

### 10MHz-43.5GHz Broadband LNA

2022-7-1



#### Product Overview

AT-LNA-0043-3504C is broadband LNA from 10MHz-43.5GHz, with Pout=+13dBm. NF is 4.5dB from 0.1-40GHz. The DC power requirement is +5V/210mA. The module is with 2.92mm Female

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.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Advantages

- ✓ Frequency: 10MHz-43.5GHz
- ✓ NF=4.5dB
- ✓ High gain: 35dB
- ✓ Single Power Supply

#### Application

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

#### Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-43.5GHz	
Gain	32dB	35dB	
P1dB		+13dBm	
Psat		+15dBm	
NF(1-40GHz)		4.5dB	6.5dB
Input Return Loss	-5	-10dB	
Output Return Loss	-5	-10dB	
Drain Supply		+5V	+8V
Current		210 mA	280mA
Spec Temp		25C	





# AT-LNA-0043-3504C

10MHz-43.5GHz Low Noise Amplifier

## Mechanical Information

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

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+15 dBm
Operating Temperature(note)	-20 to +70C
Storage Temperature	-65 to +150C

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

## 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.

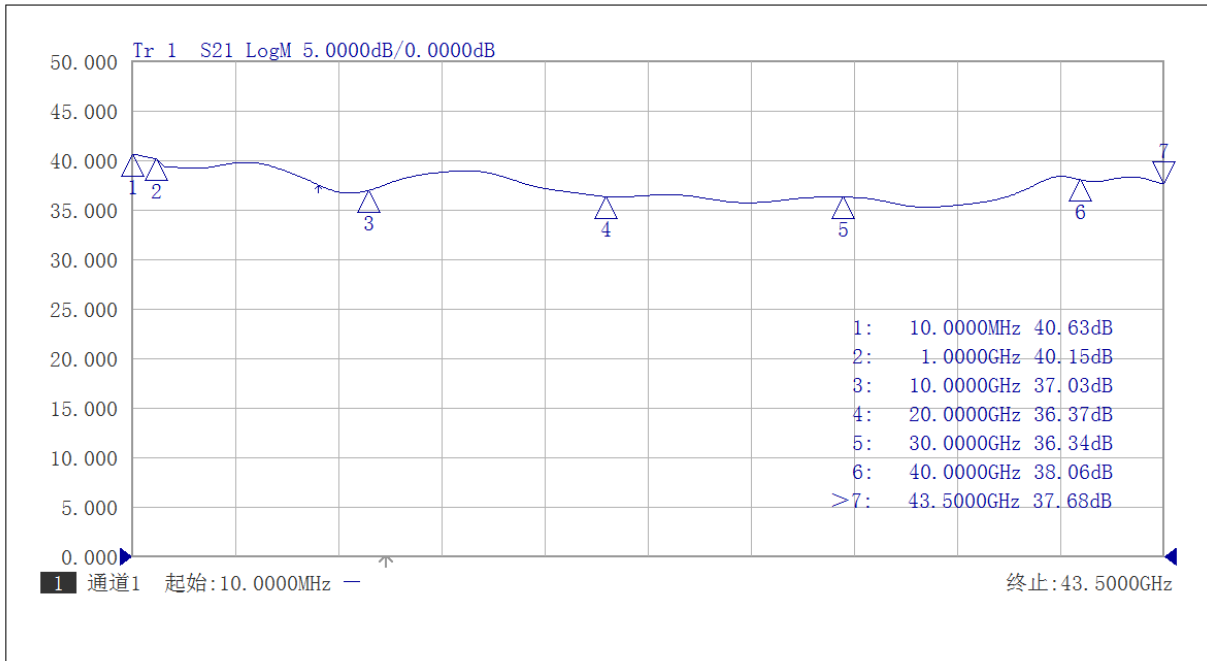
## Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter

