

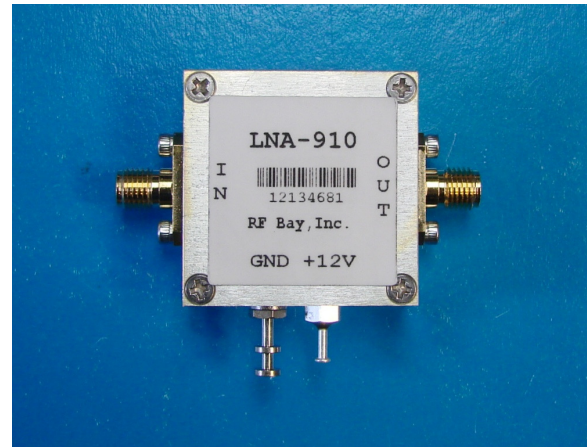
LNA Series

900 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 900 – 1000MHz
- Gain: 10dB
- P_{1dB}: +13dBm
- IP3: +27dBm
- Noise Figure: 0.7dB (typ.)
- DC Power: 9V to 24V
- Internally voltage regulated
- DC Power reverse protected
- SMA-female connectorized

Photo



Performance measured @ 950MHz

Description

LNA-910 is a 0.7dB Noise Figure Low Noise Amplifier operates with frequency range from 900 to 1000MHz.

