

## 18-32GHz Low Noise Amplifier



### Product Overview

AT-LNA-1832-4003Y is high gain low noise amplifier with 40dB gain in the frequency of 18-32GHz. The DC power requirement is +8V/300mA. The module is with 2.92mm connector.

AT Microwave can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB, Pout from +5 to +27dBm, and connectors from SMA to 1.85mm. If you don't find what you need, just send us email [sales@atmicrowave.com](mailto:sales@atmicrowave.com)

### Advantages

- ✓ Frequency: 18-32GHz
- ✓ Small signal gain: 40dB
- ✓ NF=3dB
- ✓ Single Power Supply

### Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		18-32GHz	
Gain	40dB	42dB	
Gain Flatness		+/-1.5dB	
NF		3 dB	
P1Db		+10dBm	
Drain Supply		+5V	+8V
Current		300 mA	
Input VSWR		1.5	2.5
Output VSWR		1.5	2.5
Spec Temp		25C	





# AT-LNA-1832-4003Y

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## Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Weight	80g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+10dBm
Operating Temperature(note)	-20 to + 70C
Storage Temperature	-65 to +150C

Note: -40 to +85C is available according to request.

### Caution:

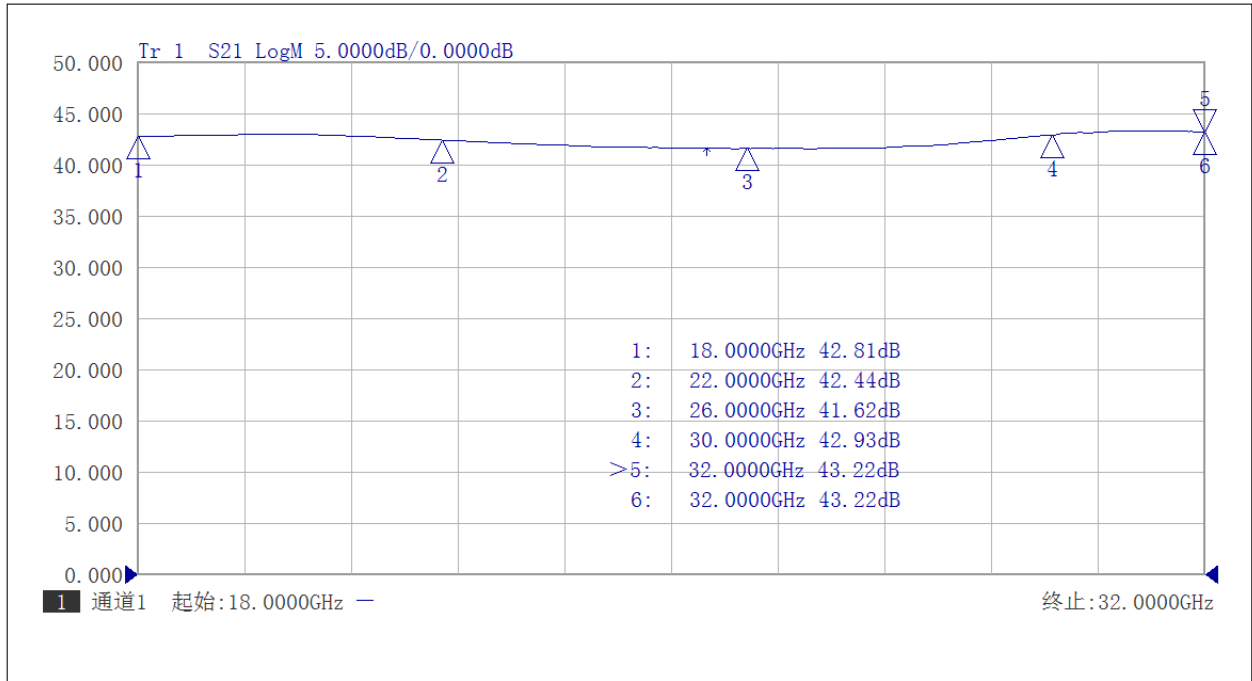
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