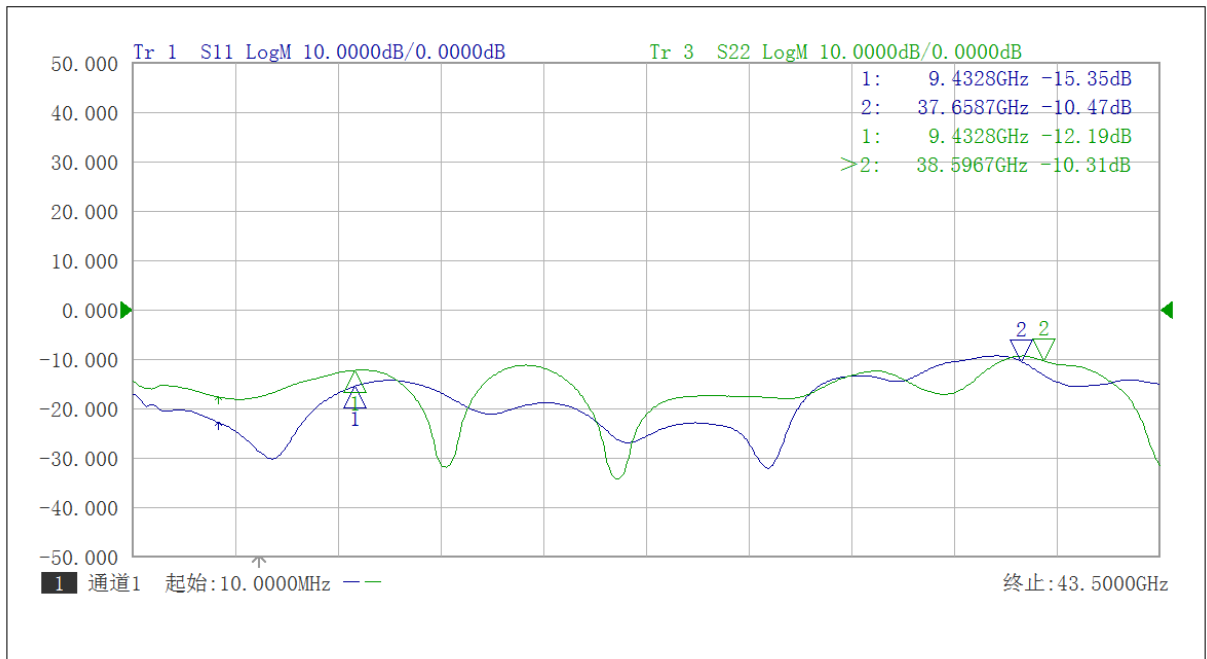


### Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



Gain vs Frequency



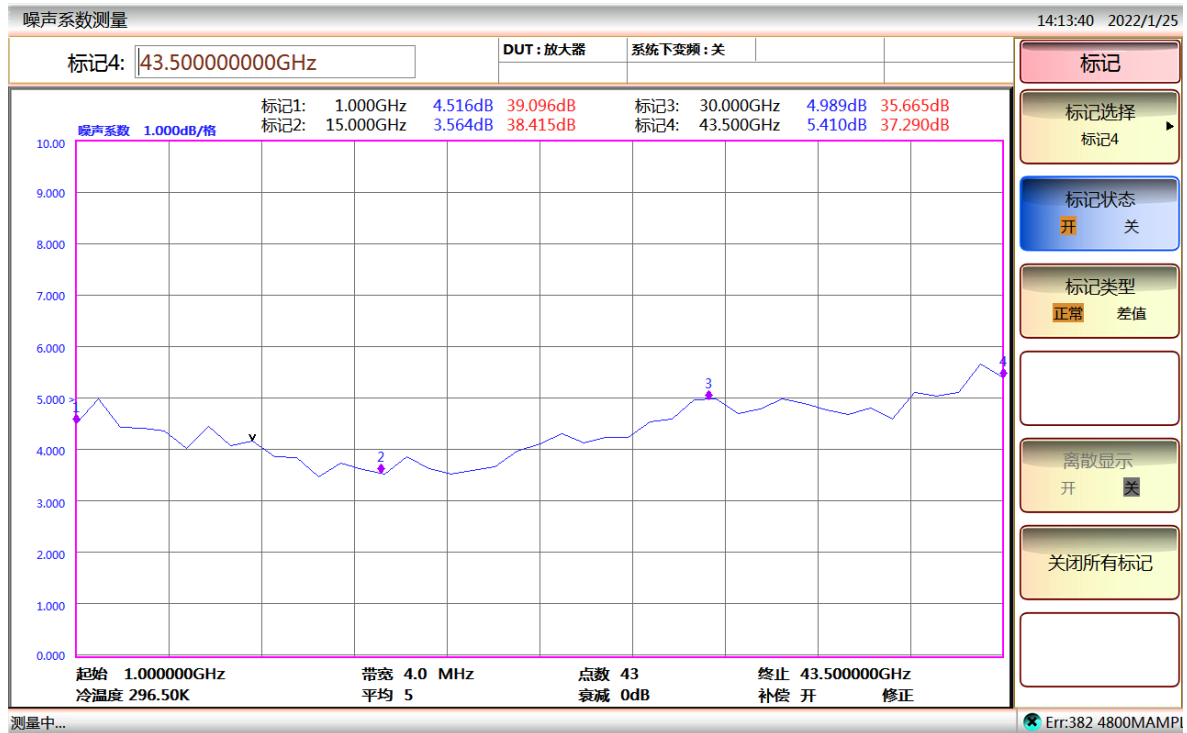
Return Loss vs Frequency





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10MHz-43.5GHz Low Noise Amplifier

