

## LNA Series

## 10 – 500MHz Low Noise Amplifier

### Features

- Frequency Range: 10-500MHz
- Gain: 11dB
- P<sub>1dB</sub>: +17.5dBm
- IP3: +30dBm
- Noise Figure: 3.6dB
- DC Power: 12V
- SMA Connector

### Picture



Performance measured @ 500MHz

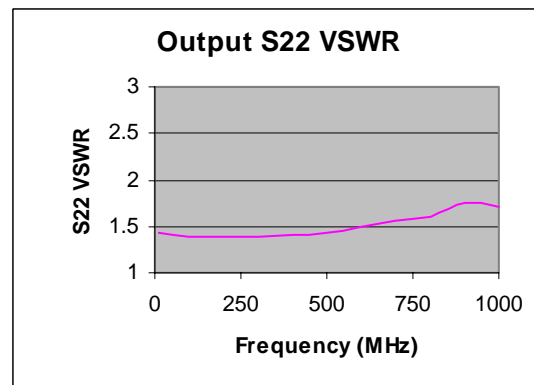
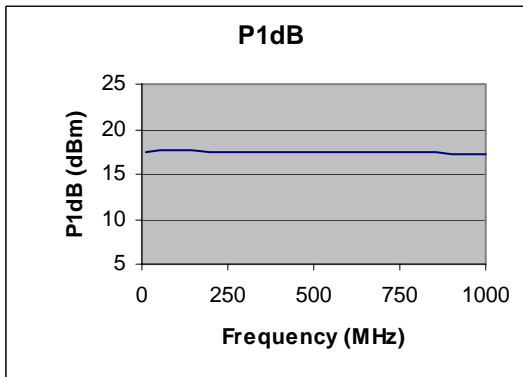
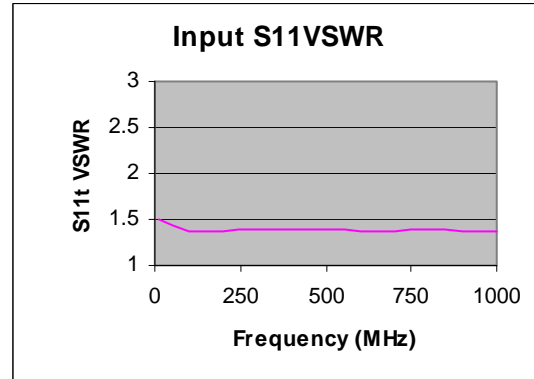
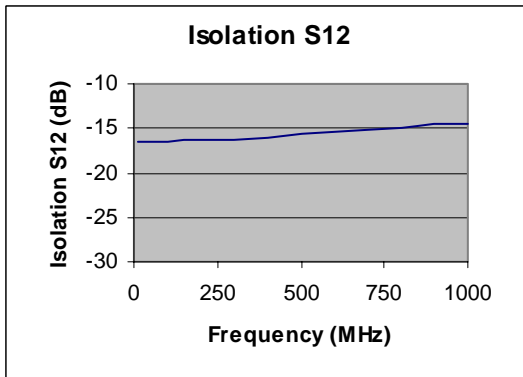
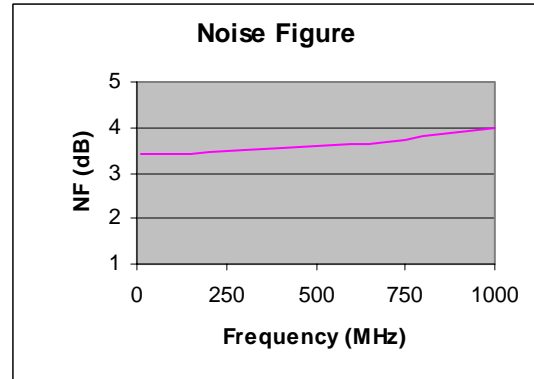
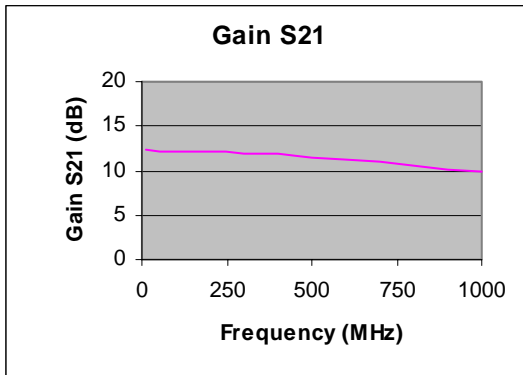
### Description

LNA-500H is a high dynamic wideband Low Noise Amplifier operates with frequency range from 10 to 500MHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		500
Gain f = 10MHz	dB		12.0	
f = 250MHz	dB		11.5	
f = 500MHz	dB		11.0	
P <sub>1dB</sub> f = 10MHz	dBm		+17.5	
f = 250MHz	dBm		+17.5	
f = 500MHz	dBm		+17.5	
IP3 f= 500MHz	dBm		+30.0	
Noise Figure f = 10MHz	dB		3.4	
f = 250MHz	dB		3.5	
f = 500MHz	dB		3.6	
VSWR f = 10-500MHz				
Input VSWR			1.5:1	
Output VSWR			1.7:1	
DC Power Supply	V	9	12	15
Supply Current	mA		60	

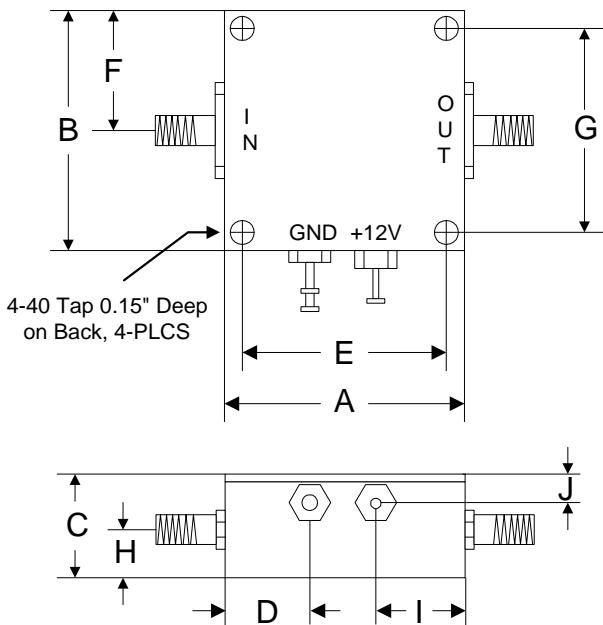
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+16V
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