

## LNA Series

## 4.5 – 6.0GHz Low Noise Amplifier

### Features

- Frequency Range: 4.5 – 6.0GHz
- Gain: 15dB
- P<sub>1dB</sub>: +18.4dBm
- IP3: +31.2dBm
- Noise Figure: 1.1dB
- DC Power: 5V/65mA
- SMA Connector

Performance measured @ 5.2GHz

### Description

LNA-4560 is a 1.1dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 4.5GHz to 6.0GHz.

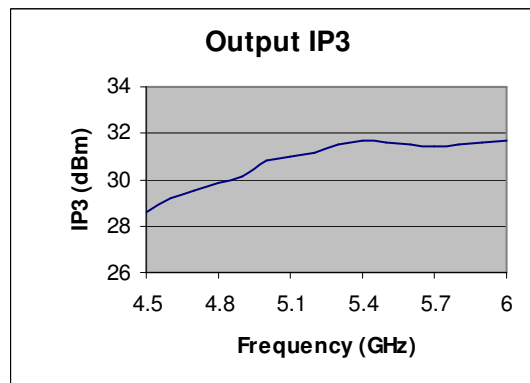
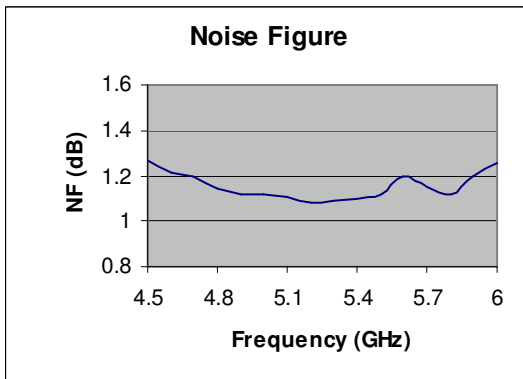
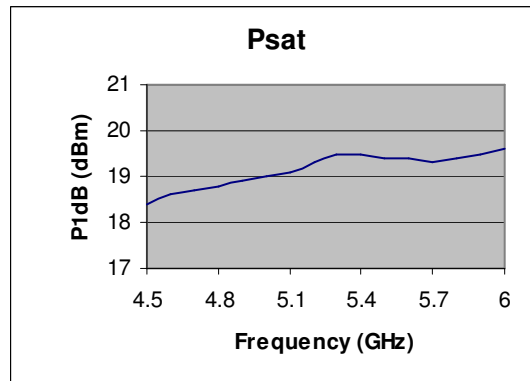
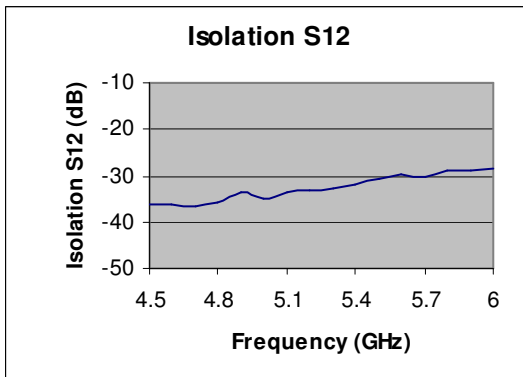
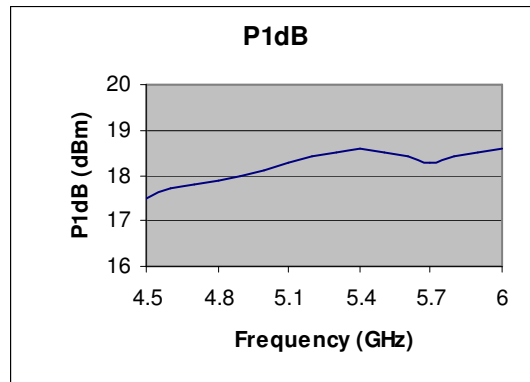
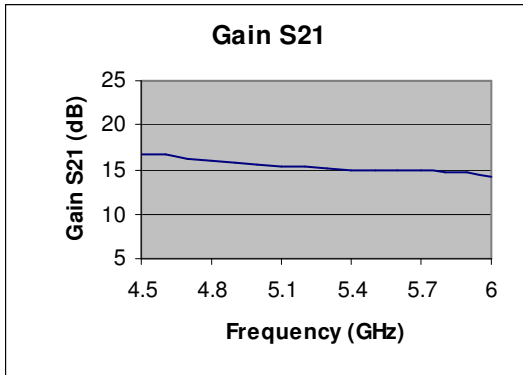
### Picture



