

LNA Series

350 – 1500MHz Low Noise Amplifier

Features

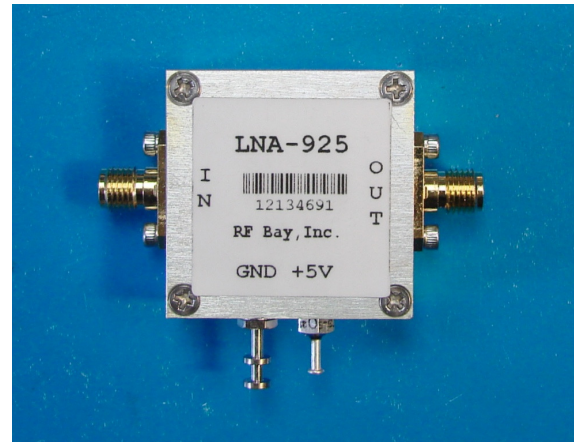
- Frequency Range: 350 – 1500MHz
- Gain: 30dB
- P_{1dB}: +22dBm
- IP3: +33dBm
- Noise Figure: 1dB (typ.)
- DC Power: 5V/160mA
- SMA-female connectorized

Performance measured @ 925MHz

Description

LNA-925 is a 1dB Noise Figure 30dB high gain Low Noise Amplifier operates with frequency range from 350MHz to 1500MHz.

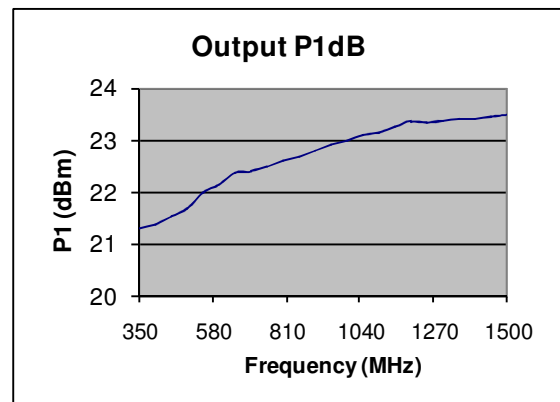
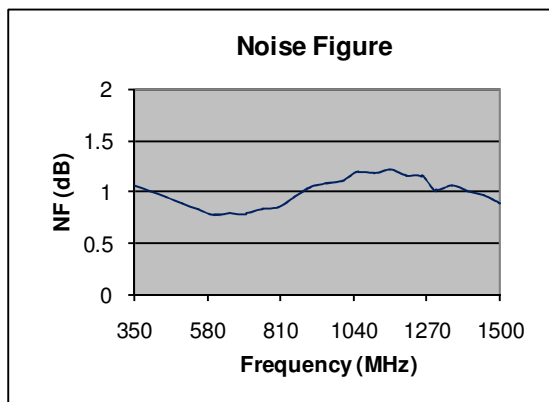
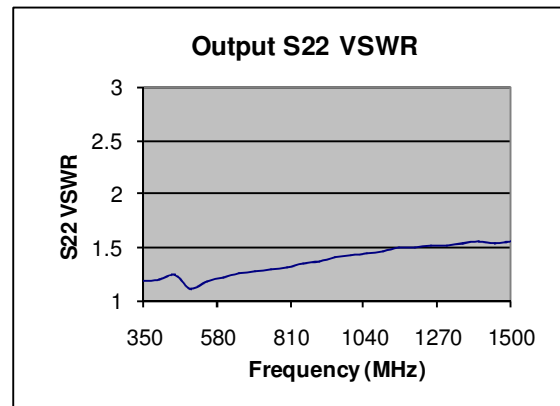
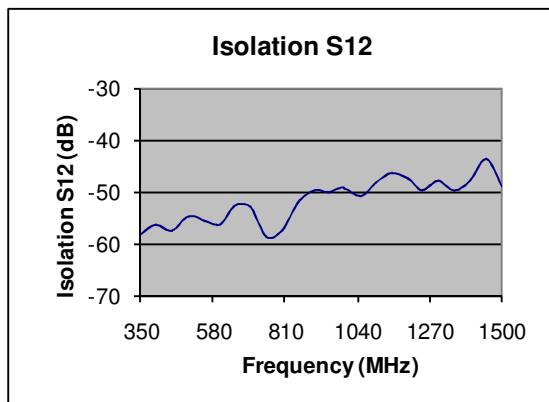
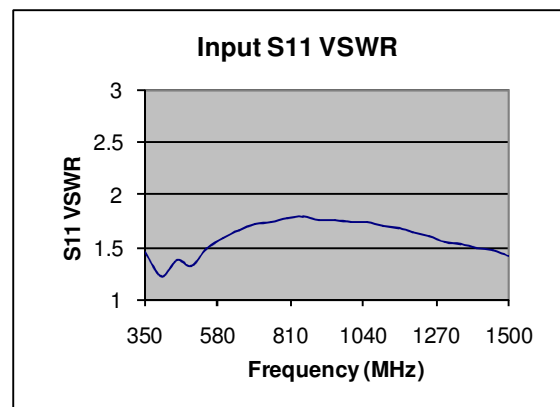
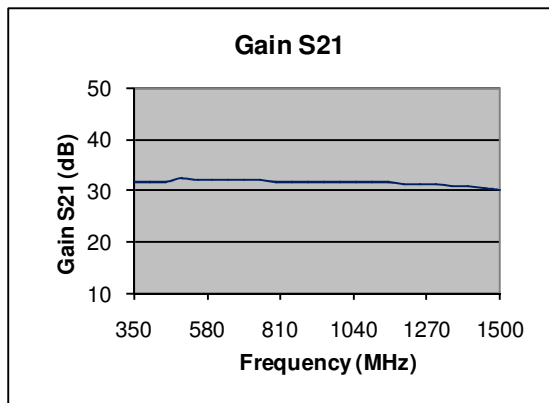
Picture



