

LNA Series

4.5 – 6.0GHz Low Noise Amplifier

Features

- Frequency Range: 4.5 – 6.0GHz
- Gain: 15dB
- P_{1dB}: +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



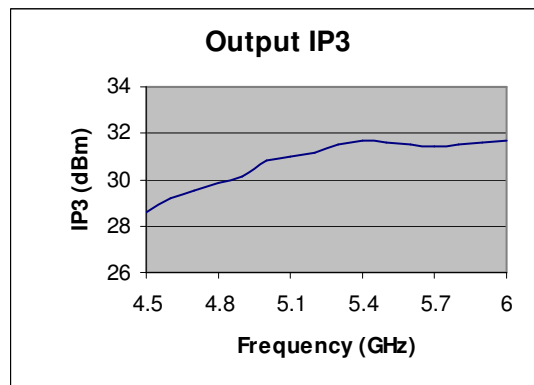
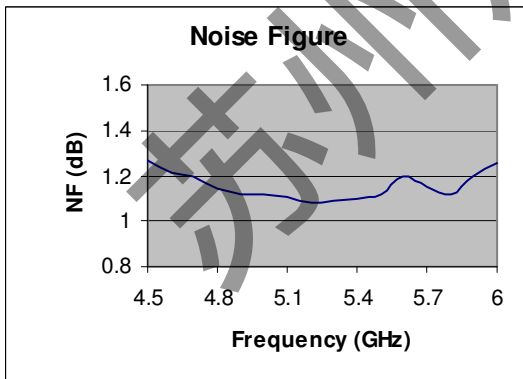
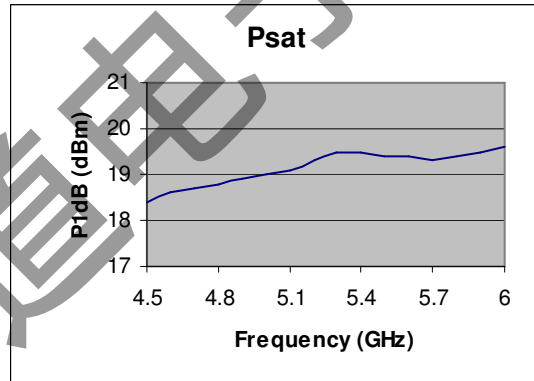
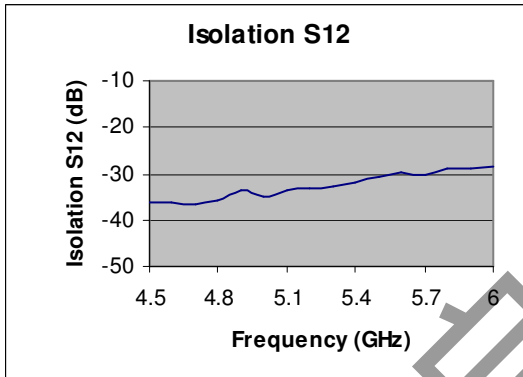
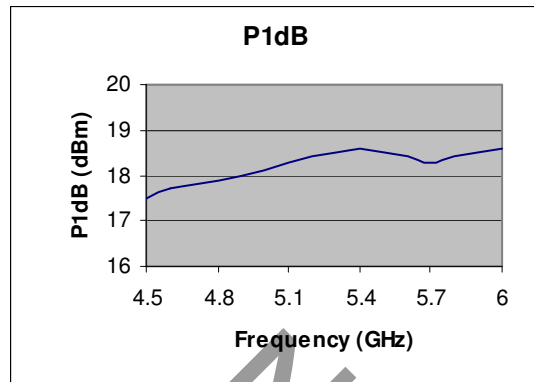
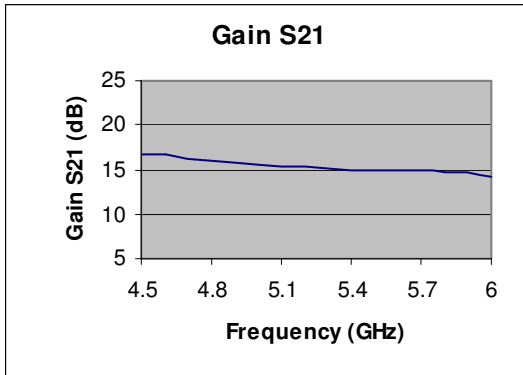
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

| Parameter | Unit | Minimum | Typical | Maximum |
|-------------------|-------------|---------|---------|---------|
| Frequency Range | GHz | 4.5 | | 6.0 |
| Gain | f = 4.5GHz | dB | 16.5 | |
| | f = 5.2GHz | dB | 15.0 | |
| | f = 6.0GHz | dB | 14.0 | |
| P _{1dB} | f = 4.5GHz | dBm | +17.4 | |
| | f = 5.2GHz | dBm | +18.4 | |
| | f = 6.0GHz | dBm | +18.6 | |
| IP3 | f = 4.5GHz | dBm | +28.6 | |
| | f = 5.2GHz | dBm | +31.2 | |
| | f = 6.0GHz | dBm | +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 | |