## Notes:

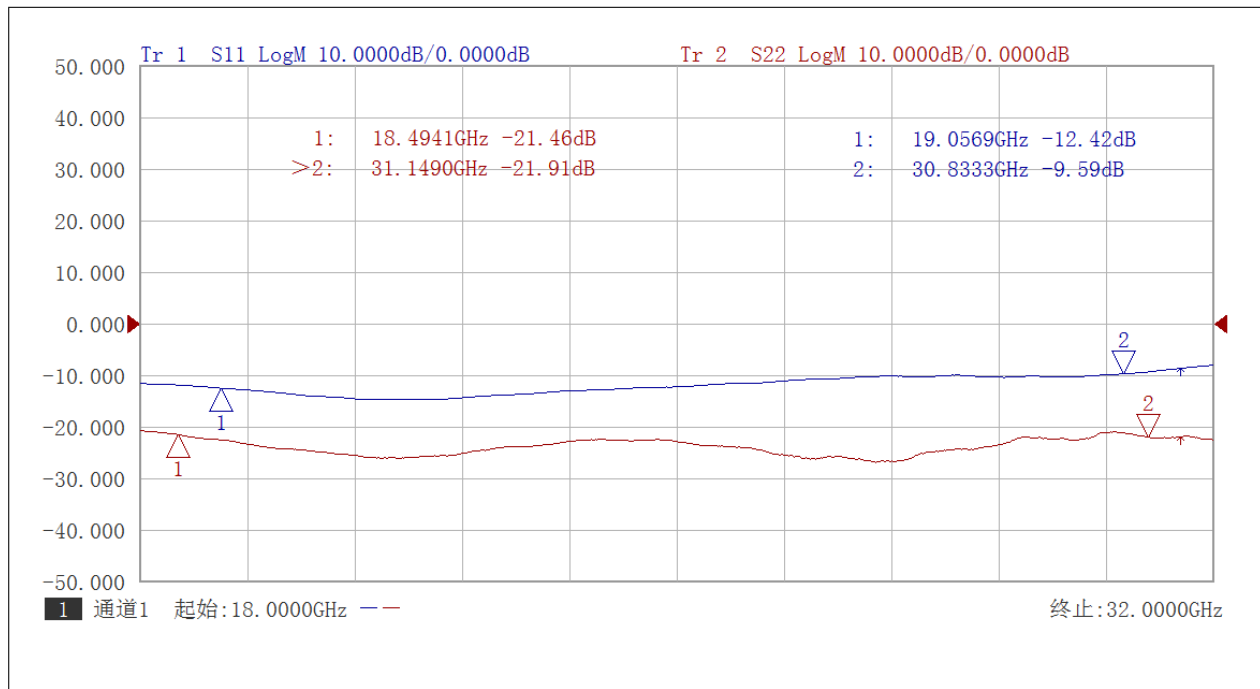
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



