

## LNA Series

## 1KHz – 1800MHz Low Noise Amplifier

### Features

- Frequency Range: 1KHz-1800MHz
- Gain: 30dB @ 1000MHz
- P<sub>1dB</sub>: +8dBm
- IP3: +20dBm
- Noise Figure: 2.2dB
- Reverse Voltage Protected
- SMA Connector

### Picture



Performance Measured @ 1000MHz

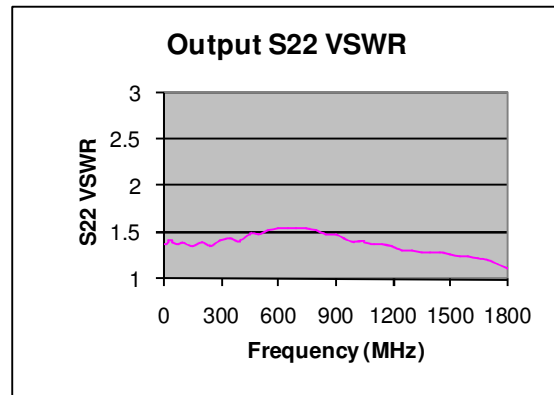
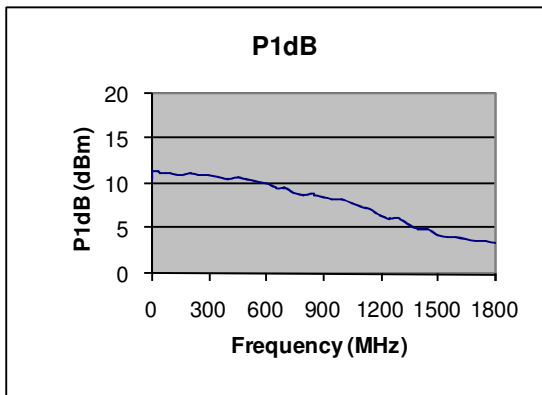
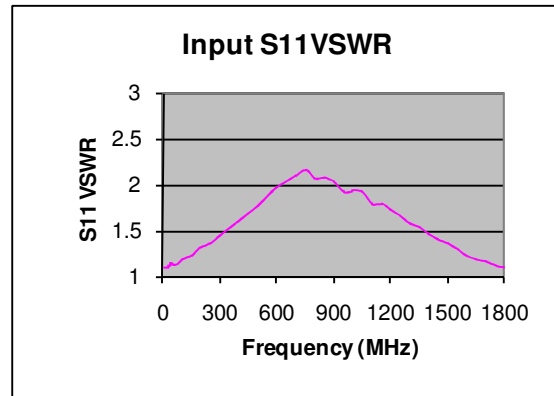
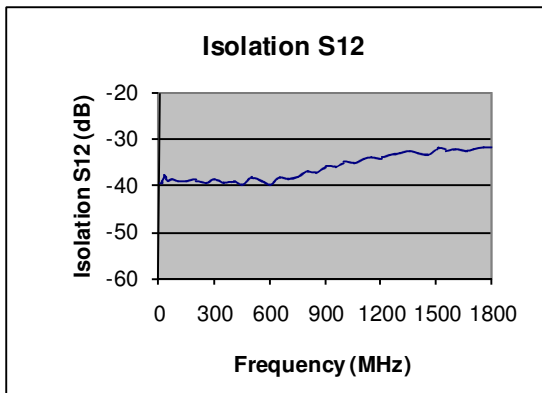
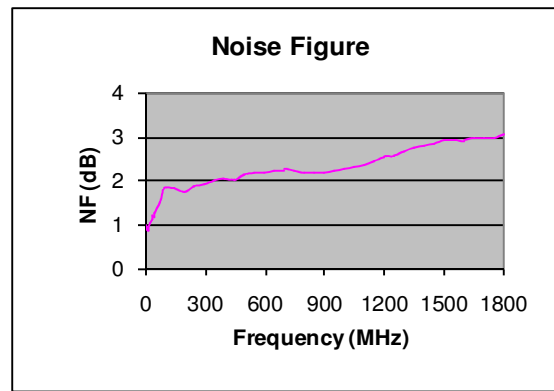
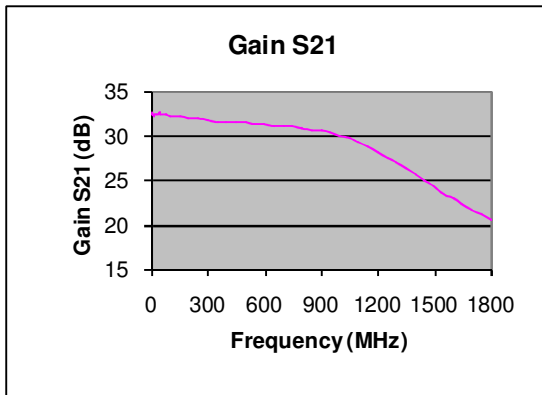
### Description

LNA-1800 is a 30dB gain wideband Low Noise Amplifier operates with frequency range from 1KHz to 1800MHz.

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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.001		1800
Gain				
f = 1KHz	dB		30.0	
f = 50KHz	dB		31.0	
f = 500KHz	dB		32.5	
f = 10MHz	dB		32.4	
f = 100MHz	dB		32.2	
f = 1000MHz	dB		30.0	
f = 1500MHz	dB		24.0	
f = 1800MHz	dB		20.5	
P <sub>1dB</sub>	dBm		+8	
IP3	dBm		+20	
Noise Figure	dB		2.2	
Reverse Isolation	dB		-35	
VSWR				
Input VSWR			1.9:1	
Output VSWR			1.4:1	
DC Power Supply	V	11	12	24
Supply Current	mA		40	

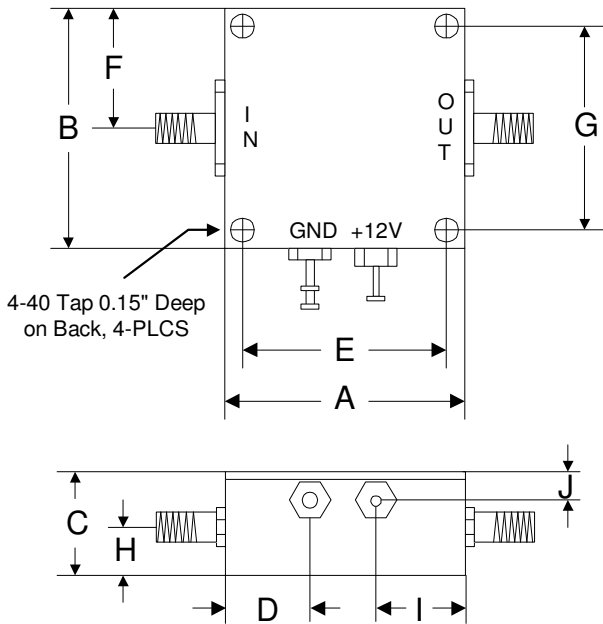
### Typical Performance @ +25 °C



### 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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76