

LNA Series

200 – 500MHz Low Noise Amplifier

Features

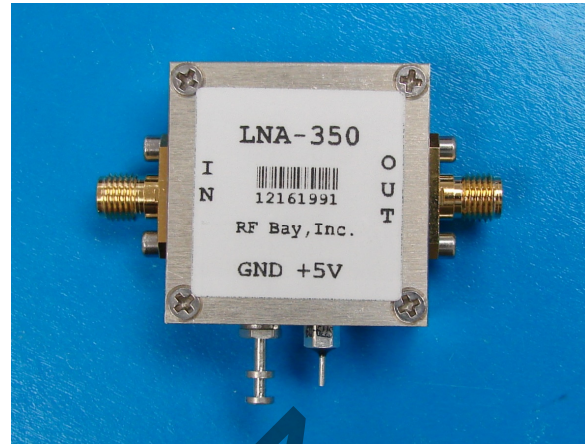
- Frequency Range: 200 - 500MHz
- Gain: 24dB
- P_{1dB}: +21dBm
- IP3: +34dBm
- Noise Figure: 0.6dB
- DC Power: 5V/80mA
- SMA Connector

Performance measured @ 350MHz

Description

LNA-350 is a 0.6dB Noise Figure Low Noise Amplifier operates in frequency range from 200MHz to 500MHz.

Picture



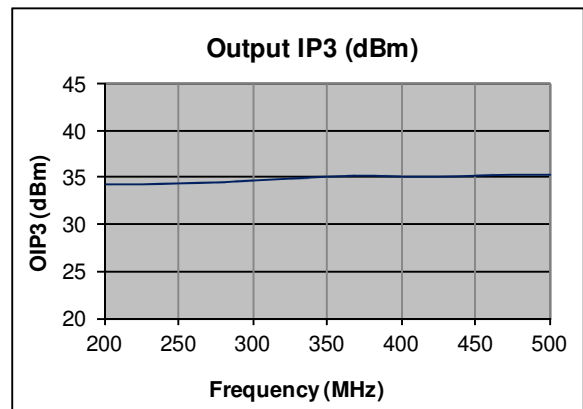
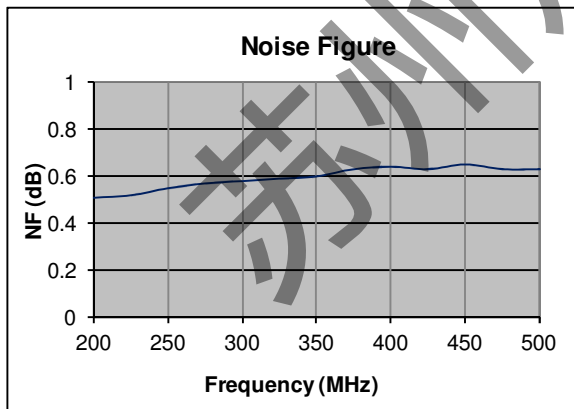
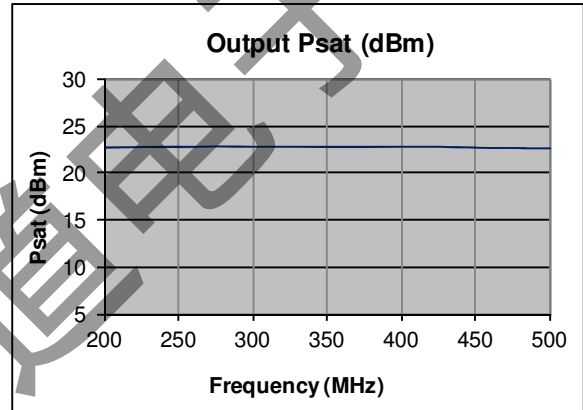
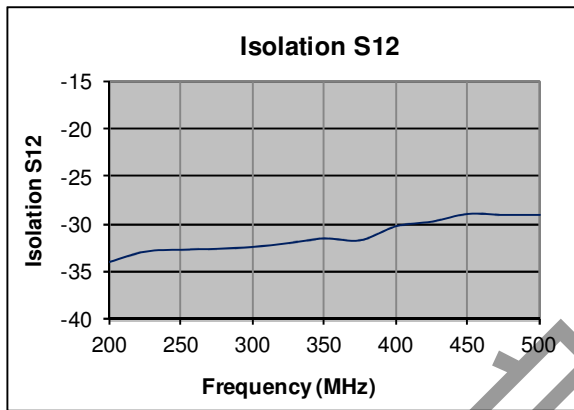
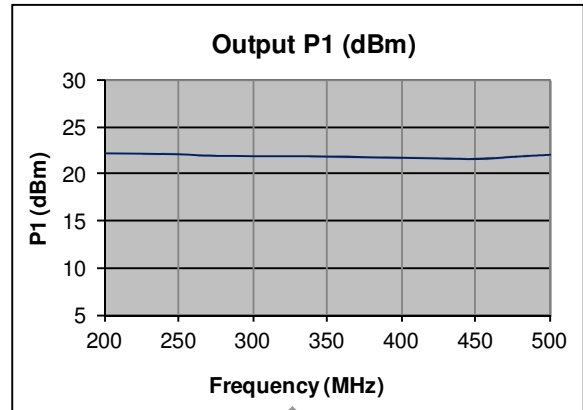
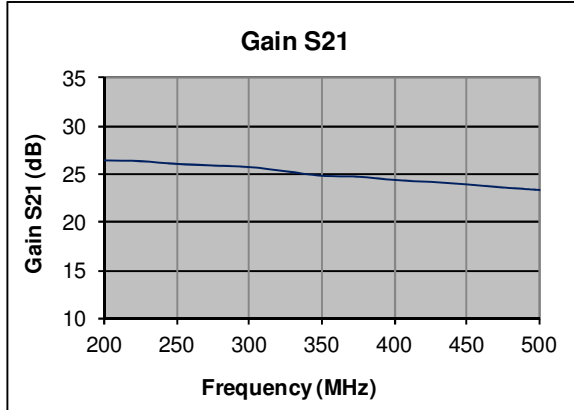
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

