Low Noise Amplifier

LNA-500M6G

500 MHz to 6 GHz, 3 dB NF, 18 dBm P1dB, 45 dB Gain, SMA

HZ-THZ

Description

LNA-500M6G 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 500 MHz and maximum frequency of 6 GHz. The significantly low noise figure of this radio frequency amplifier is 3 dB with a typical gain of 45 dB. The output power P1dB of this LNA is 18 dBm.

LNA amplifier LNA-500M6G is rated at +15 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: 500 MHz to 6 GHz

■ Noise Figure: 3 dB

■ P1dB: 18 dBm

■ Small Signal Gain: 45 dB typ

■ 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

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		6	GHz
Small Signal Gain	40	45		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.5	2.0	: 1
Output VSWR		1.5	2.0	:1
Noise Figure		3	3.5	dB
Output Power P1dB	13	18		dBm
Output 3rd Intercept Point		28		dBm
Operating DC Current		160	200	mA
Operating DC Voltage		+15		Volts
Input Connector	SMA Female			
Output Connector		SMA	A Female	

Electrical Specification Notes:

Values at +25°C, sea level.

Absolute Maximum Rating

Parameter	Rating	Units
DC Voltage	+12 to +16	Volts
RF Input Power	+10	dBm
Operating Temperature	-40 to +85	$^{\circ}\! \mathbb{C}$
Storage Temperature	-55 to +125	$^{\circ}\!\mathbb{C}$

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Mechanical Specifications

C	: -	_
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 Length
 2.60 in [66.00 mm]

 Width
 0.98 in [25.00 mm]

 Height
 0.39 in [10.00 mm]

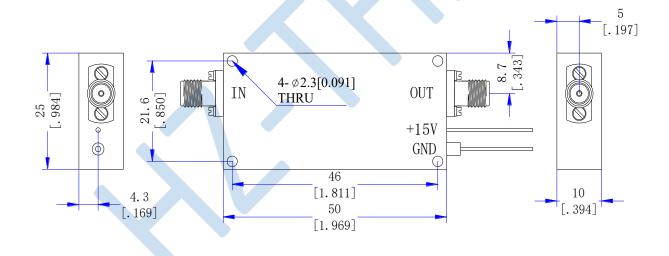
Weight 0.38 lbs [172.00 g]

Package Type Customized

Outline Drawings

Unit: mm

Tolerance: ±0.05 mm



How To Order

LNA-500M6G

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