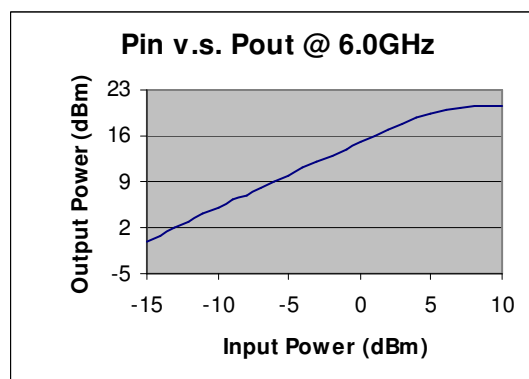
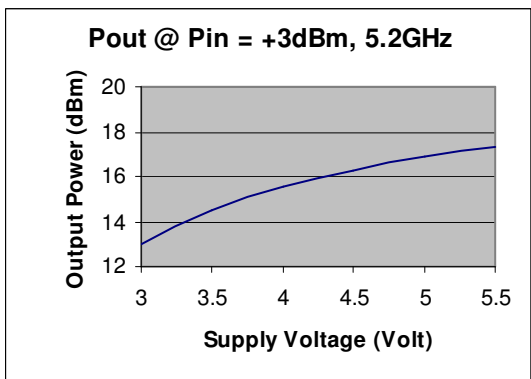
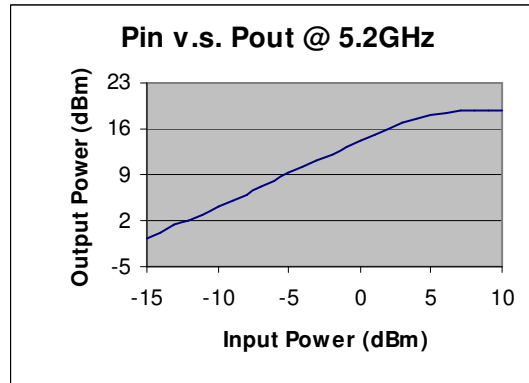
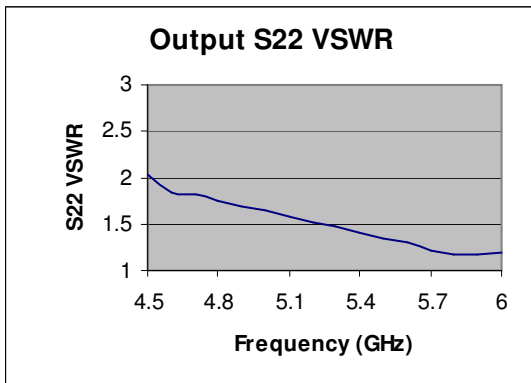
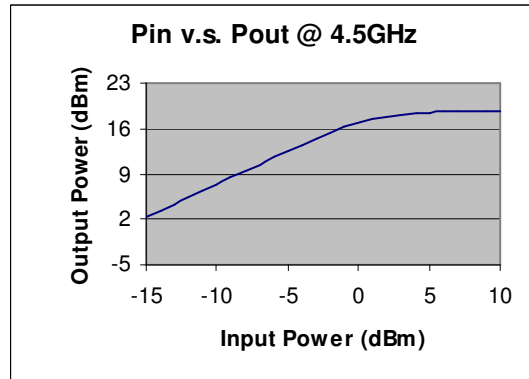
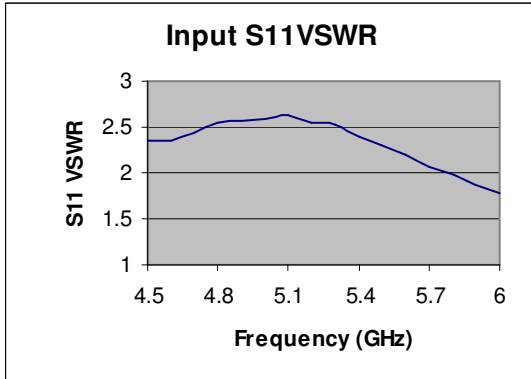
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4.5		6.0
Gain	f = 4.5GHz		16.5	
	f = 5.2GHz		15.0	
	f = 6.0GHz		14.0	
P <sub>1dB</sub>	f = 4.5GHz		+17.4	
	f = 5.2GHz		+18.4	
	f = 6.0GHz		+18.6	
IP3	f = 4.5GHz		+28.6	
	f = 5.2GHz		+31.2	
	f = 6.0GHz		+31.7	
Noise Figure	dB		1.1	
Reverse Isolation	dB		-33	
VSWR	Input VSWR		2.5:1	
	Output VSWR		1.5:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		70	

### Typical Performance @ +25 °C



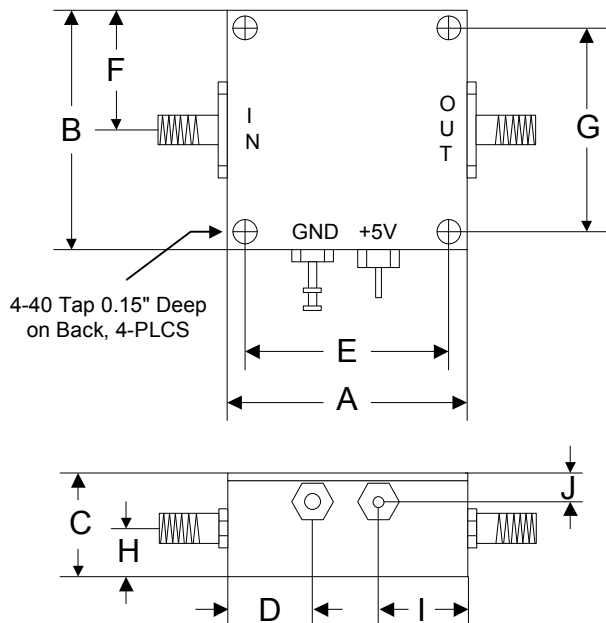
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
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