| Parameter | Unit | Minimum | Typical | Maximum |
|-------------------|------|---------|---------|---------|
| Frequency Range | MHz | 200 | | 500 |
| Gain | | | | |
| f = 200MHz | dB | | 26.0 | |
| f = 350MHz | dB | | 24.0 | |
| f = 500MHz | dB | | 23.0 | |
| Gain Flatness | dB | | ±1.7 | |
| P _{1dB} | dBm | | +21 | |
| IP3 | dBm | | +34 | |
| Noise Figure | dB | | 0.6 | |
| Reverse Isolation | dB | | -30 | |
| VSWR | | | | |
| Input VSWR | | | 2.2:1 | |
| Output VSWR | | | 1.6:1 | |
| DC Power Supply | V | 3 | 5 | 5.5 |
| Supply Current | mA | | 80 | |

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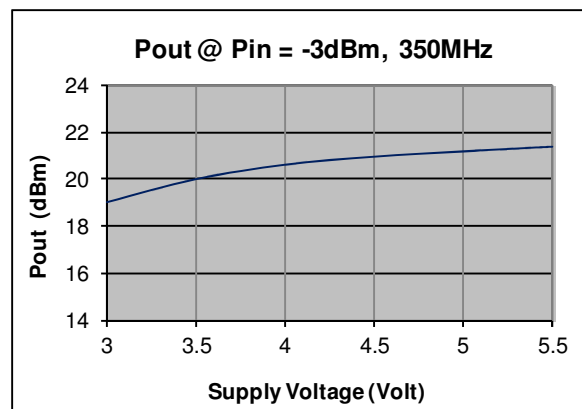
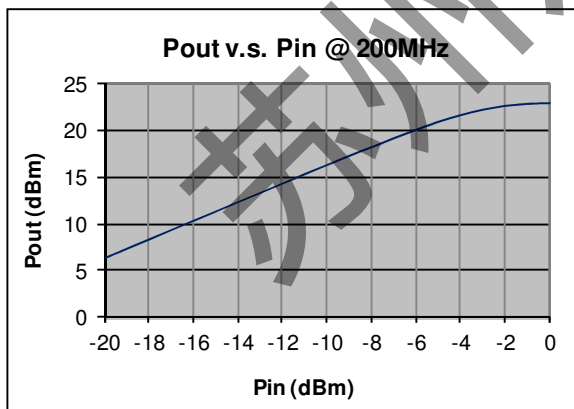
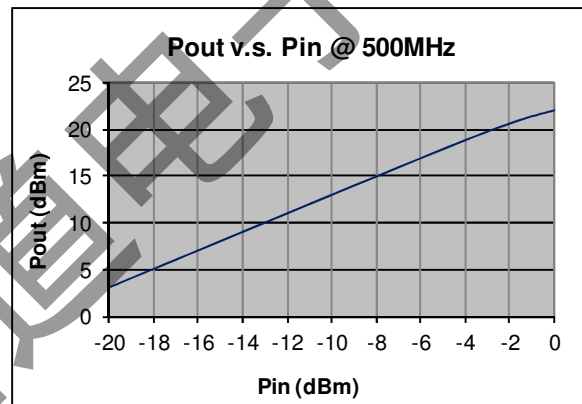
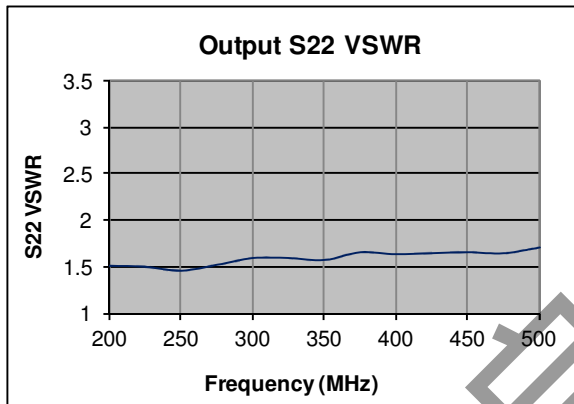
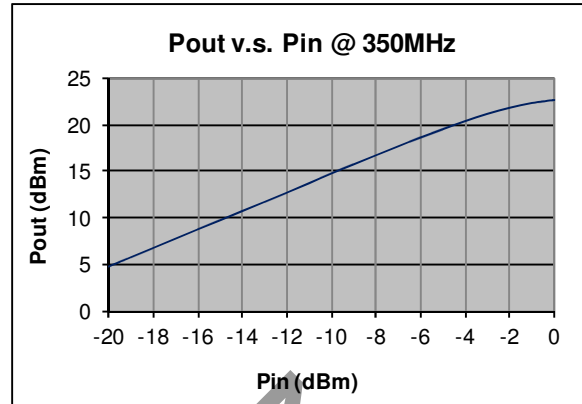
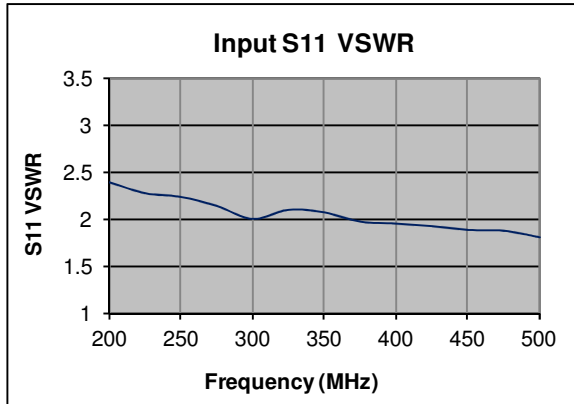
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



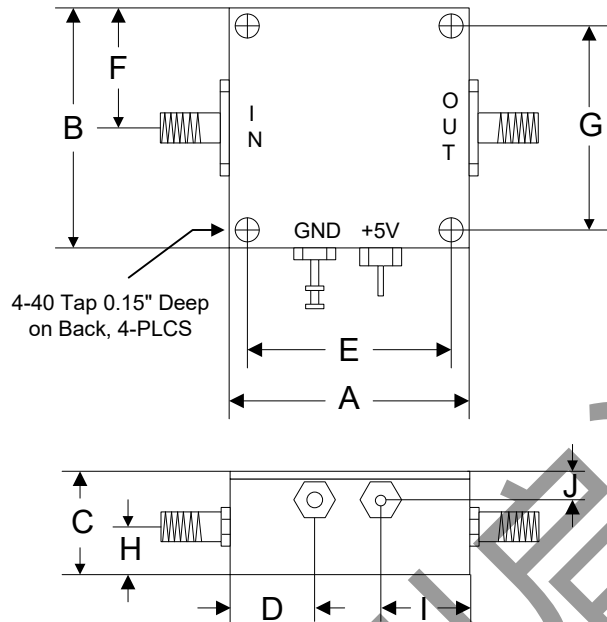
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Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +20dBm |
| 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 |