

LNA Series

50 – 2000MHz Low Noise Amplifier

Features

- Frequency Range: 50 - 2000MHz
- Gain: 40dB
- P_{1dB}: +24dBm
- IP3: +37dBm
- Noise Figure: 3.2dB
- DC Power: 12V/200mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

LNA-1570 is a high dynamic range Low Noise Amplifier operates in frequency range from 50MHz to 2000MHz.

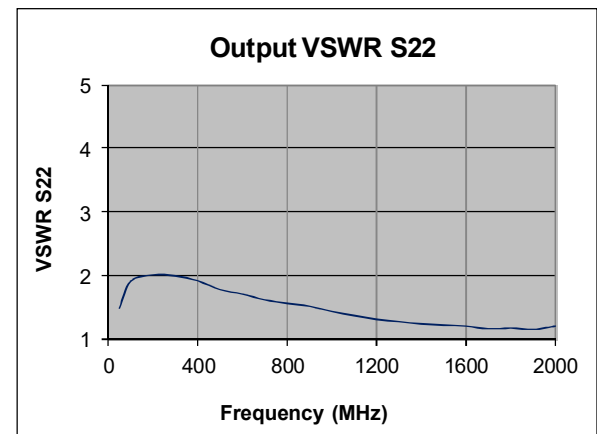
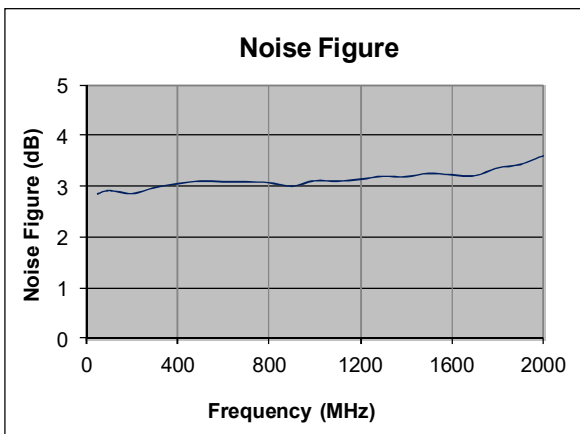
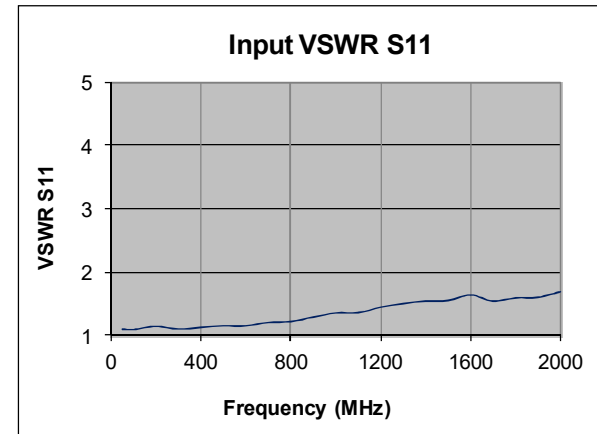
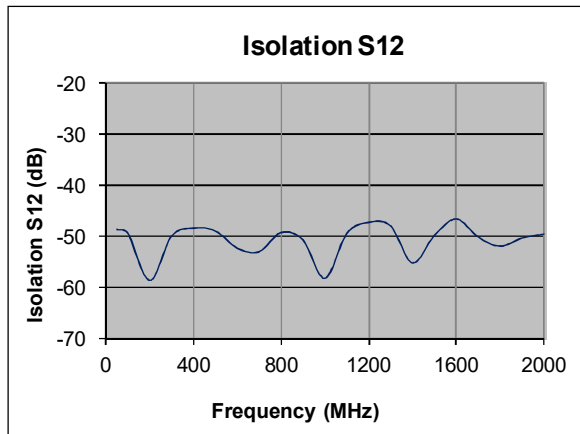
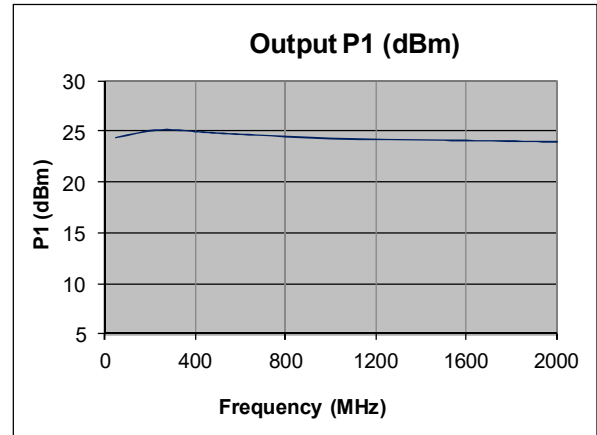
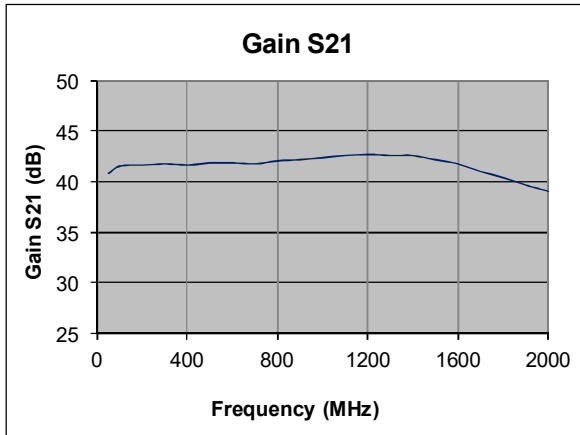
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{supply} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		2000
Gain S ₂₁ f = 50MHz	dB		40.5	
f = 500MHz	dB		41.5	
f = 1000MHz	dB		42.0	
f = 1500MHz	dB		42.0	
f = 2000MHz	dB		39.0	
Gain Flatness	dB		± 1.75	
P _{1dB}	dBm		+24	
IP3	dBm		+37	
Noise Figure	dB		3.2	
Reverse Isolation S ₁₂	dB		-50	
VSWR Input VSWR S ₁₁			1.4:1	
Output VSWR S ₂₂			1.5:1	
DC Power Supply	V		12	15
Supply Current	mA		200	

