

## Description

LNA-9K3G 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 9 KHz and maximum frequency of 3 GHz. The significantly low noise figure of this radio frequency amplifier is 2.4 dB with a typical gain of 40 dB. The output power P1dB of this LNA is 16 dBm.

LNA amplifier LNA-9K3G is rated at +12 Volts DC and 160 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: 9 KHz to 3 GHz
- Noise Figure: 2.4 dB
- P1dB: 16 dBm
- Small Signal Gain: 40 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-9K3G

9 KHz to 3 GHz, 2.4 dB NF, 16 dBm P1dB, 40 dB Gain, SMA

HZ-THZ

## Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.000009		3	GHz
Small Signal Gain	40		47	dB
Gain Flatness		±1	±2.0	dB
Input VSWR		1.6	2	: 1
Output VSWR		1.6	2	: 1
Noise Figure		2.4	3.0	dB
Output Power P1dB	13	16		dBm
Output 3rd Intercept Point		26		dBm
Operating DC Current		160	200	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 +15	Volts
Operating Temperature	-40 to +70	°C
Storage Temperature	-55 to +85	°C

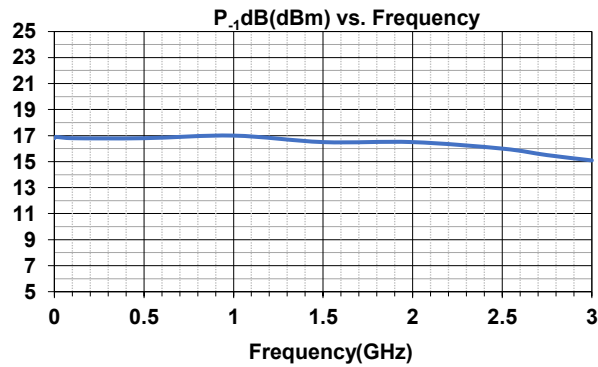
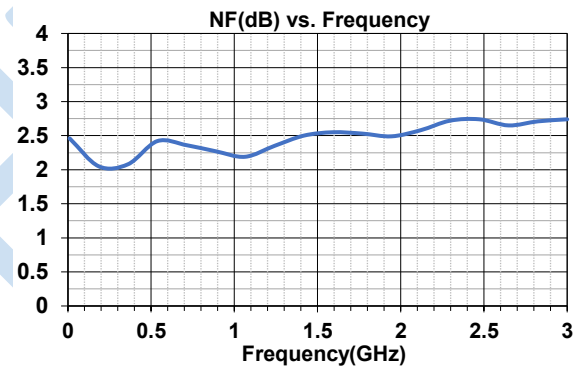
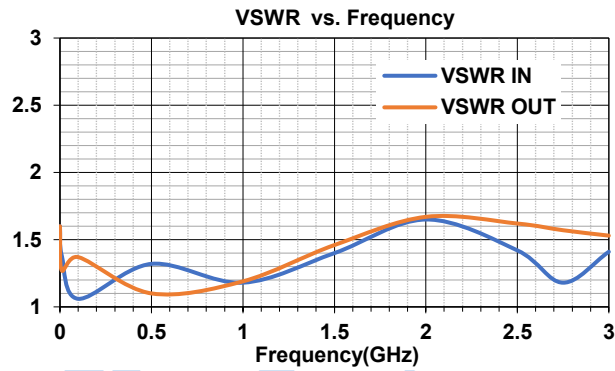
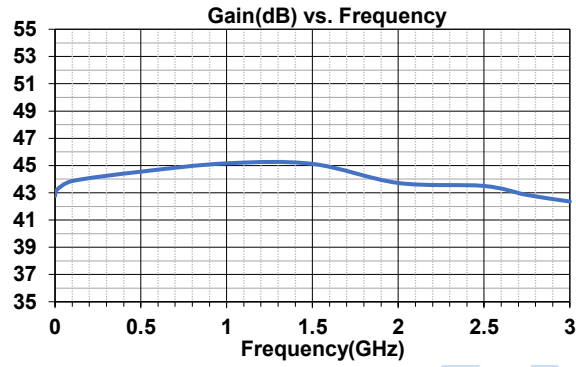
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## Typical Performance Data



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## Mechanical Specifications

### Size

Length	2.63 in [66.80 mm]
Width	1.24 in [31.60 mm]
Height	0.37 in [9.50 mm]

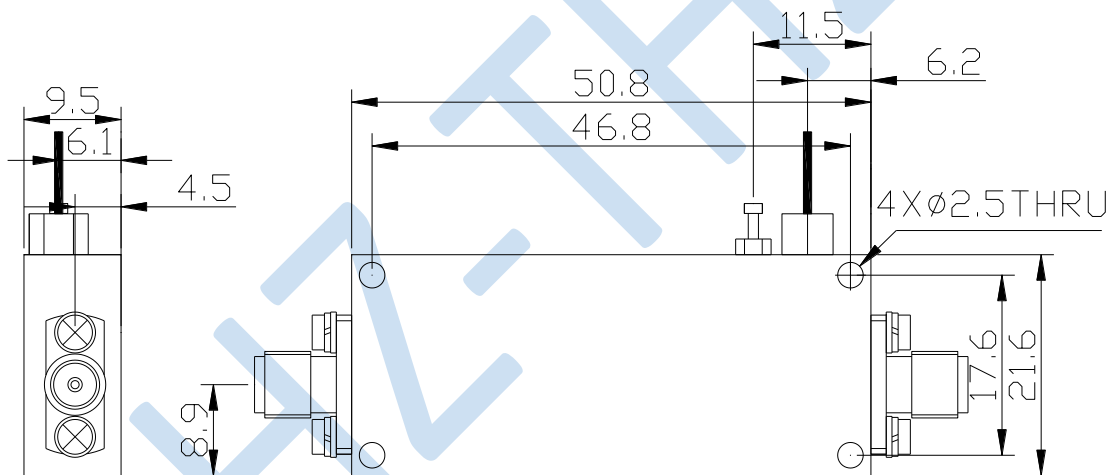
Weight 0.38 lbs [172.00 g]

Package Type Customized

## Outline Drawings

Unit: mm

Tolerance:  $\pm 0.05$  mm



## How To Order

LNA-9K3G

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