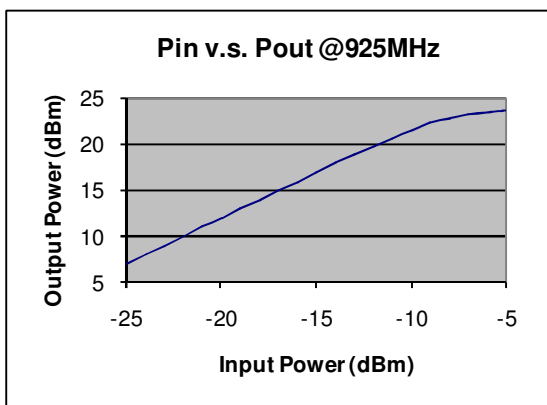
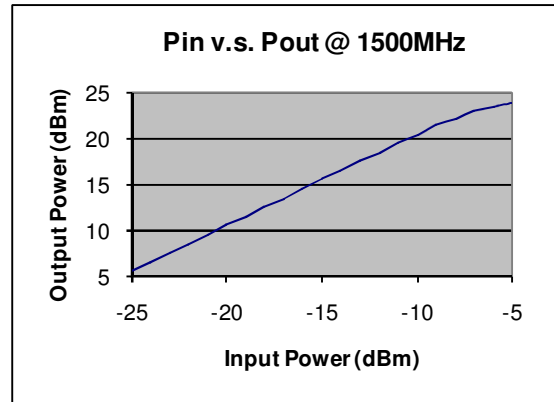
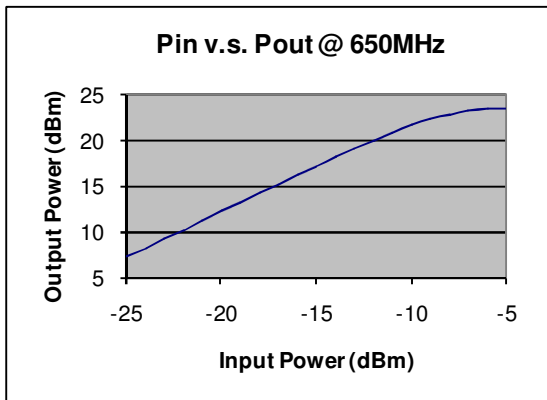
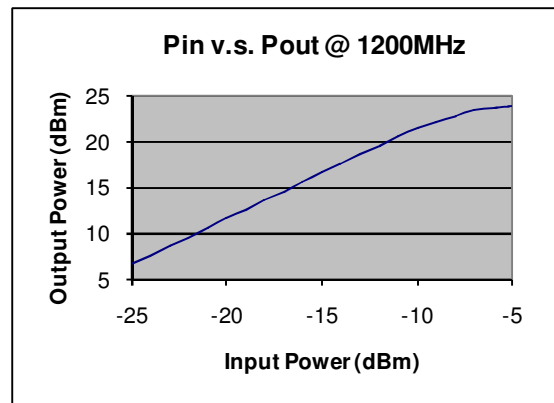
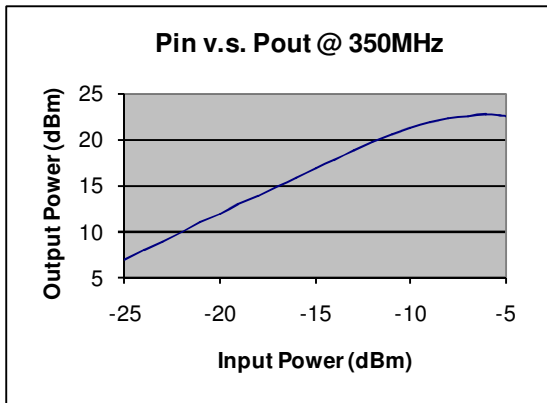
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ohm, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	350		1500
Gain (S ₂₁) f = 350MHz	dB		31.7	
f = 925MHz	dB	30.0	31.5	
f = 1500MHz	dB		30.0	
Output Power P _{1dB}	dBm		+22	
Output Third Order Intercept IP3	dBm		+33	
Noise Figure @925MHz	dB		1.0	1.2
Reverse Isolation (S ₁₂) @925MHz	dB		-49	
VSWR-Input (S ₁₁)	ratio:1	1.5@350MHz	1.8@925MHz	1.4@1500MHz
VSWR-Output (S ₂₂)	(unitless)	1.2@350MHz	1.4@925MHz	1.6@1500MHz
DC Power Supply - voltage	V	4.5	5	5.5
DC Power Supply - current	mA		160	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.25 (L) x 1.25 (W) x 0.56 (H)		
Weight	Oz	1.6 (45 grams)		