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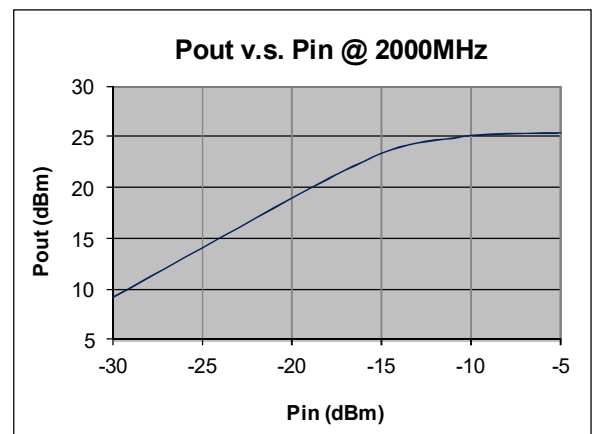
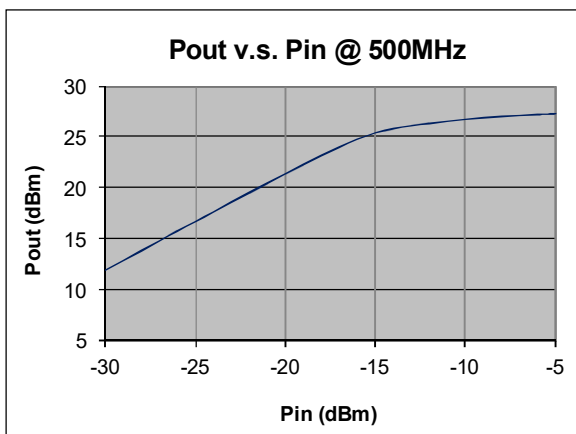
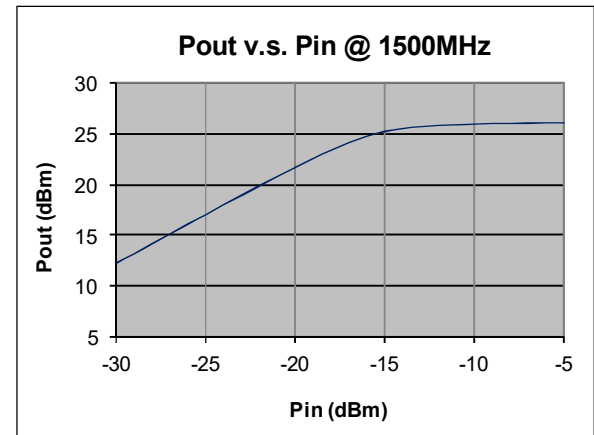
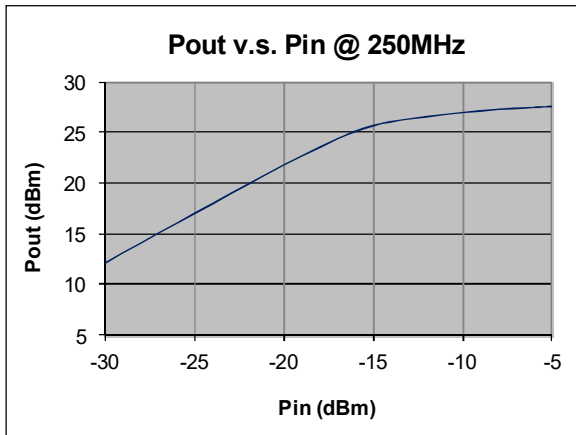
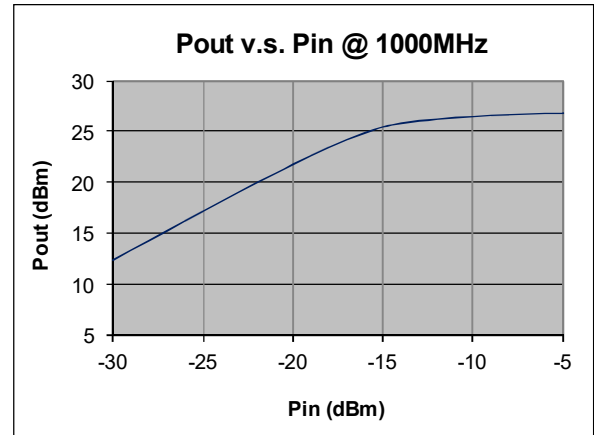
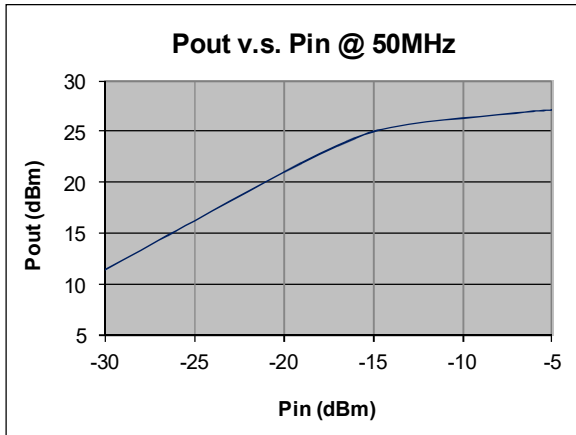
Typical Performance @ +25 °C



