

100 MHz to 4 Ghz Low Noise Amplifier

Coaxial Low Noise Amplifier with a frequency range from 100 MHz to 4 GHz, with an impressive broadband typical 1.1 dB noise figure, 33 dB small signal gain, +15 dBm P1dB.. This low noise amplifier requires a +12V DC power supply, and can operate over a temperature range of -40°C to +85°C. Connectors are SMA Female. The LNA is compact and rugged and able to sustain extreme environmental conditions.

Features

- Low Noise Figure
- Reverse Polarity Protection
- 100 MHz to 4 GHz Frequency Range

Applications

- Test & Measurement
- R&D Labs
- General Purpose Amplification
- Aerospace & Defense
- Wireless Infrastructure
- Communication Systems



Electrical Specifications

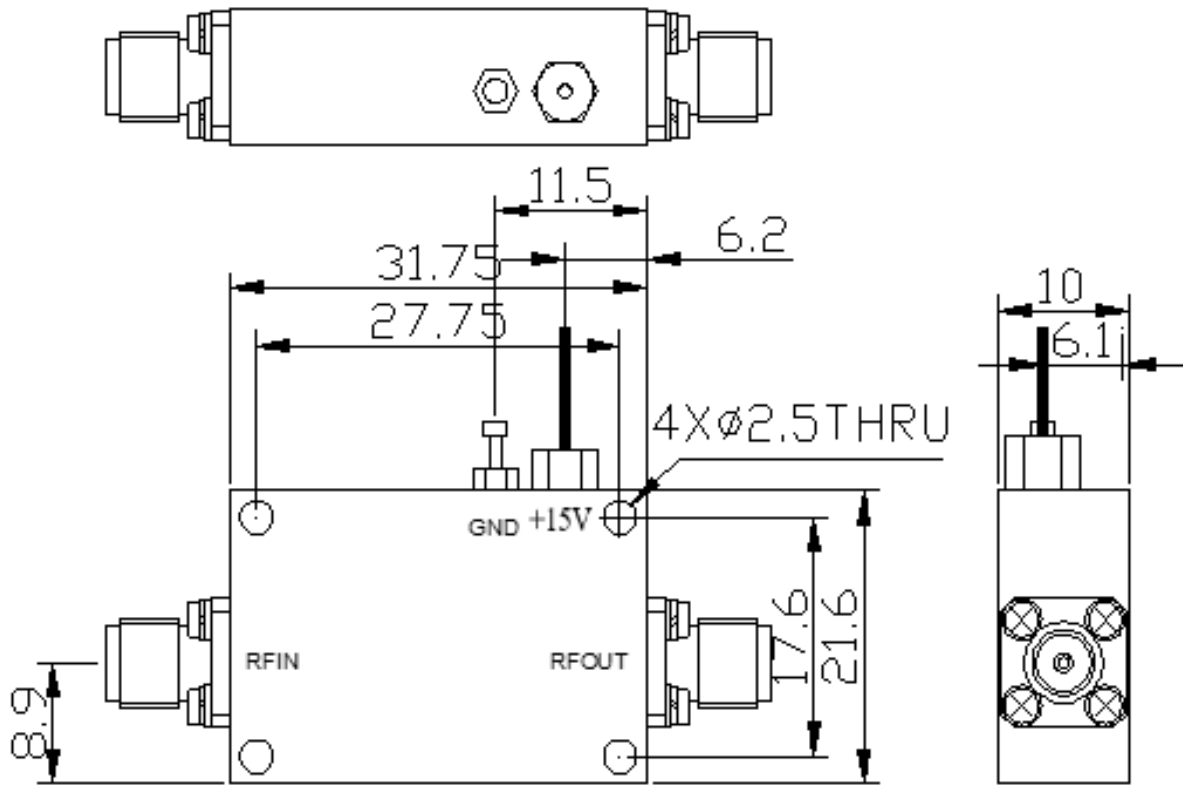
Description	Minimum	Typical	Maximum	Units
Frequency Range	0.1GHz		4GHz	
VSWR IN		1.3	2.0	
VSWR OUT		1.3	2.0	
Small Signal Gain	30	36	40	dB
Gain Flatness		±0.5	±1.5	dB
Noise Figure		1.1	1.3	dB
Output at 1 dB Compression Point	10	15		dBm
Output 3rd Intercept Point		28		dBm
DC Power Supply @ +12 Volts		110	200	mA

