

## LNA Series

## 300 – 2000MHz Low Noise Amplifier

### Features

- Frequency Range: 300 – 2000MHz
- Gain: 37dB
- P<sub>1dB</sub>: +20dBm
- IP3: +33dBm
- Noise Figure: 0.6dB (typ.)
- DC Power: 12V @ 150mA
- SMA-female connectorized

Performance measured @ 1150MHz

### Description

LNA-1150 is a 0.6dB Noise Figure Low Noise Amplifier operates with frequency range from 300 to 2000MHz.

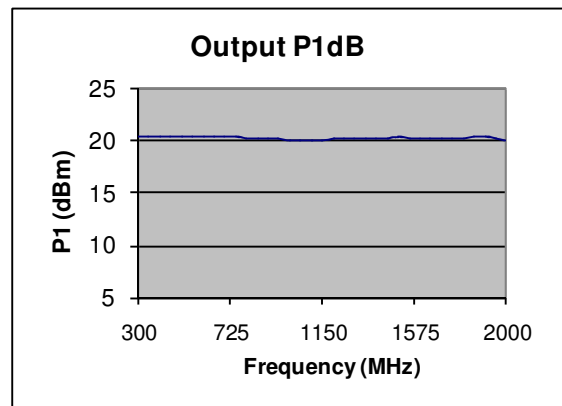
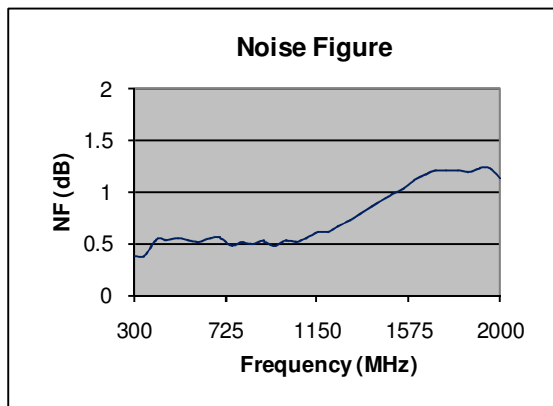
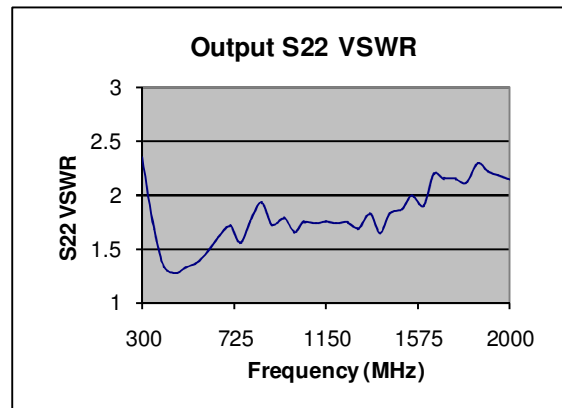
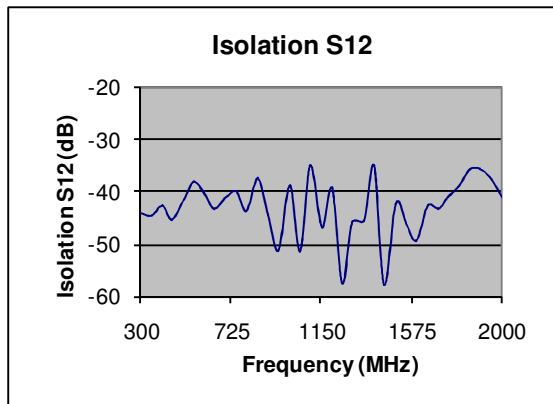
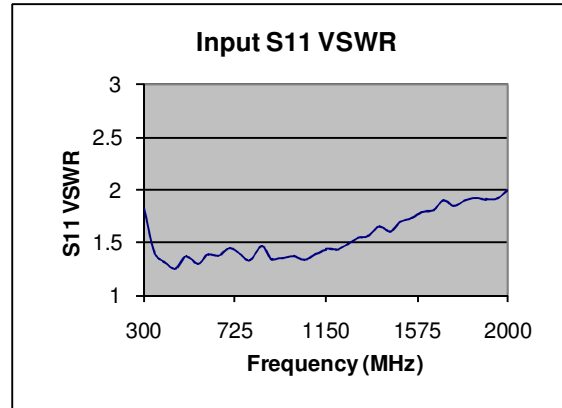
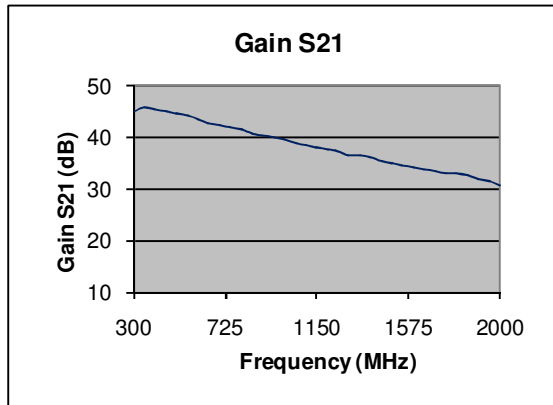
### Photo



