

2-43.5GHz Low Noise Amplifier



Product Overview

AT-LNA-0243-5304L is high gain low noise amplifier with 53dB gain in the frequency of 2-43.5GHz. The DC power requirement is +5V/250mA. 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.

More information, please visit: www.atmicrowave.com

Advantages

- ✓ Frequency: 2-43.5GHz
- ✓ Small signal gain: 53dB
- ✓ NF=4dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		2-43.5GHz	
Gain	50dB	53 dB	
Gain Flatness		+/-4dB	
NF(2-40GHz)		4dB	6dB
P1dB		+16dBm	
Psat		+18dBm	
Drain Supply		+5V	+8V
Current		300 mA	400mA
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





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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	+12dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

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.

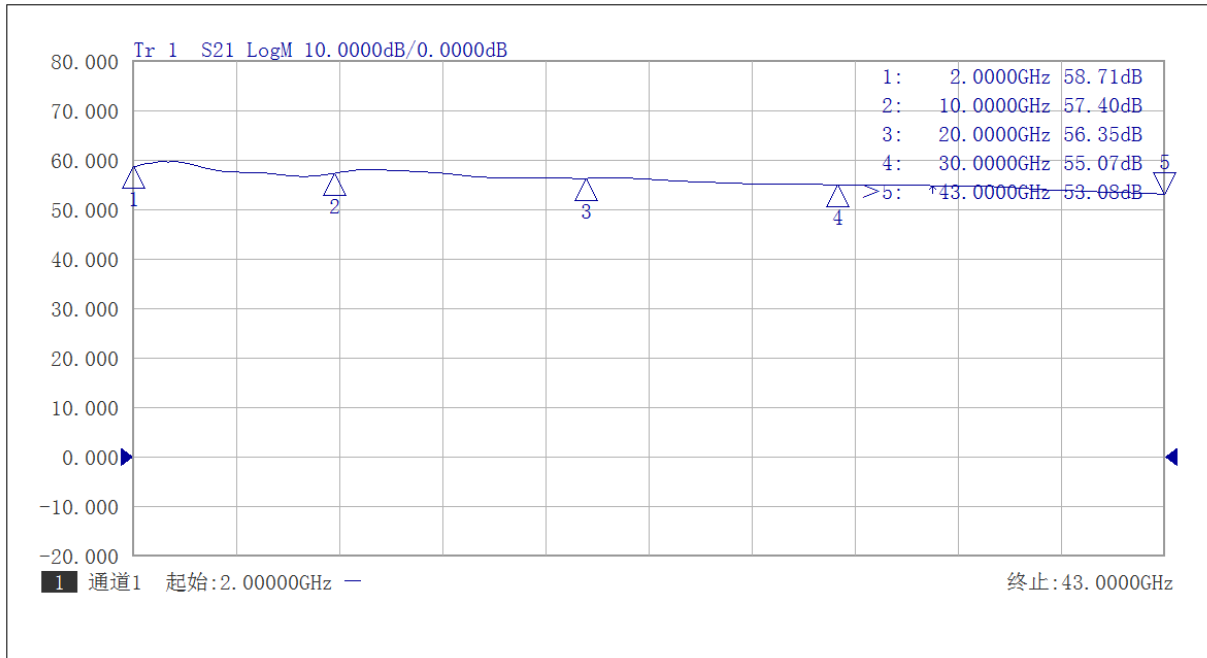
Part Number Selection Guide

Item	Description
AT-LNA-0243-5304L	Stand Module with DC Power Supply
AT-LNA-0243-5304L- LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter