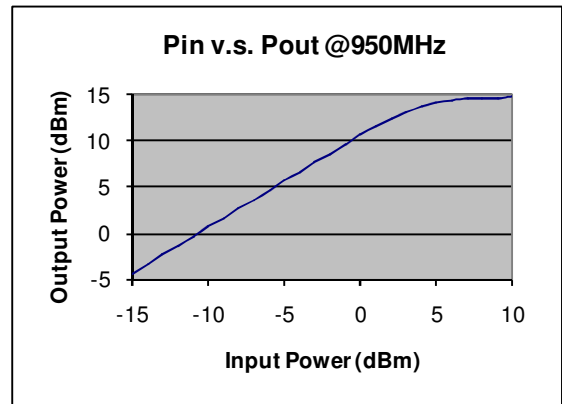
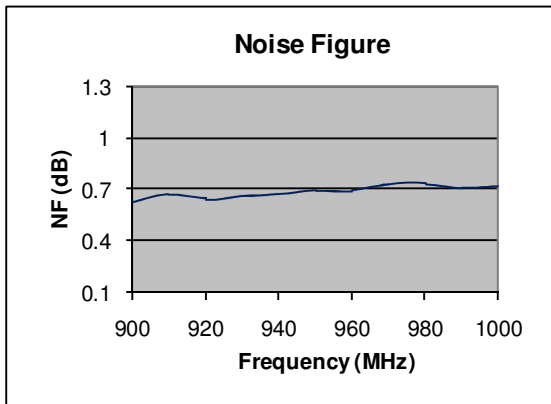
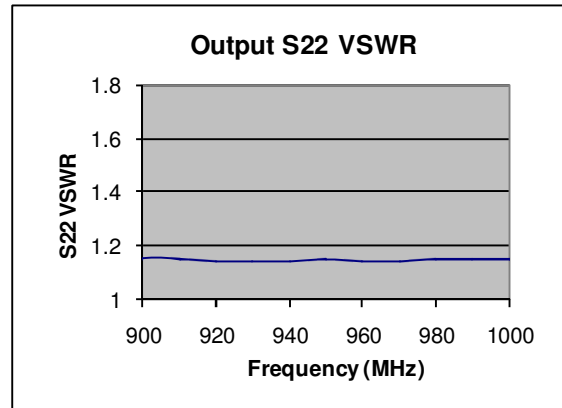
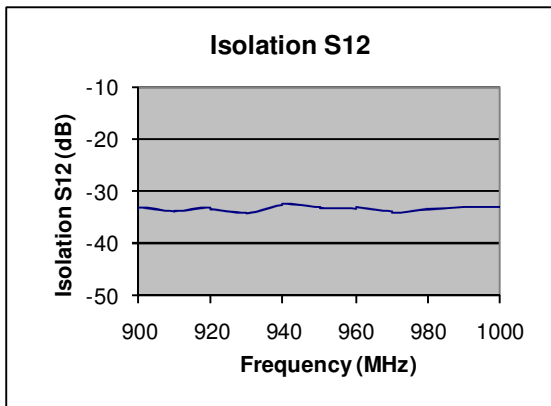
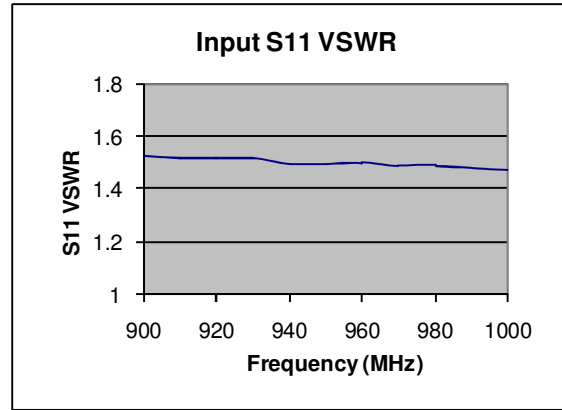
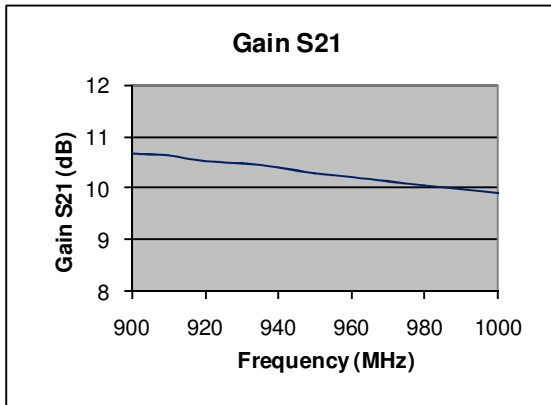
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ohm, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	900		1000
Gain (S21) f = 900MHz	dB		10.6	
f = 950MHz	dB		10.2	
f = 1000MHz	dB		9.9	
Output Power P _{1dB}	dBm		+13	
Output Third Order Intercept IP3	dBm		+27	
Noise Figure @950MHz	dB		0.7	0.8
Reverse Isolation (S12) @950MHz	dB		-33	
VSWR-Input (S11)	ratio:1	1.52@900MHz	1.50@950MHz	1.48@1000MHz
VSWR-Output (S22)	(unitless)	1.15@900MHz	1.15@950MHz	1.15@1000MHz
DC Power Supply - voltage	V	9	12	24
DC Power Supply - current	mA		76	85
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)		

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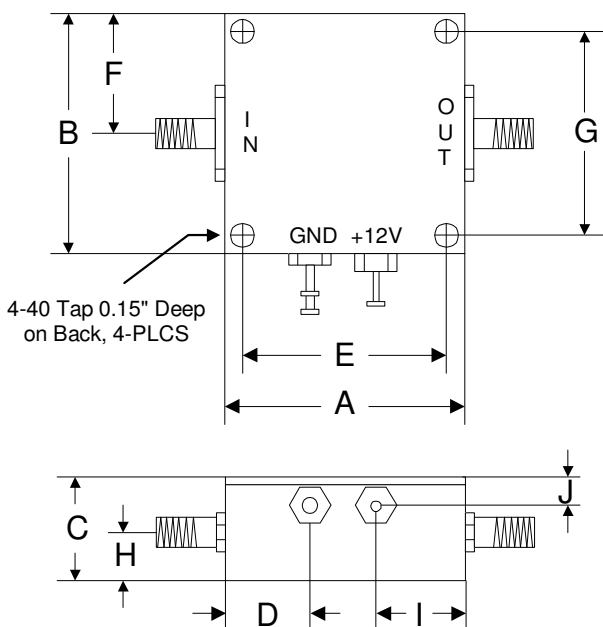
Typical Performance @+25 °C



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