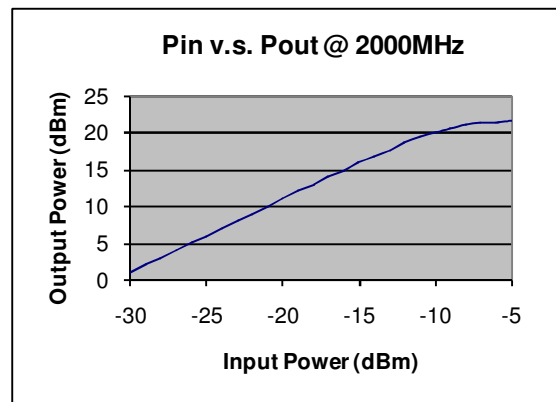
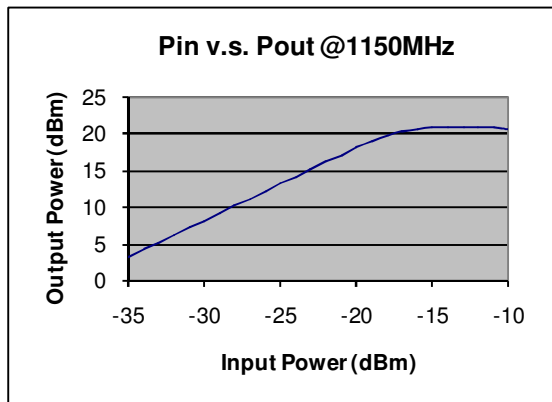
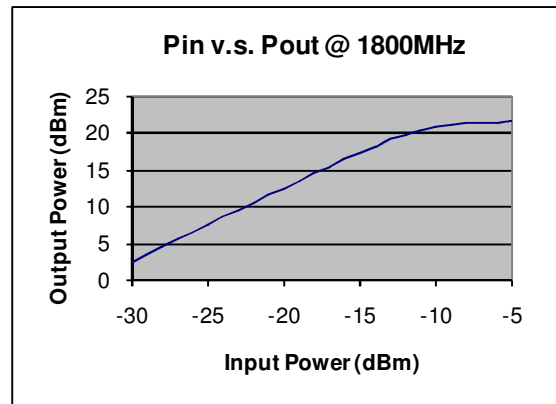
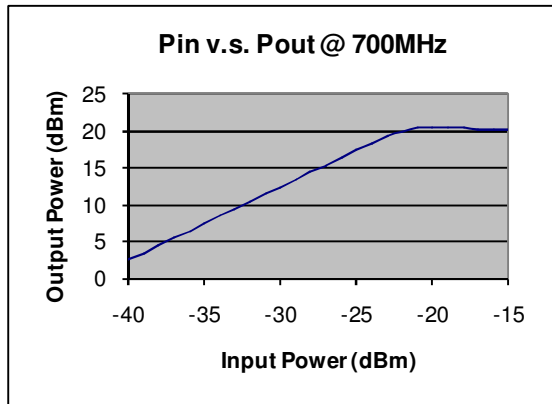
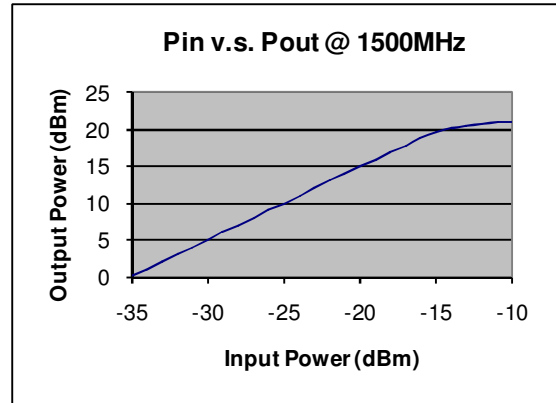
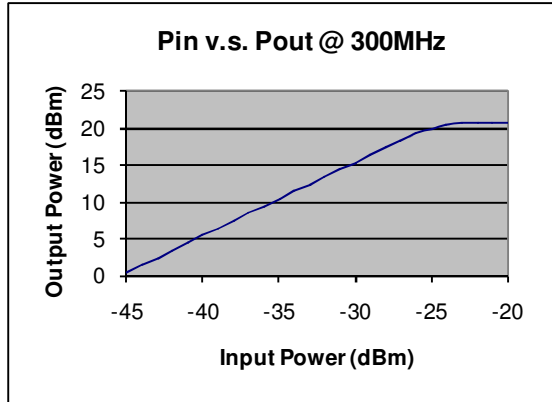
### Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ohm, V<sub>supply</sub> = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	300		2000
Gain (S21) f = 300MHz	dB		45	
f = 700MHz	dB		42	
f = 1150MHz	dB		37	
f = 1500MHz	dB		35	
f = 2000MHz	dB		30	
Output Power P <sub>1dB</sub>	dBm		+20	
Output Third Order Intercept IP3	dBm		+33	
Noise Figure @1150MHz	dB		0.6	0.8
Reverse Isolation (S12) @1150MHz	dB		-40	
VSWR-Input (S11)	ratio:1	1.9@300MHz	1.5@1150MHz	2.0@2000MHz
VSWR-Output (S22)	(unitless)	2.3@300MHz	1.8@1150MHz	2.2@2000MHz
DC Power Supply - voltage	V	11	12	18
DC Power Supply - current	mA		150	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



