

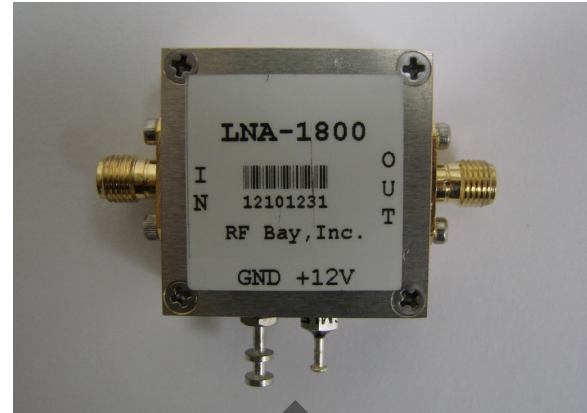
LNA Series

1KHz – 1800MHz Low Noise Amplifier

Features

- Frequency Range:1KHz-1800MHz
- Gain: 30dB @ 1000MHz
- P_{1dB}: +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.

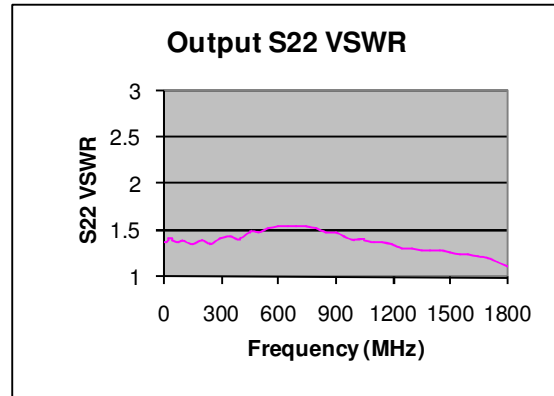
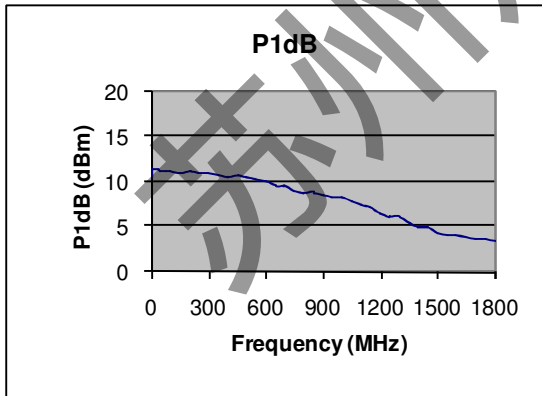
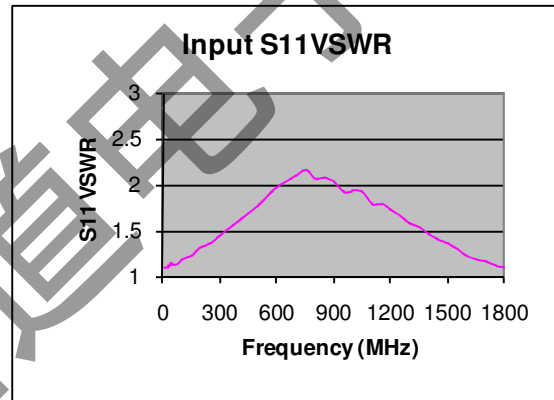
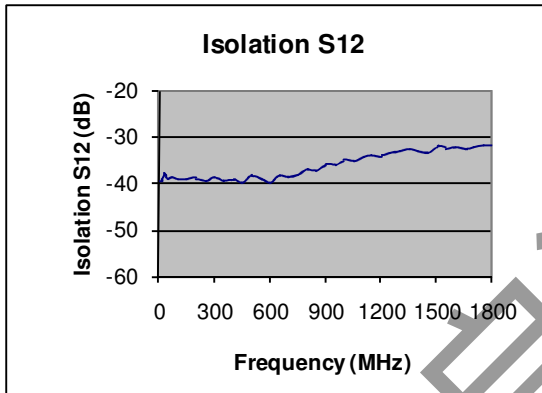
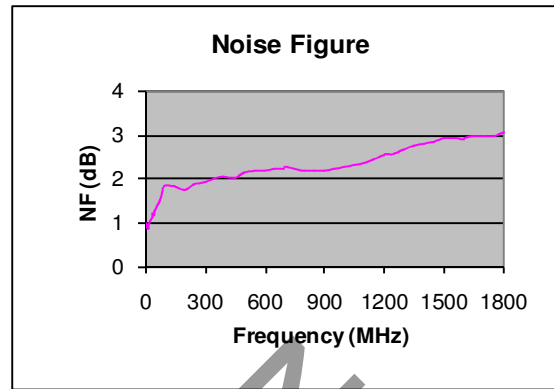
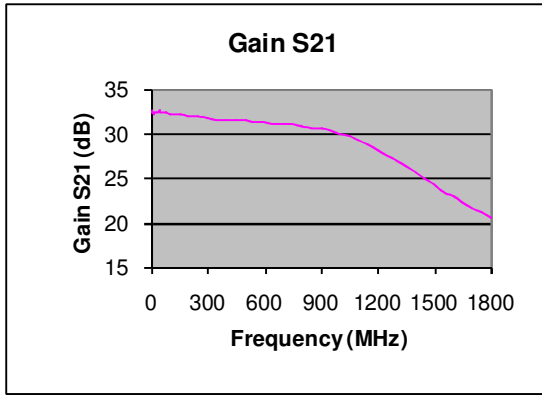
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +12V

| 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 _{1dB} | 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 | |

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Typical Performance @ +25 °C



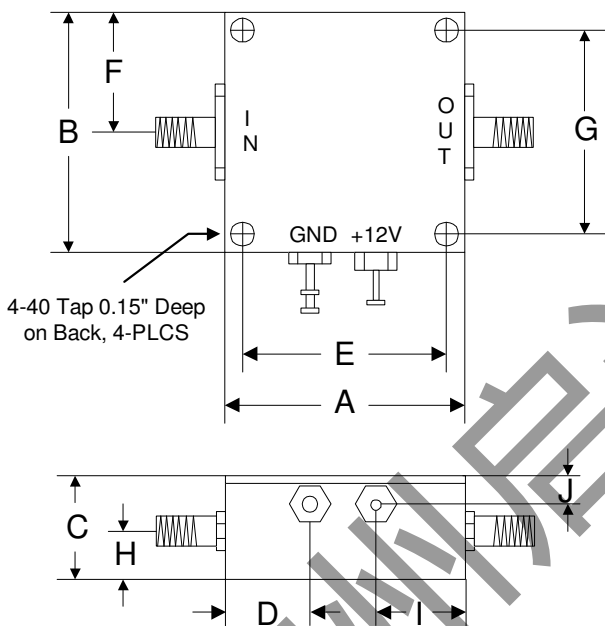
LNA Series

1KHz – 1800MHz Low Noise Amplifier

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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |