

## Description

LNA-30M3G 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 30 MHz and maximum frequency of 3 GHz. The significantly low noise figure of this radio frequency amplifier is 2.5 dB with a typical gain of 55 dB. The output power P1dB of this LNA is 16 dBm.

LNA amplifier LNA-30M3G is rated at +12 Volts DC and 200 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: 30 MHz to 3 GHz
- Noise Figure: 2.5 dB
- P1dB: 16 dBm
- Small Signal Gain: 55 dB min
- 50 Ohm Input and Output Matched
- -40~+70°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-30M3G

30 MHz to 3 GHz, 2.5 dB NF, 16 dBm P1dB, 55 dB Gain, SMA

# HZ-THZ

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.03		3	GHz
Small Signal Gain		55	58	dB
Gain Flatness		±0.5	±1	dB
Input VSWR		1.5	1.7	: 1
Output VSWR		1.5	1.7	: 1
Noise Figure		2.5	4.0	dB
Output Power P1dB	16			dBm
Output 3rd Intercept Point		30		dBm
Operating DC Current		200	300	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	+12 to +18	Volts
RF Input Power	+10	dBm
Operating Temperature	-40 to +70	°C
Storage Temperature	-55 to +85	°C

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# HZ-THZ

### Mechanical Specifications

#### Size

Length	2.28 in [57.91 mm]
Width	1.24 in [31.60 mm]
Height	0.39 in [10.00 mm]

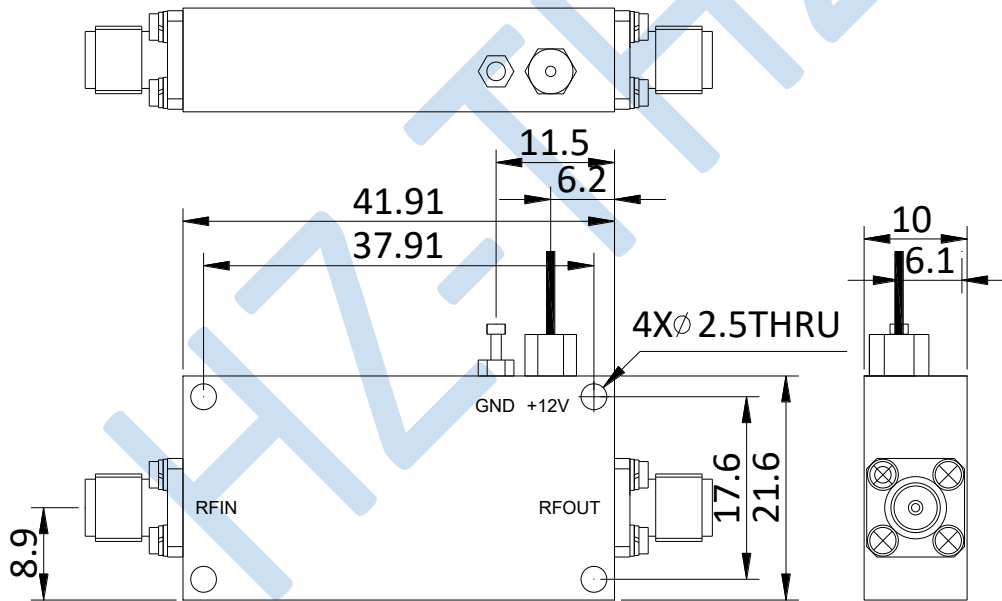
Weight 0.38 lbs [172.00 g]

Package Type Customized

### Outline Drawings

Unit: mm

Tolerance:  $\pm 0.05$  mm



### How To Order

#### LNA-30M3G

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