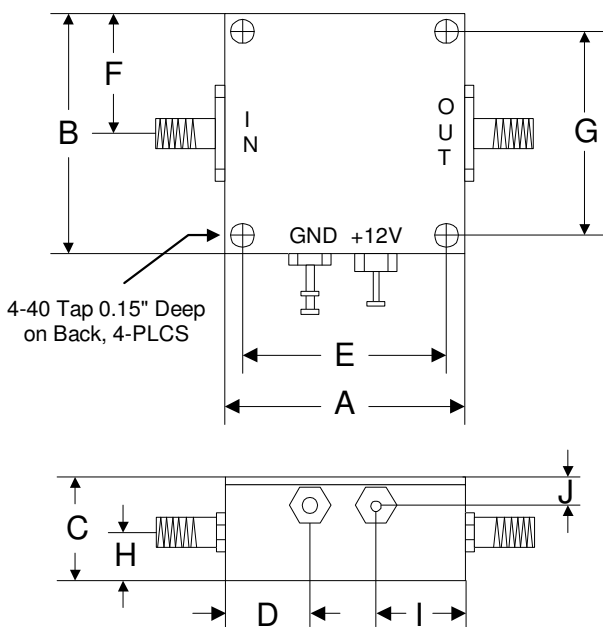
### Typical Performance @+25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+20V
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