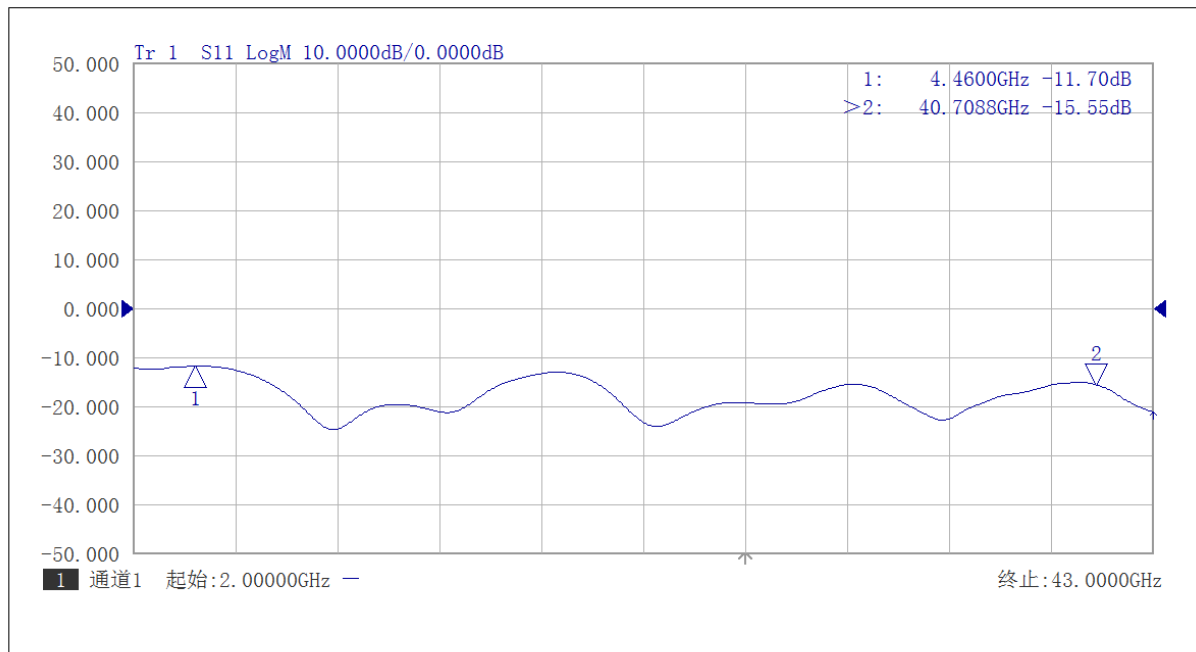


Test Data (25C)