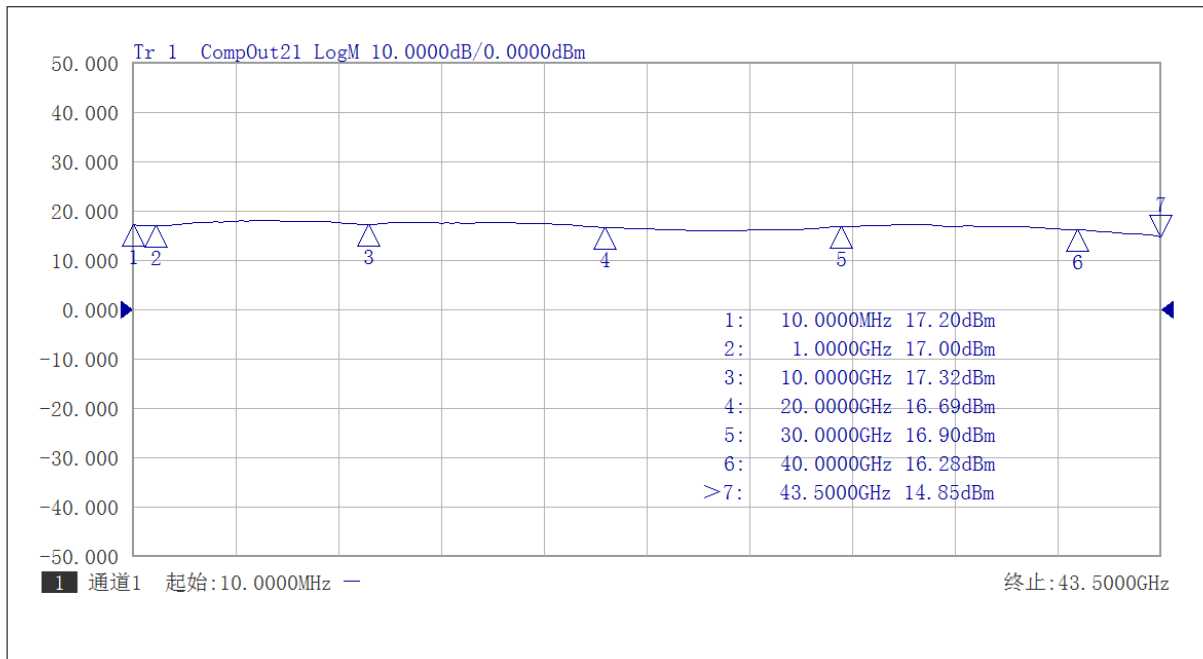


NF TEST 1-43.5GHz



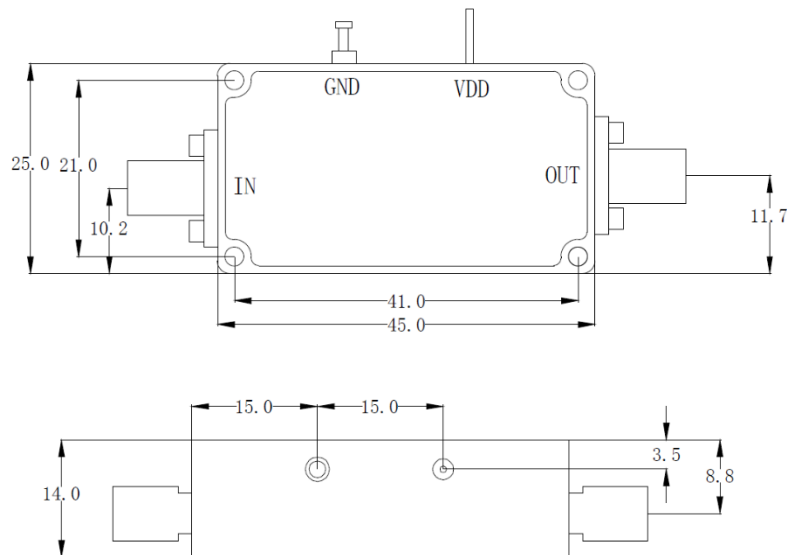
NF TEST 0.1-1GHz





P1db vs Frequency

### Dimension: (unit in mm)



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

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