Absolute Maximum Ratings

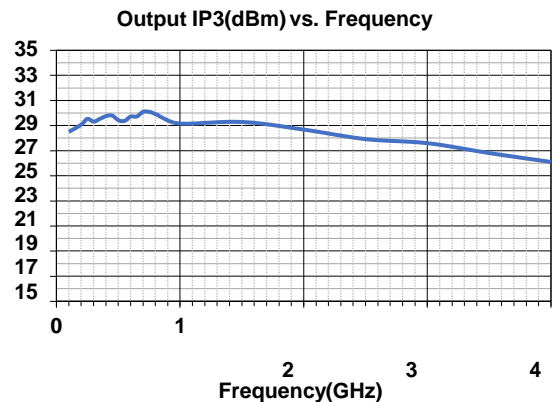
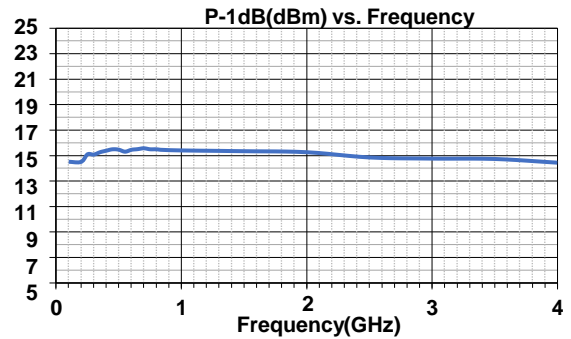
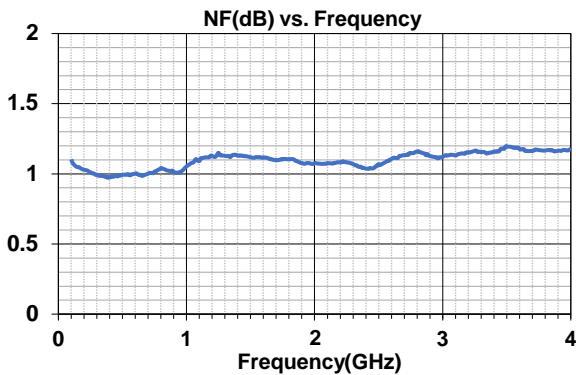
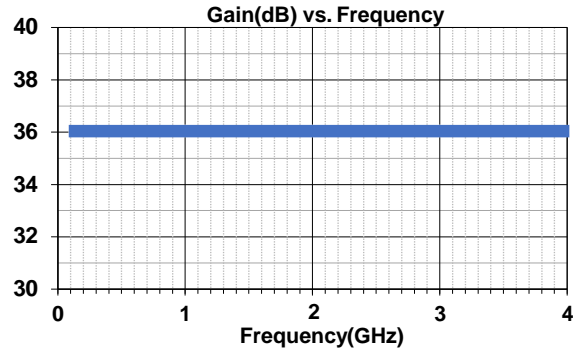
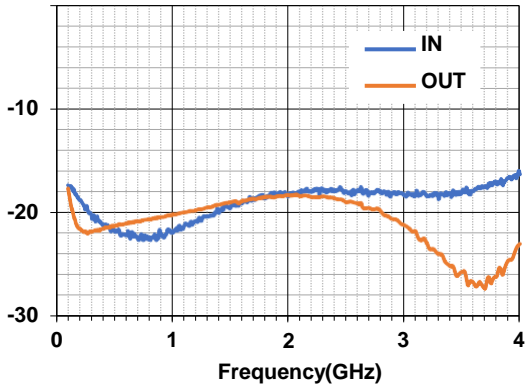
Storage Temperature
Operating Temperature
V+
Max Input Power

Outline Drawing (all dimensions are in millimeters)

Outline Drawing



Typical Performance Data



Note:

All data presented is collected from a sample lot. Actual data may vary unit to unit.

All testing was performed under +25°C case temperature.

Caution:

Exceeding absolute maximum ratings shown will damage the device.

The device is static sensitive. Always follow ESD rules when working with the device.

The case temperature of the device shall never exceed +50°C. Use proper heatsink or fan if necessary.

Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm).