

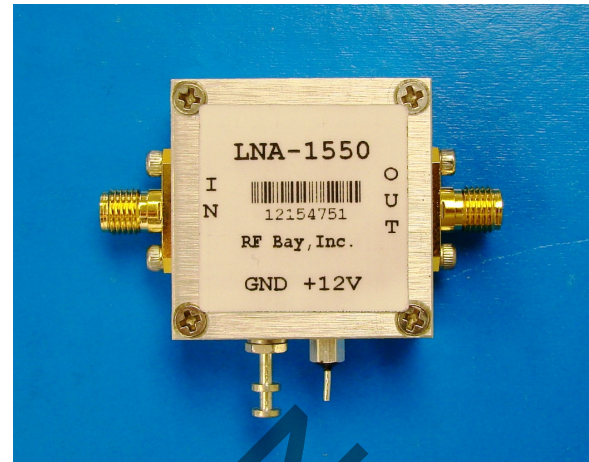
LNA Series

50 – 1550MHz Low Noise Amplifier

Features

- Frequency Range: 50 - 1550MHz
- Gain: 47dB
- P_{1dB}: +20dBm
- IP3: +33dBm
- Noise Figure: 2.7dB
- DC Power: 12V/140mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

LNA-1550 is a flat response Low Noise Amplifier operates in frequency range from 50MHz to 1550MHz.

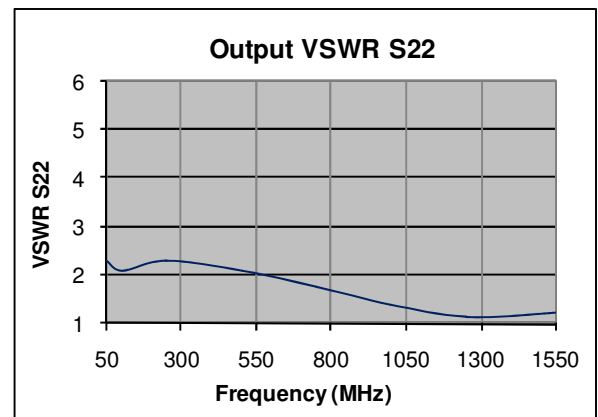
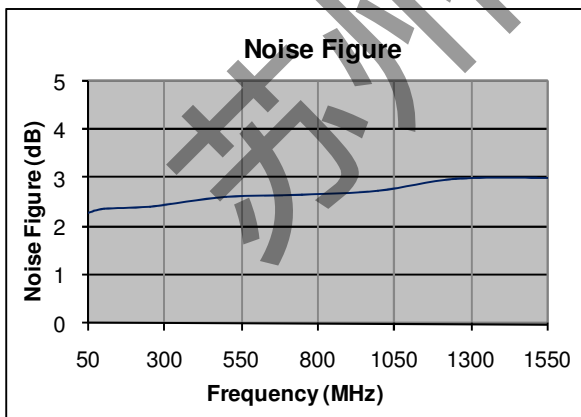
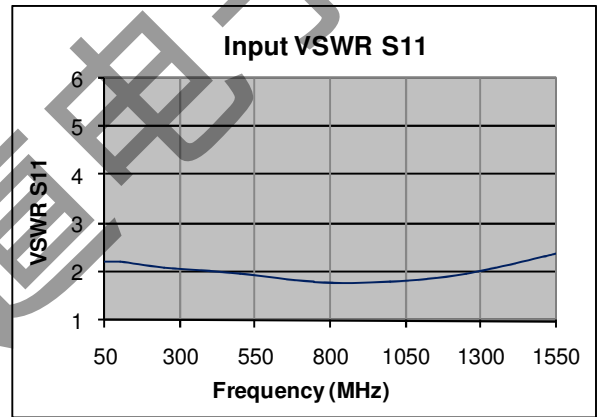
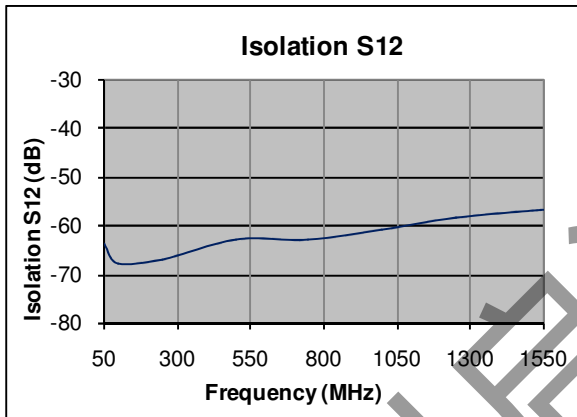
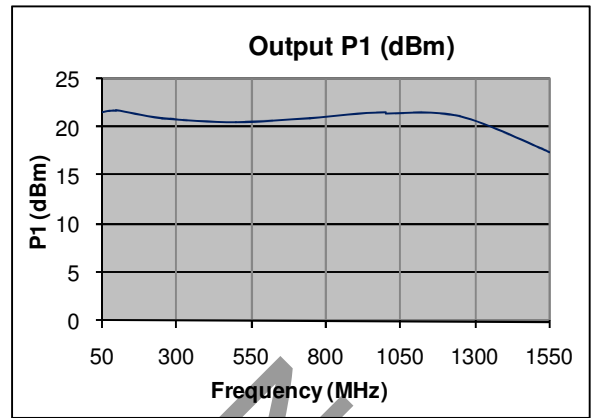
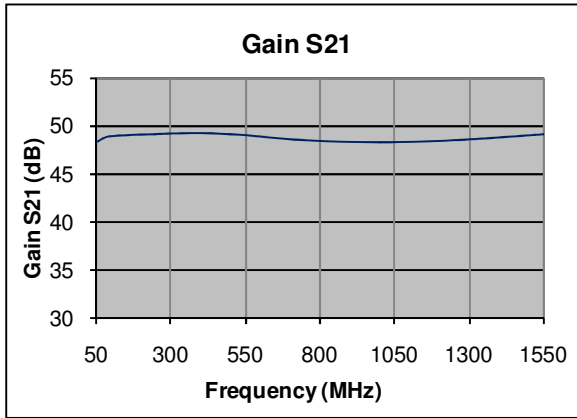
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{supply} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		1550
Gain S ₂₁ f = 50MHz	dB		48.2	
f = 250MHz	dB		49.1	
f = 750MHz	dB	47	48.5	
f = 1250MHz	dB		48.5	
f = 1550MHz	dB		49.0	
Gain Flatness	dB		± 0.5	
P _{1dB}	dBm		+20	
IP3	dBm		+33	
Noise Figure	dB		2.7	
Reverse Isolation G ₁₂	dB		-60	
VSWR Input VSWR S ₁₁			2.5:1	
Output VSWR S ₂₂			2.5:1	
DC Power Supply	V		12	15
Supply Current	mA		140	

