

## Description

LNA-600M3G 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 600 MHz and maximum frequency of 3 GHz. The significantly low noise figure of this radio frequency amplifier is 1.5 dB with a typical gain of 29 dB. The output power P1dB of this LNA is 15 dBm.

LNA amplifier LNA-600M3G is rated at +12 Volts DC and 100 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: 600 MHz to 3 GHz
- Noise Figure: 1.5 dB
- P1dB: 15 dBm
- Small Signal Gain: 25 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-600M3G

600 MHz to 3 GHz, 1.5 dB NF, 15 dBm P1dB, 29 dB Gain, SMA

HZ-THZ

## Electrical Specifications

| Description                | Minimum | Typical | Maximum    | Units |
|----------------------------|---------|---------|------------|-------|
| Frequency Range            | 0.6     |         | 3          | GHz   |
| Small Signal Gain          | 25      | 29      |            | dB    |
| Gain Flatness              |         | ±0.5    | ±1         | dB    |
| Input VSWR                 |         | 1.5     | 1.8        | : 1   |
| Output VSWR                |         | 1.5     | 1.8        | : 1   |
| Noise Figure               |         | 1.5     | 2          | dB    |
| Output Power P1dB          | 10      | 15      |            | dBm   |
| Output 3rd Intercept Point |         | 30      |            | dBm   |
| Operating DC Current       |         | 100     | 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            | +12 to +20 | Volts |
| Operating Temperature | -40 to +70 | °C    |
| Storage Temperature   | -55 to +85 | °C    |

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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] |

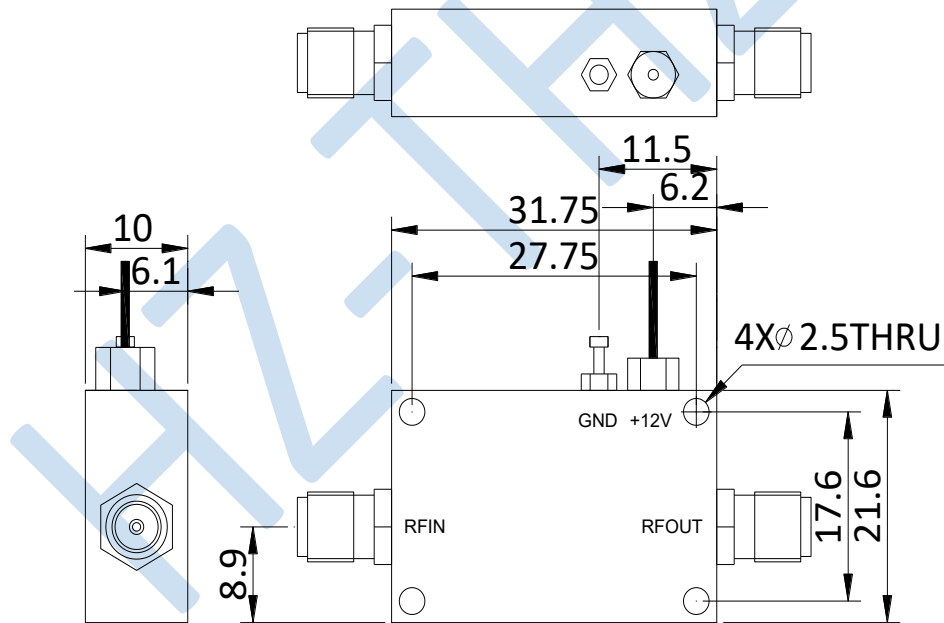
Weight 0.38 lbs [172.00 g]

Package Type Customized

## Outline Drawings

Unit: mm

Tolerance:  $\pm 0.05$  mm



## How To Order

LNA-600M3G

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