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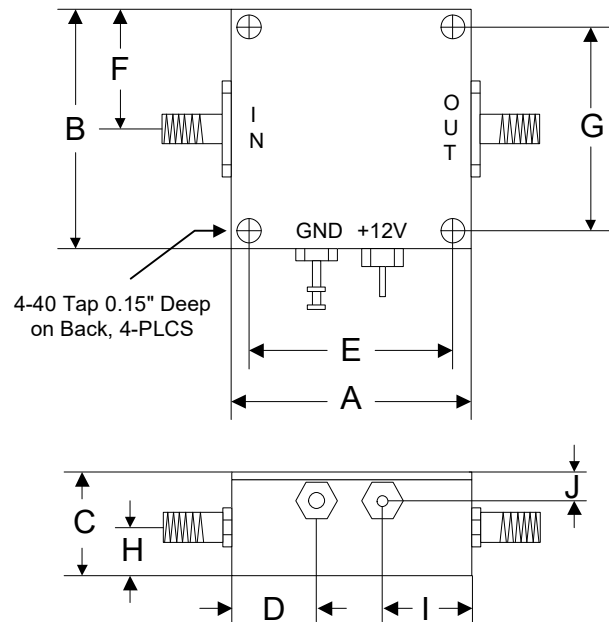
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
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

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