

15 to 27 GHz Low Noise Amplifier

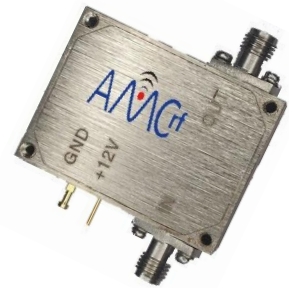
Coaxial Low Noise Amplifier with a frequency range from 15 GHz to 27 GHz, with an impressive broadband typical 2.5 dB noise figure, 41dB small signal gain, +28 dBm P1dB.. This low noise amplifier requires a +12 - 18V DC power supply and can operate over a temperature range of -40°C to +85°C. Connectors are SMA Female. The LNA is compact and rugged and able to sustain extreme environmental conditions.

Features

- Low Noise Figure
- 15 GHz to 27 GHz Frequency Range
- High Output 1 dB Compression Point

Applications

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



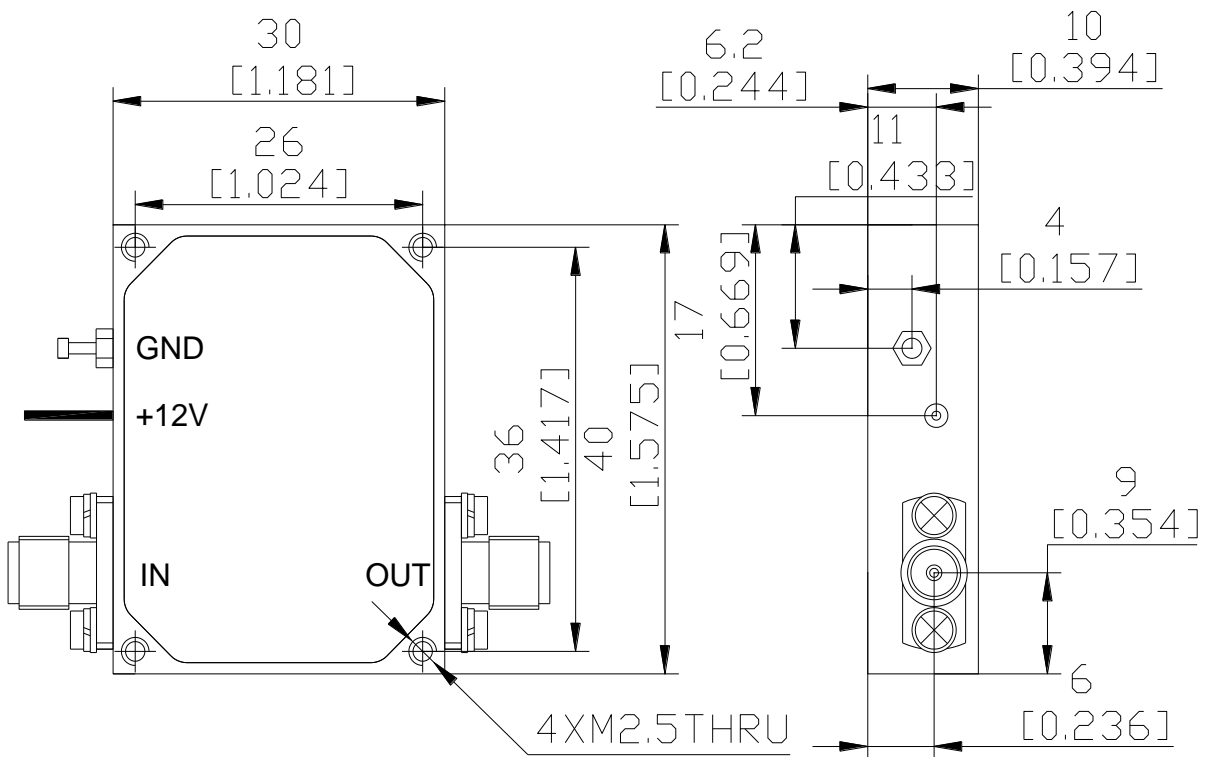
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	15GHz		27GHz	
VSWR IN		1.8	2.3	
VSWR OUT		2.0		
Small Signal Gain	31	41		dB
Gain Variation Over Temperature		±1		dB
Gain Flatness		±2		dB
Noise Figure		2.5	3.5	dB
Output at 1 dB Compression Point	25	28		dBm
Saturated Output Power (Psat)		30		dBm
Output 3rd Intercept Point		36		dBm
Reverse Isolation	-55	-65		dB
DC Power Supply @ +12 Volts		450	500	mA