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

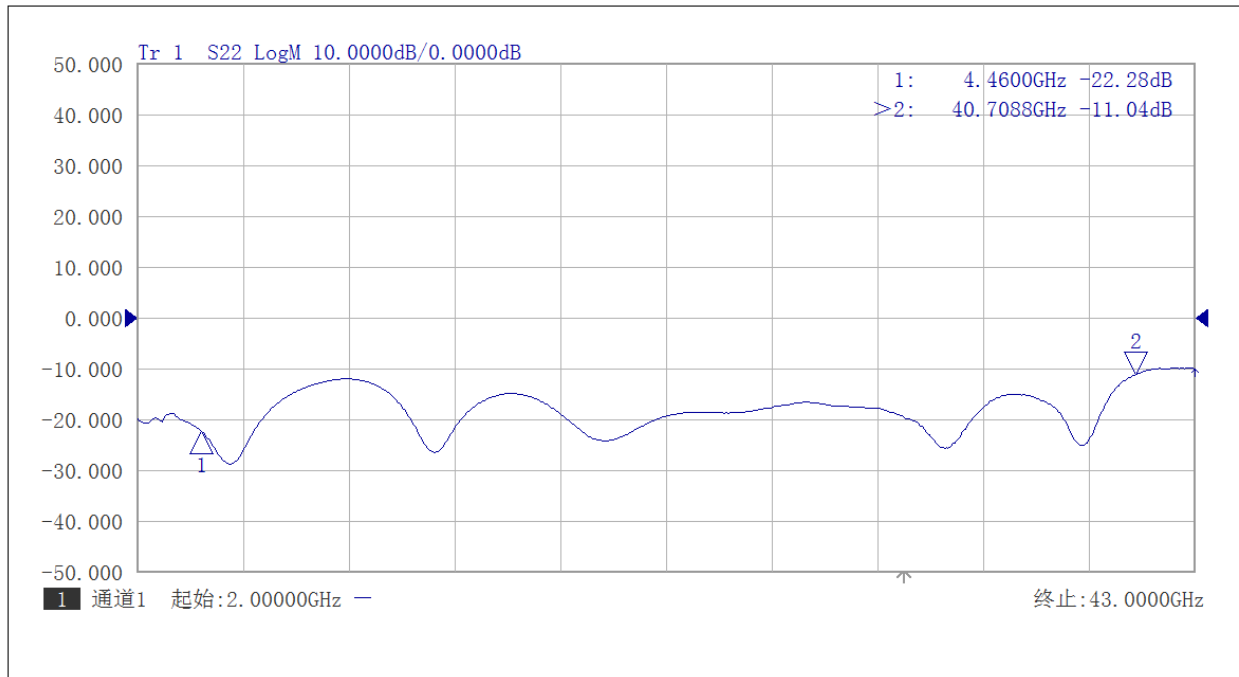


Gain vs Frequency

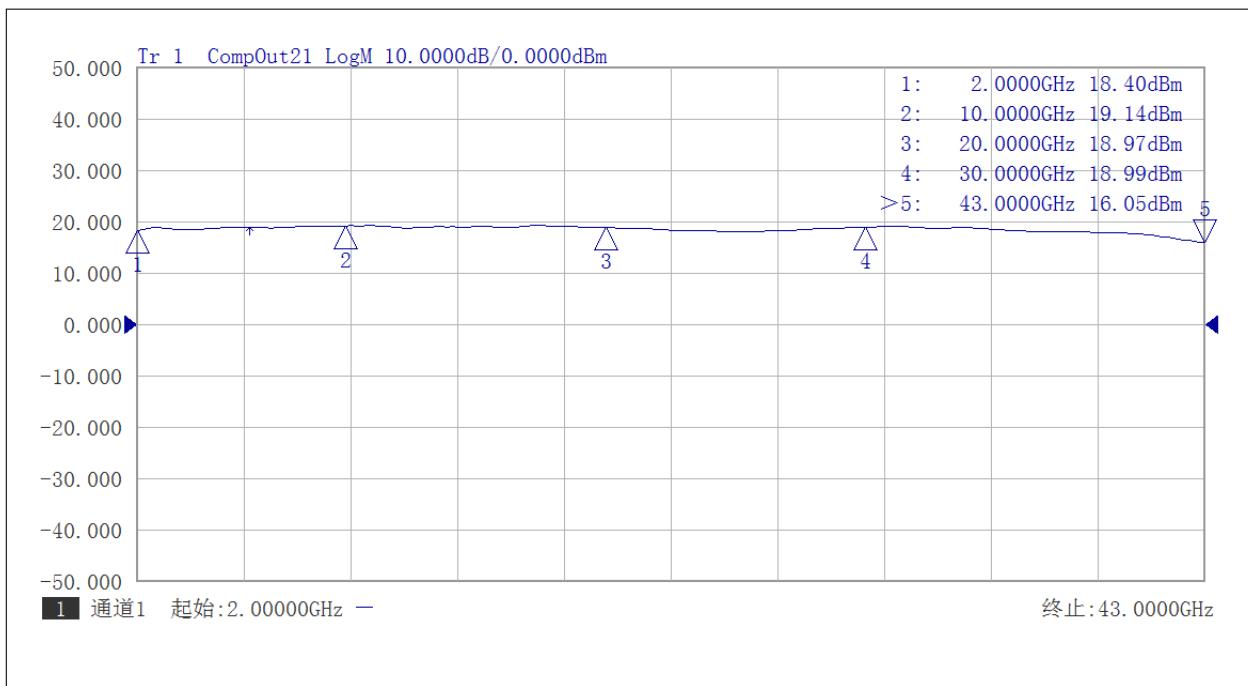


S11 vs Frequency



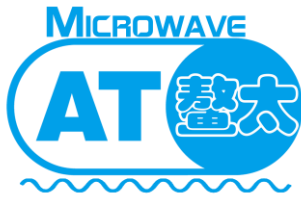


S22 vs Frequency



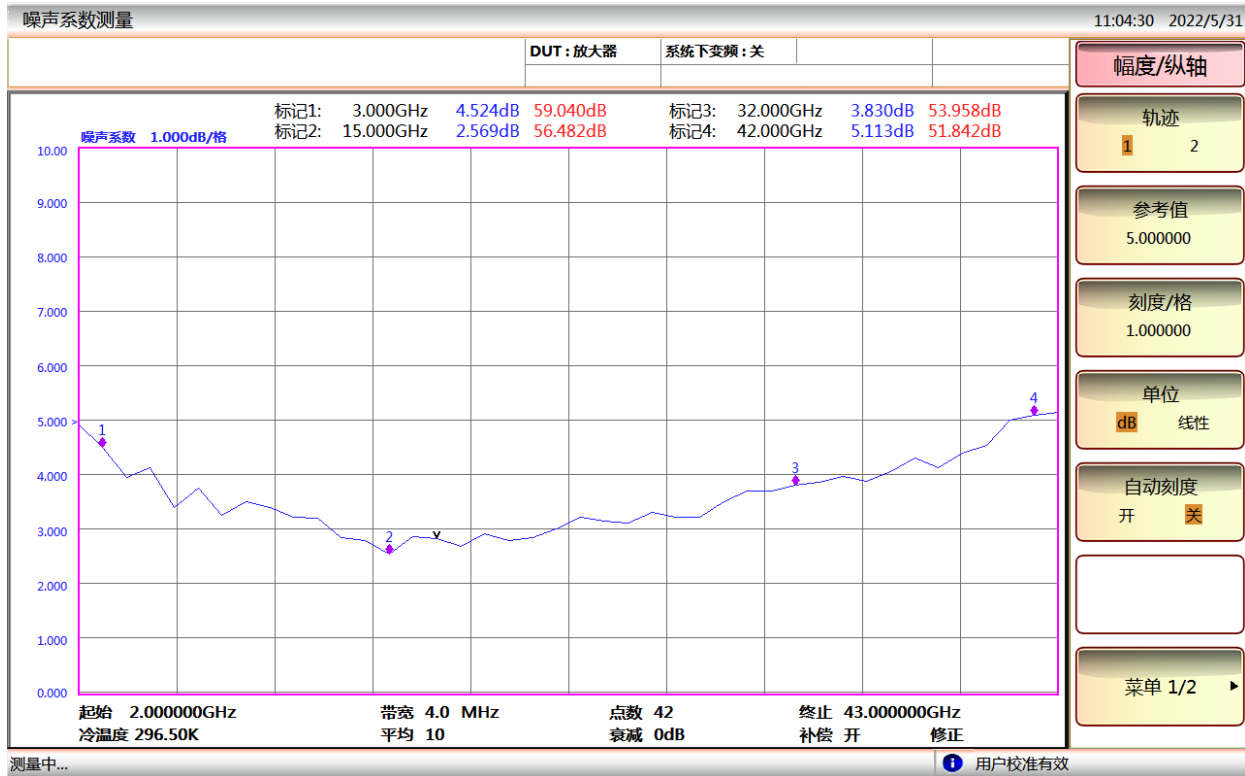
P3dB vs Frequency





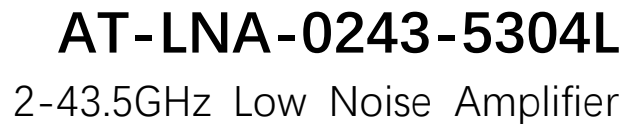
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NF test vs Frequency

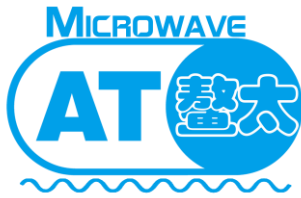




Note: Female Default. Contact with us for other types.

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-LCBT Option Dimension: (unit in mm)