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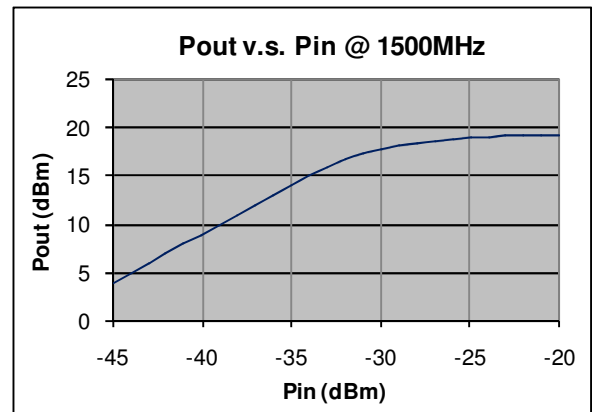
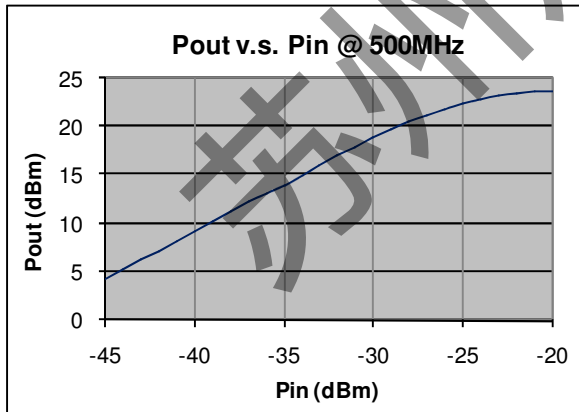
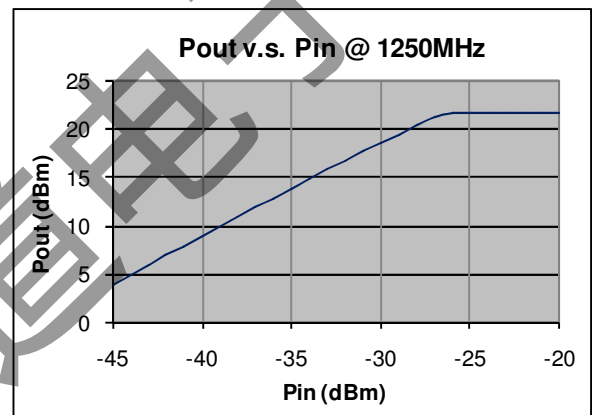
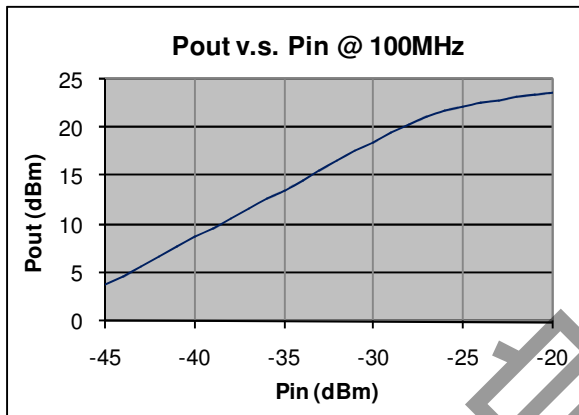
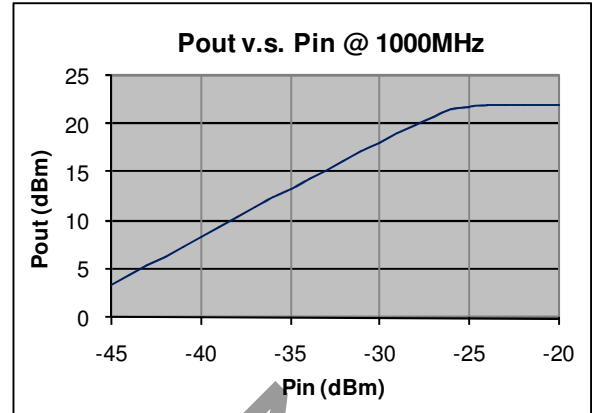
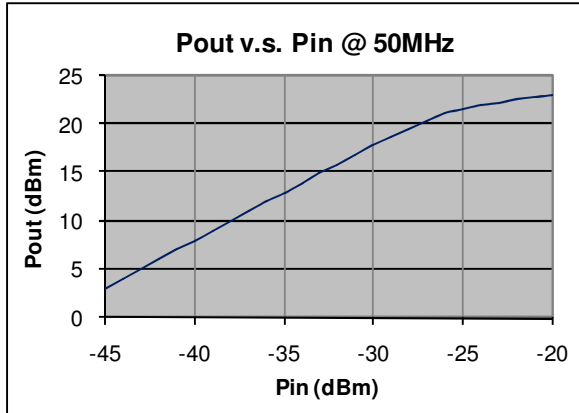
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