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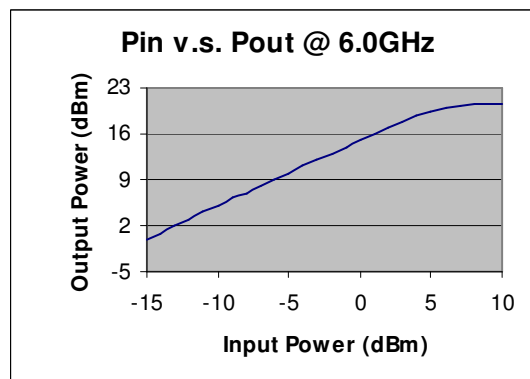
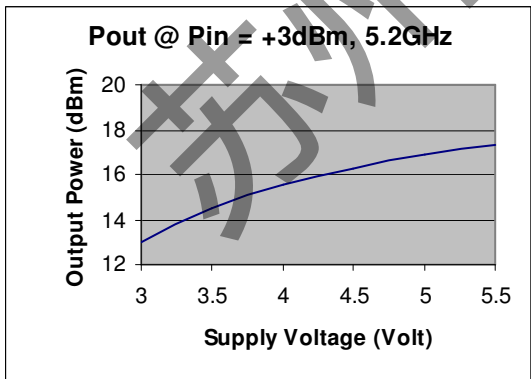
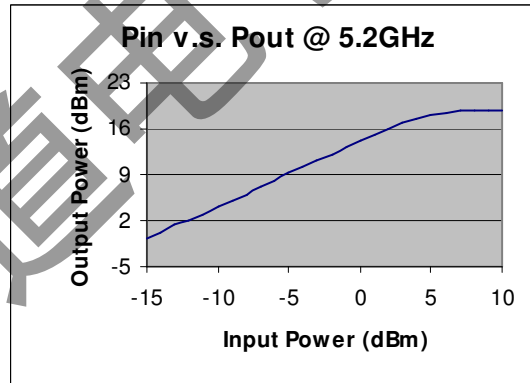
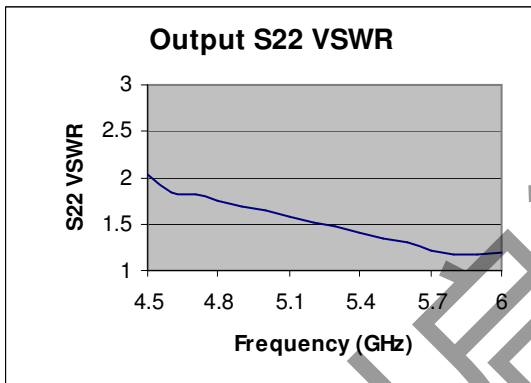
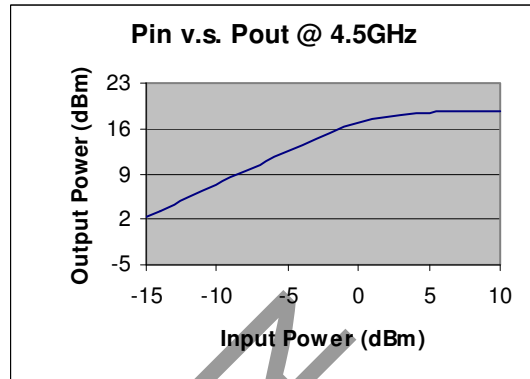
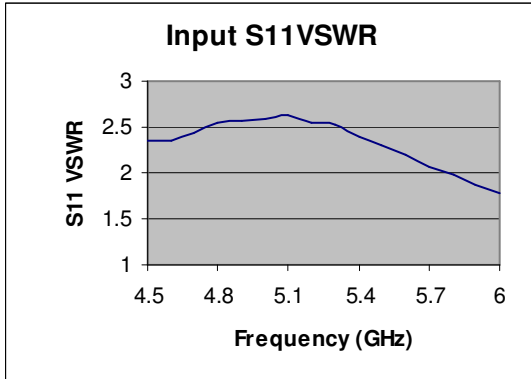
Typical Performance @ +25 °C



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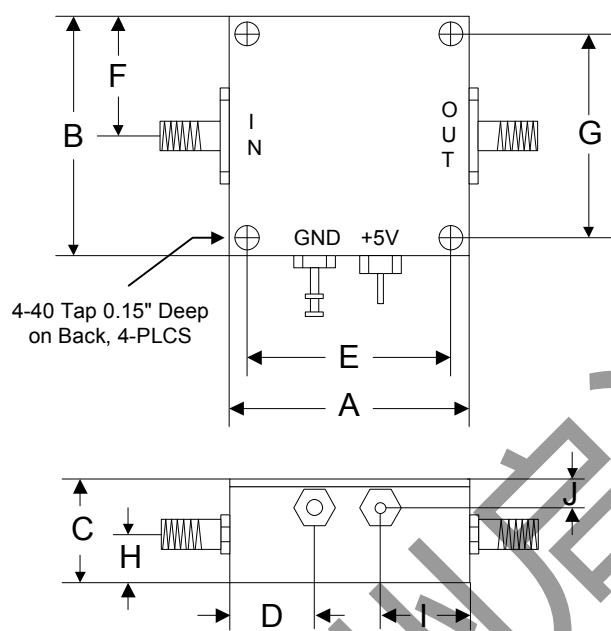
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Absolute Maximum Ratings

| 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 |