## Test Data

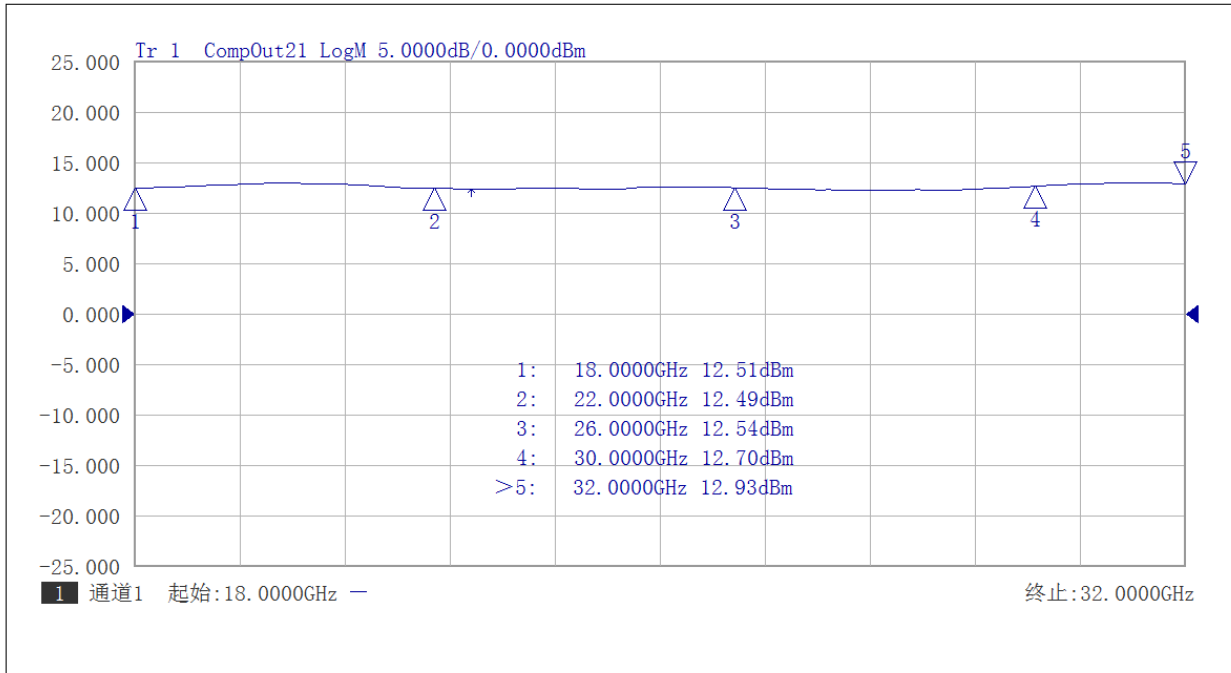


Gain vs Frequency

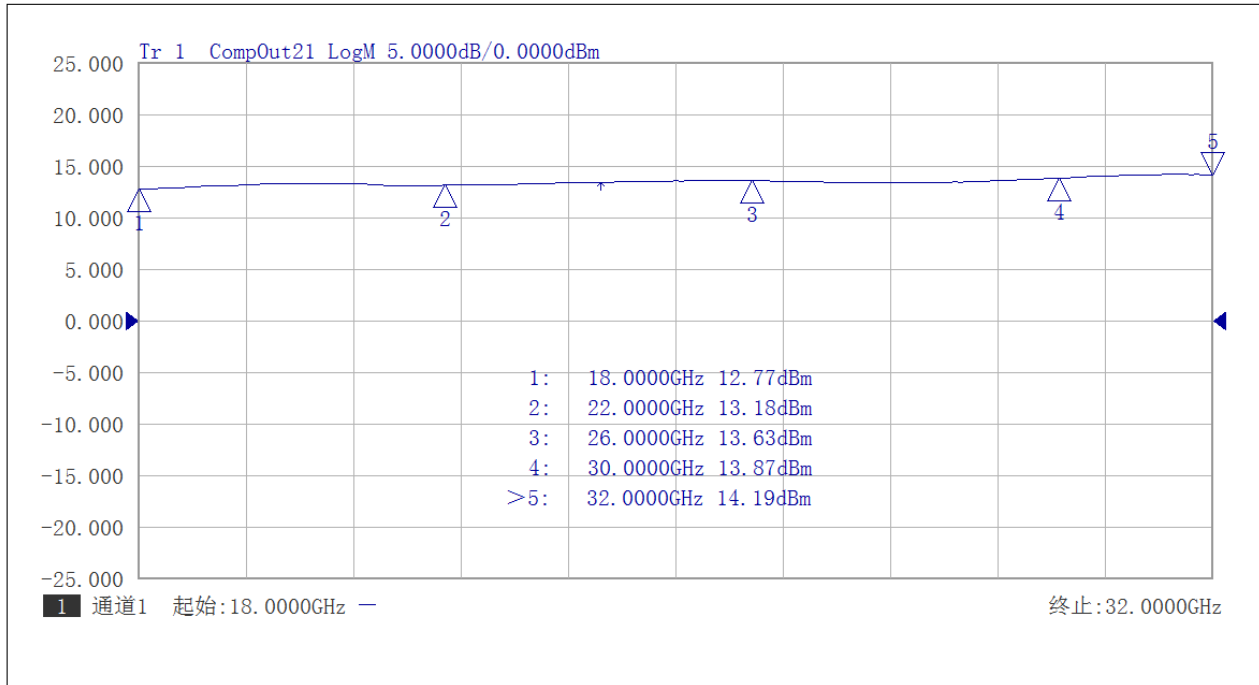


Return Loss vs Frequency



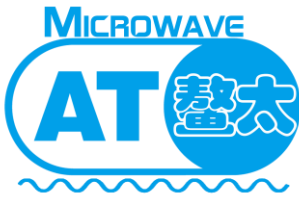


P1dB Vs Frequency



P3dB Vs Frequency





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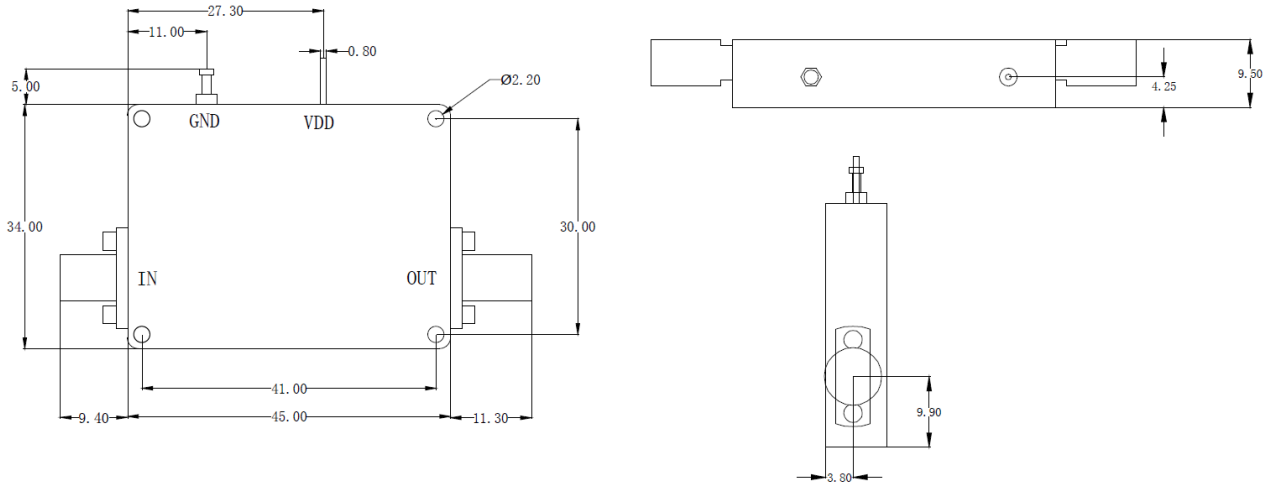
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NF vs Frequency



## Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

## PCN History

Date	Description
2020-12-15	Change Nickel plated to Gold Plated. Change Screw assembly to Epoxy Sealing. RF Performance unchanged.