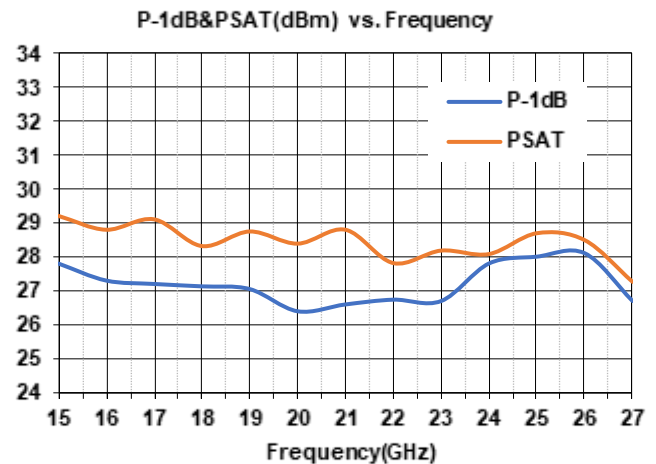
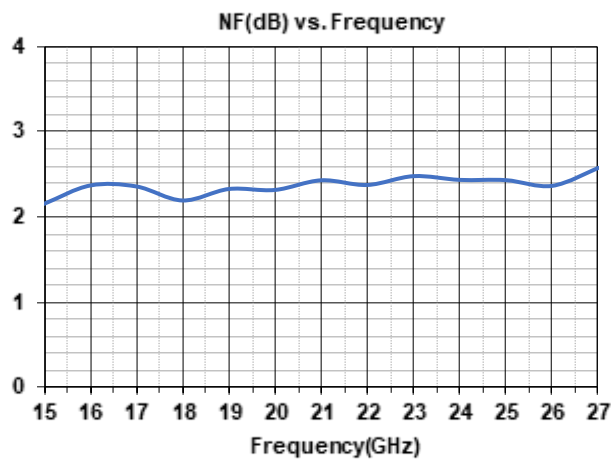
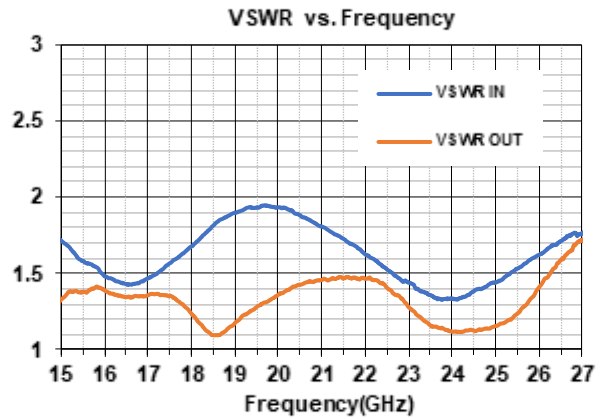
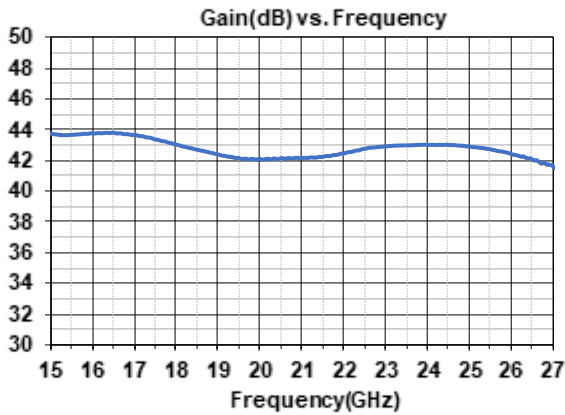
Absolute Maximum Ratings

Storage Temperature	-55°C to +125°C
Operating Temperature	-45°C to +85°C
V+	+12VDC to +18 VDC

Outline Drawing



Typical Performance Data



Note:

All data presented are 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).