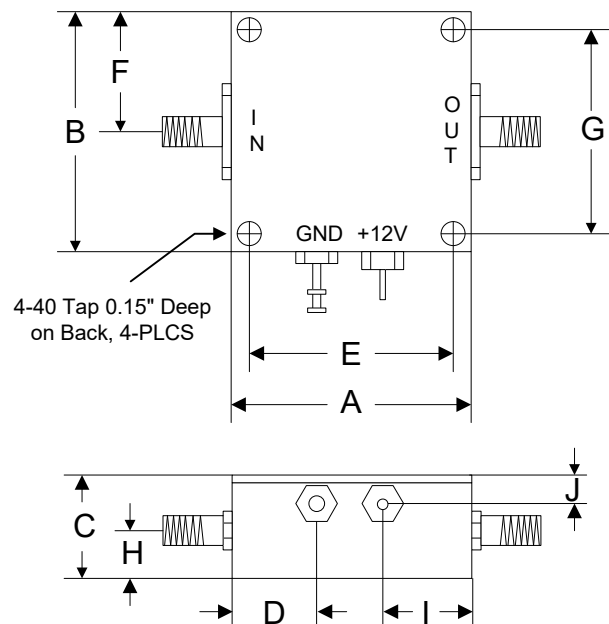
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+35V
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

WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C