

1 KHz to 1000 MHz Low Noise Amplifier

Coaxial Low Noise Amplifier with a frequency range from 1 KHz to 1000 MHz, with an impressive broadband typical 1.2 dB noise figure, 42 dB small signal gain, +8 dBm P1dB.. This low noise amplifier requires a +15V DC power supply, and can operates 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

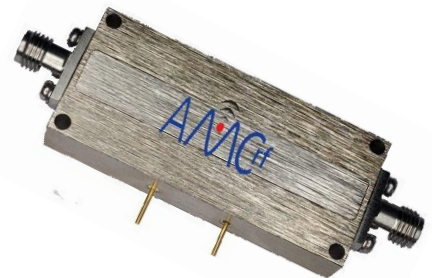
- Low Noise Figure
- 1KHz to 1 GHz Frequency Range

Applications

- Test & Measurement
- General Purpose Amplification
- Wireless Infrastructure

- Reverse Polarity Protection

- R&D Labs
- Aerospace & Defense
- Communication Systems



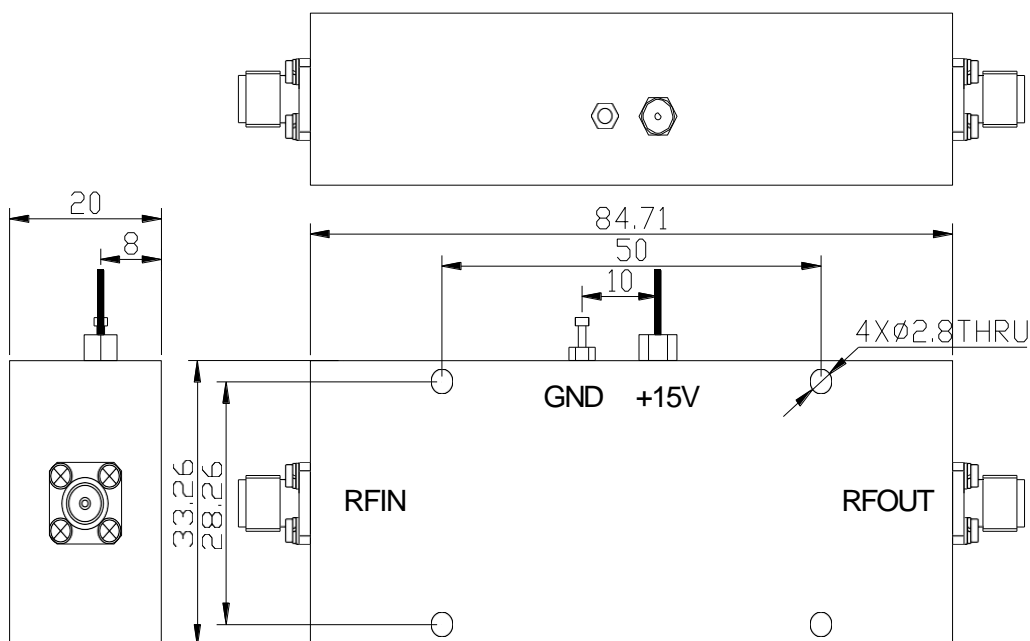
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1KHz		1GHz	
VSWR IN		1.8	2.0	
VSWR OUT		1.5	1.8	
Small Signal Gain (1KHz~1GHz)	40	42	45	dB
Gain Flatness (10MHz~1GHz)			±1.0	dB
Noise Figure (1MHz~1GHz)		1.2	1.8	dB
Output at 1 dB Compression Point	8	12		dBm
Output 3rd Intercept Point		25		dBm
Reverse Isolation		50		dB
DC Power Supply @ +15 Volts		110	150	mA
Finish		Nickel		

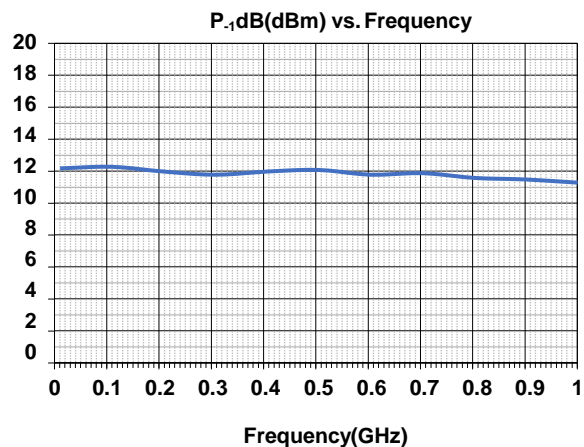
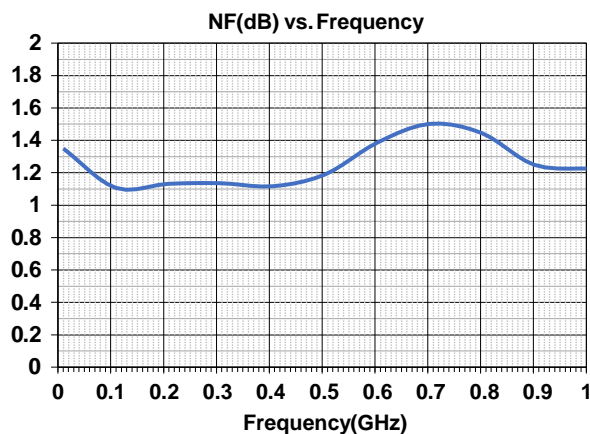
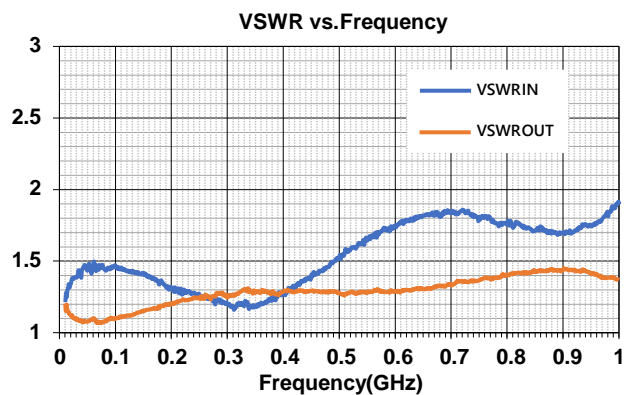
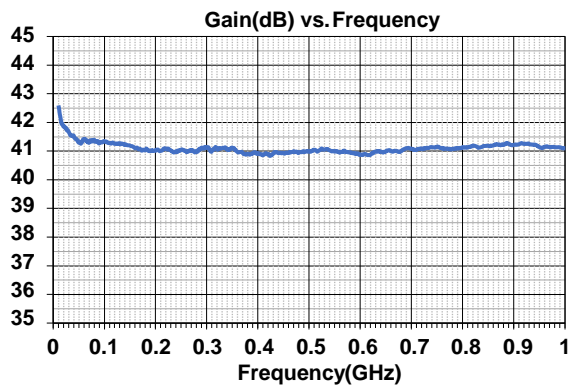
Absolute Maximum Ratings

Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C to +85°C
V+	+14VDC to +16VDC

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).