

LNA Series

50 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 50-1000MHz
- Gain: 45dB
- P_{1dB}: +22dBm
- IP3: +32dBm
- Noise Figure: 2.1dB
- DC Power: 12V
- SMA Connector

Performance measured @ 500MHz

Description

LNA-1045 is a 45dB gain wideband high dynamic range Low Noise Amplifier operates with frequency range from 50 to 1000MHz.

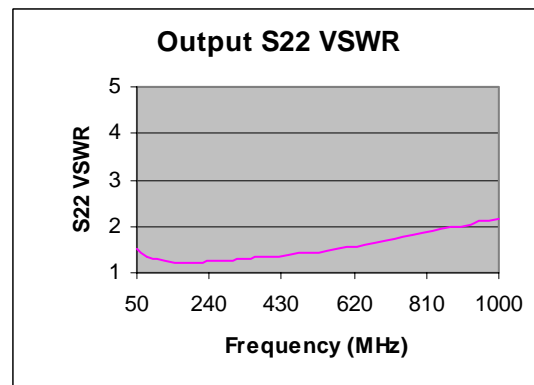
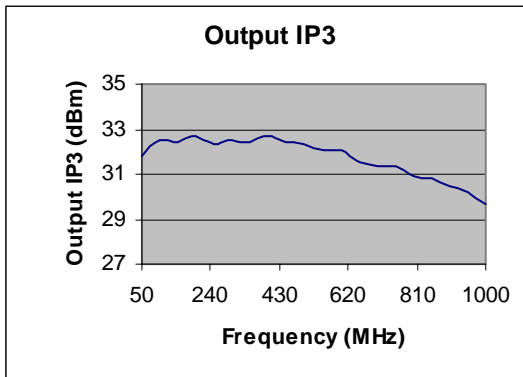
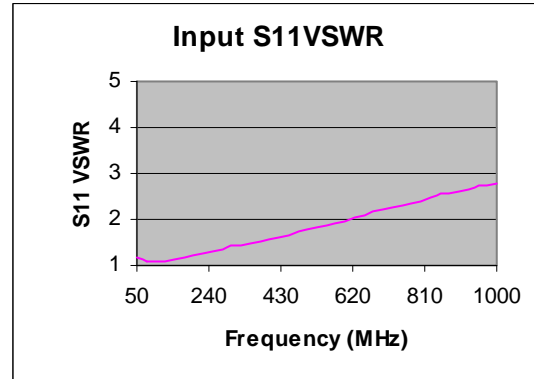
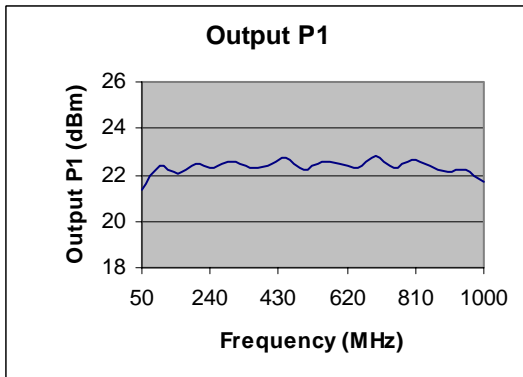
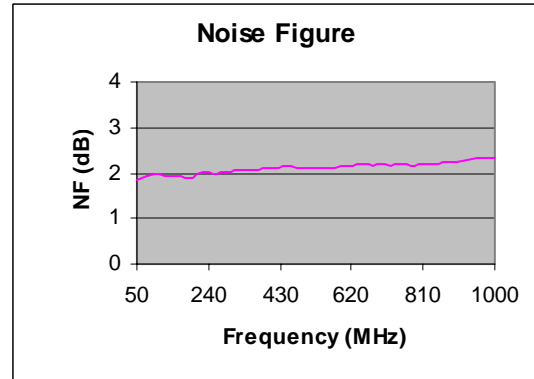
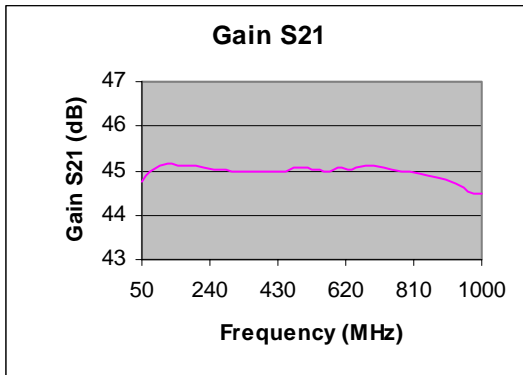
Picture



Electrical Specifications @ +25 °C

| Parameter | Unit | Minimum | Typical | Maximum |
|-------------------|------|---------|---------|---------|
| Frequency Range | MHz | 50 | | 1000 |
| Gain | | | | |
| f = 50MHz | dB | | 45 | |
| f = 500MHz | dB | | 45 | |
| f = 1000MHz | dB | | 44 | |
| P _{1dB} | dBm | | +22 | |
| IP3 | dBm | | +32 | |
| Noise Figure | dB | | 2.1 | |
| Reverse Isolation | dB | | -50 | |
| VSWR | | | | |
| Input VSWR | | | 1.8:1 | |
| Output VSWR | | | 1.5:1 | |
| DC Power Supply | V | 10 | 12 | 15 |
| Supply Current | mA | | 140 | |

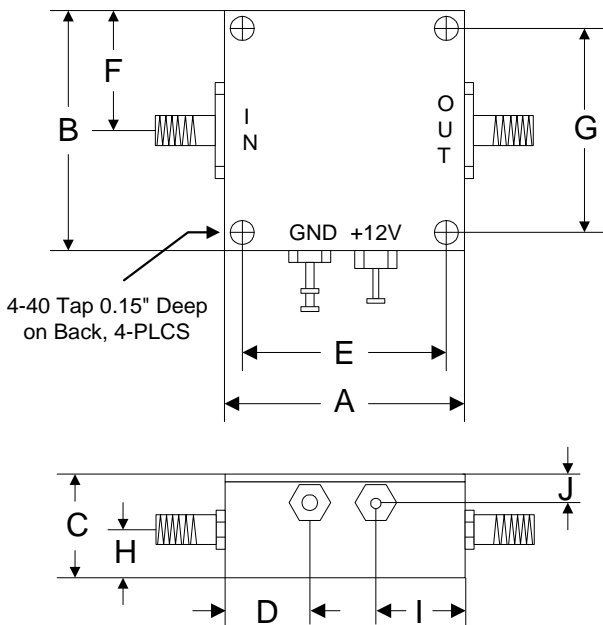
Typical Performance @ +25 °C



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