

### Description

LNA-800M2P2G low noise amplifier from HZ-THZ (also known as LNA) is featured in our extensive in-stock RF amplifier selection. Our connectorized low noise amplifier uses SMA connectors at 50 Ohm. HZ-THZ low noise amplifier has a minimum frequency of 800 MHz and maximum frequency of 2.2 GHz. The significantly low noise figure of this radio frequency amplifier is 0.9 dB with a typical gain of 10 dB. The output power P1dB of this LNA is 11 dBm.

LNA amplifier LNA-800M2P2G is rated at +12 Volts DC and 65 mA. Our low noise amplifiers are available in various configurations over different frequency bands to fit your needs, all of which shipped worldwide the same day.

### Features

- Broadband: 800 MHz to 2.2 GHz
- Noise Figure: 0.9 dB
- P1dB: 11 dBm
- Small Signal Gain: 10 dB min
- 50 Ohm Input and Output Matched
- -40~+85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply

### Applications

- Laboratory Applications
- R&D Labs
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- General Purpose Wireless
- RF Pre-amplification

# Low Noise Amplifier

## LNA-800M2P2G

800 MHz to 2.2 GHz, 0.9 dB NF, 11 dBm P1dB, 10 dB Gain, SMA

# HZ-THZ

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		2.2	GHz
Small Signal Gain	10		13	dB
Gain Flatness		±0.5	±1.0	dB
Input VSWR		1.6	2	: 1
Output VSWR		1.1	1.5	: 1
Noise Figure		0.9	1.2	dB
Output Power P1dB	8	11		dBm
Output 3rd Intercept Point	20	28		dBm
Operating DC Current		65	80	mA
Operating DC Voltage		+12		Volts
Input Connector			SMA Female	
Output Connector			SMA Female	

Electrical Specification Notes:

Values at +25°C, sea level.

### Absolute Maximum Rating

Parameter	Rating	Units
DC Voltage	+10 to +18	Volts
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +85	°C

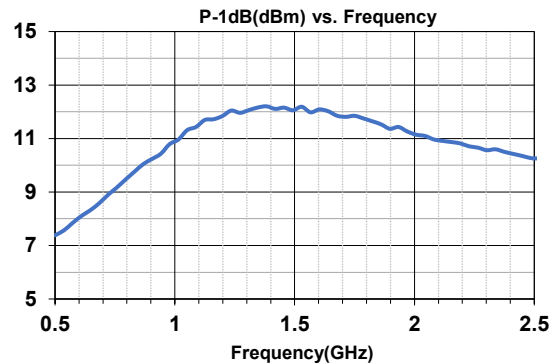
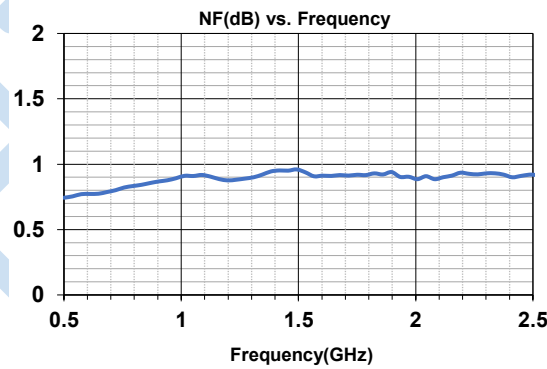
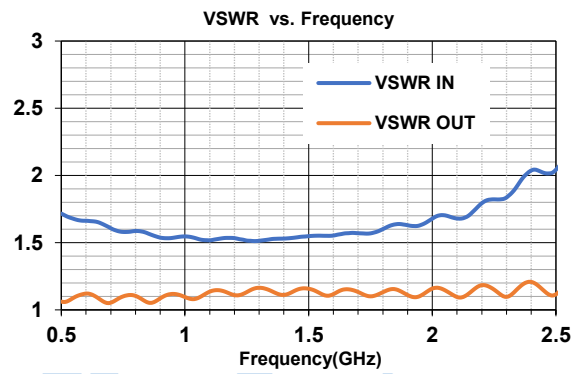
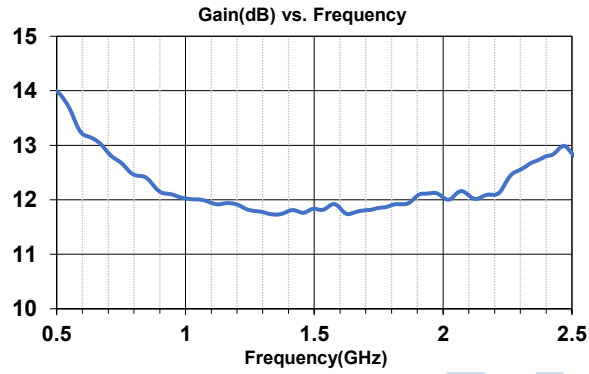
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## Typical Performance Data



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## Mechanical Specifications

### Size

Length	1.88 in [47.75 mm]
Width	1.24 in [31.60 mm]
Height	0.39 in [10.00 mm]

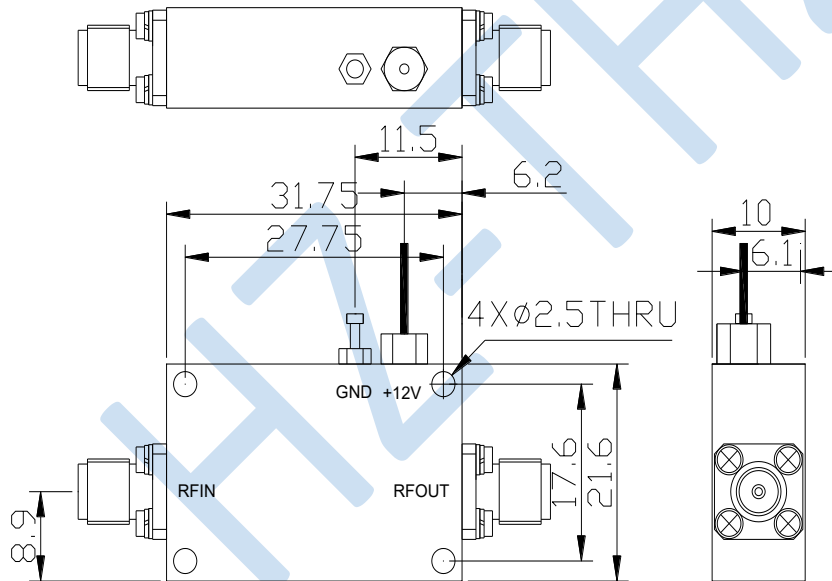
Weight 0.38 lbs [172.00 g]

Package Type Customized

## Outline Drawings

Unit: mm

Tolerance:  $\pm 0.05$  mm



## How To Order

LNA-800M2P2G

Pls send request to [sales@hz-thz.com](mailto:sales@hz-thz.com).