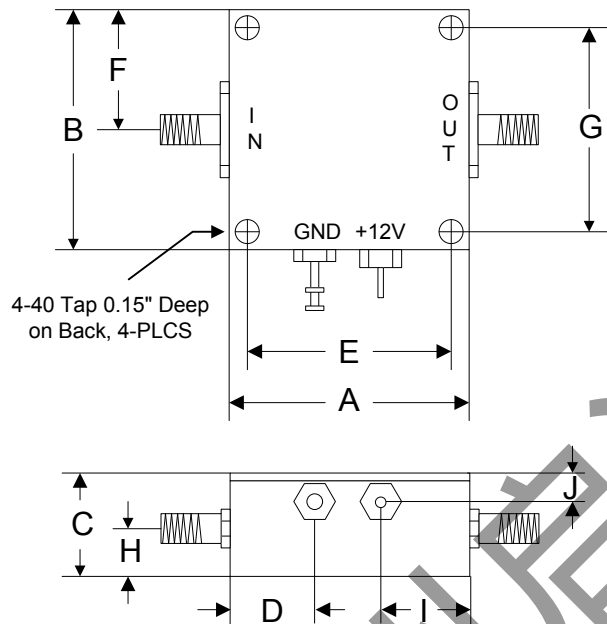
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+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