

Description

LNA-2000M4G 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 2 GHz and maximum frequency of 4 GHz. The significantly low noise figure of this radio frequency amplifier is 0.4 dB with a typical gain of 38 dB. The output power P1dB of this LNA is 14 dBm.

LNA amplifier LNA-2000M4G is rated at 12 Volts DC and 105 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: 2 GHz to 4 GHz
- Noise Figure: 0.4 dB
- P1dB: 14 dBm
- Small Signal Gain: 38 dB typical
- 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-2000M4G

2 GHz to 4 GHz, 0.4 dB NF, 14 dBm P1dB, 38 dB Gain, SMA

HZ-THZ

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		4	GHz
Small Signal Gain		38	40	dB
Gain Flatness		±0.5	±1	dB
Input VSWR		1.3	1.6	: 1
Output VSWR		1.3	1.6	: 1
Noise Figure		0.4	0.6	dB
Output Power P1dB	12	14		dBm
Output 3rd Intercept Point		28		dBm
Operating DC Current		105	150	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	+8 to +18	Volts
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +125	°C

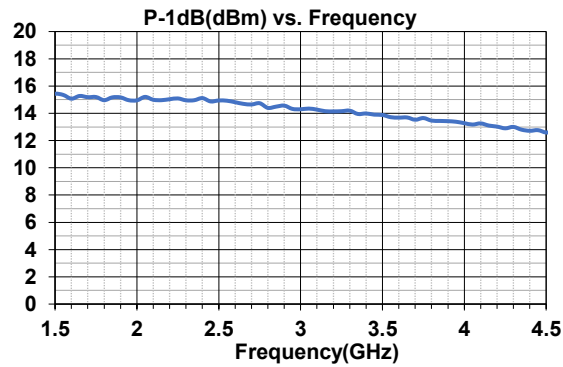
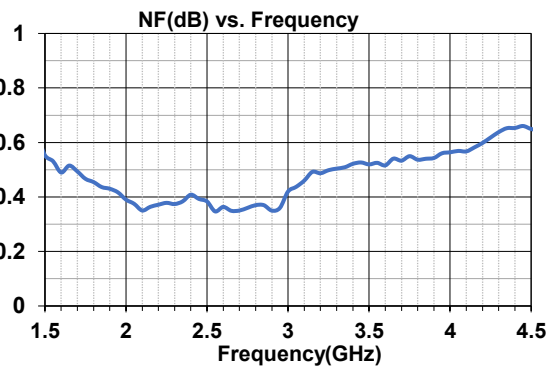
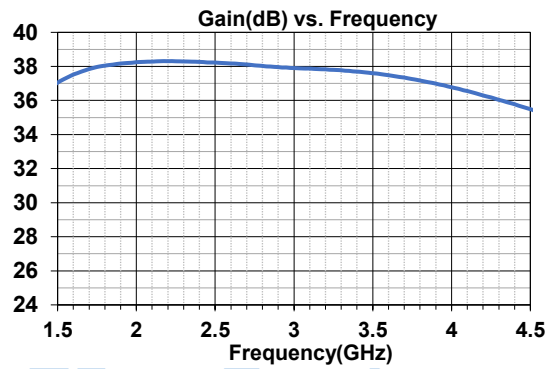
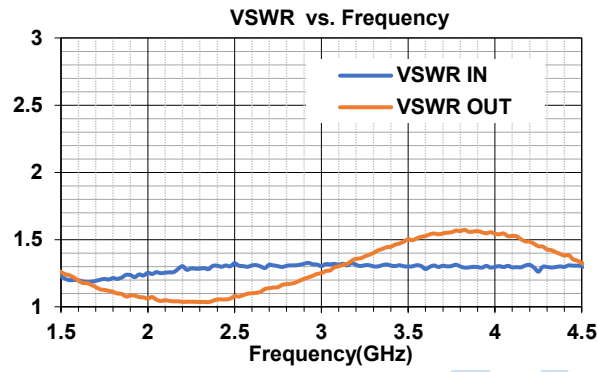
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Typical Performance Data



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Mechanical Specifications

Size

Length	1.34 in [34.08 mm]
Width	1.03 in [26.26 mm]
Height	0.41 in [10.36 mm]

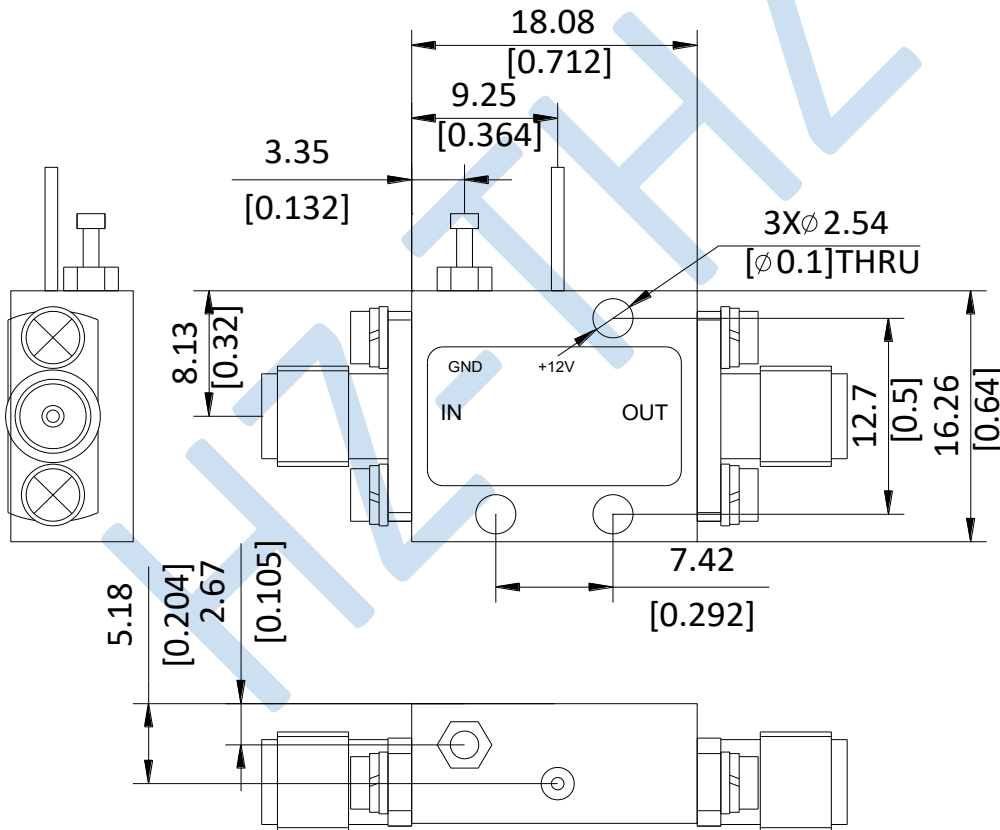
Weight 0.38 lbs [172.00 g]

Package Type Customized

Outline Drawings

Unit: mm

Tolerance: ± 0.05 mm



How To Order

LNA-2000M4G

Pls send request to sales@hz-thz.com.