Typical Performance @ +25 °C



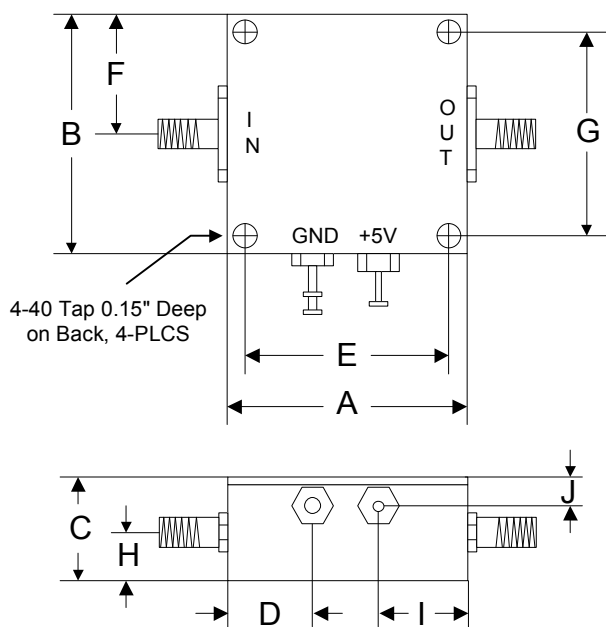
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
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