

AT-LNA-0043-3504Y

75kHz-43.5GHz Low Noise Amplifier

75kHz-43.5GHz Broadband Low Noise Amplifier

2024-2-25

High Gain=35dB, NF=4.5dB



Product Overview

AT-LNA-0043-3504Y broadband low noise amplifier from 50kHz to 43.5GHz. The NF is 4.5dB from 1-40GHz. The DC power requirement is +5V/330mA. The module is with 2.92mm Female. 2.4mm connector is available according to request.

NF no guarantee for 50kHz to 100MHz. 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: 75kHz-43.5GHz
- ✓ Small signal gain: 35dB
- ✓ Noise Figure 4.5dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		75kHz-43.5GHz	
Gain	32dB	35dB	
Gain Flatness (1-40GHz)		+/- 3dB	
NF(1-40Hz)		4.5dB	6.5
P1dB		+10dBm	
Psat		+13dBm	
Drain Supply		+5V	+8V
Current		330mA	400mA
Input Return Loss		-10 dB	
Output Return Loss		-10 dB	
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Package Sealing	Epoxy Sealed
Finish	Gold Plated
Weight	100g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+10dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

Notes:

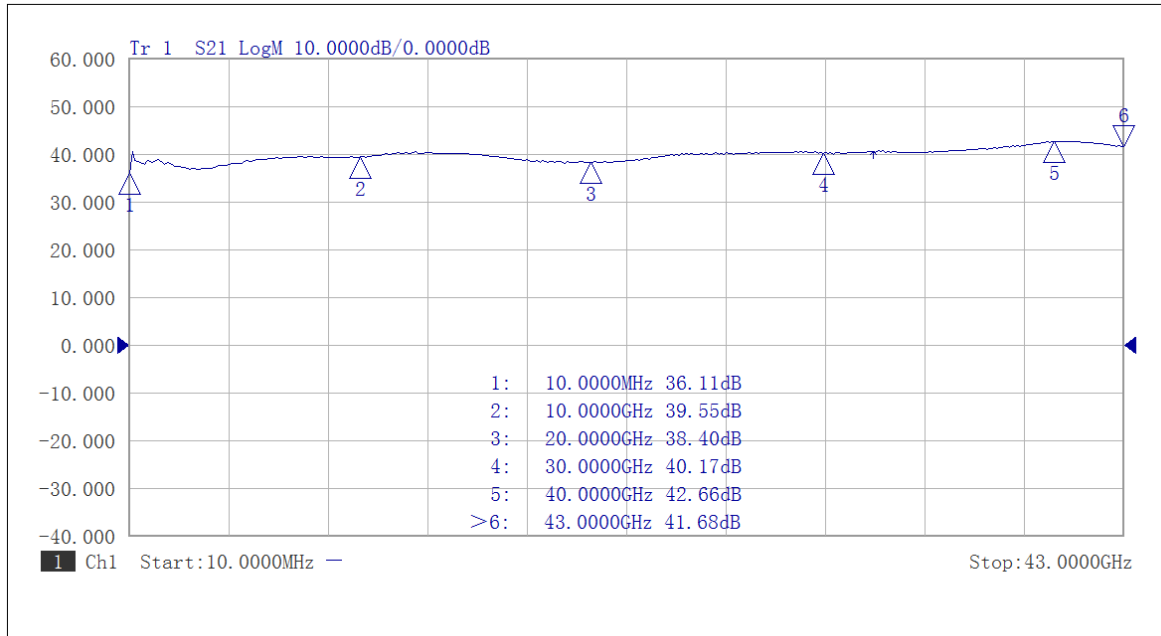
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection Guide

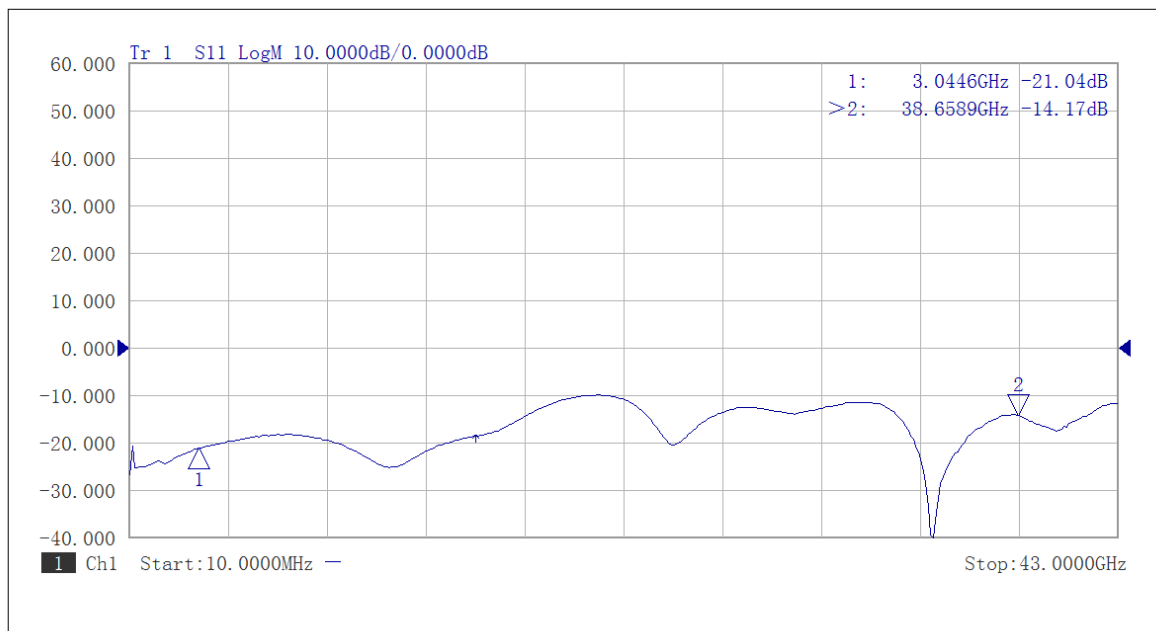
Item	Description
AT-LNA-0043-3504Y	Standard Module with DC Power Supply
AT-LNA-0043-3504Y-LCBT	Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter



TEST DATA(25C)

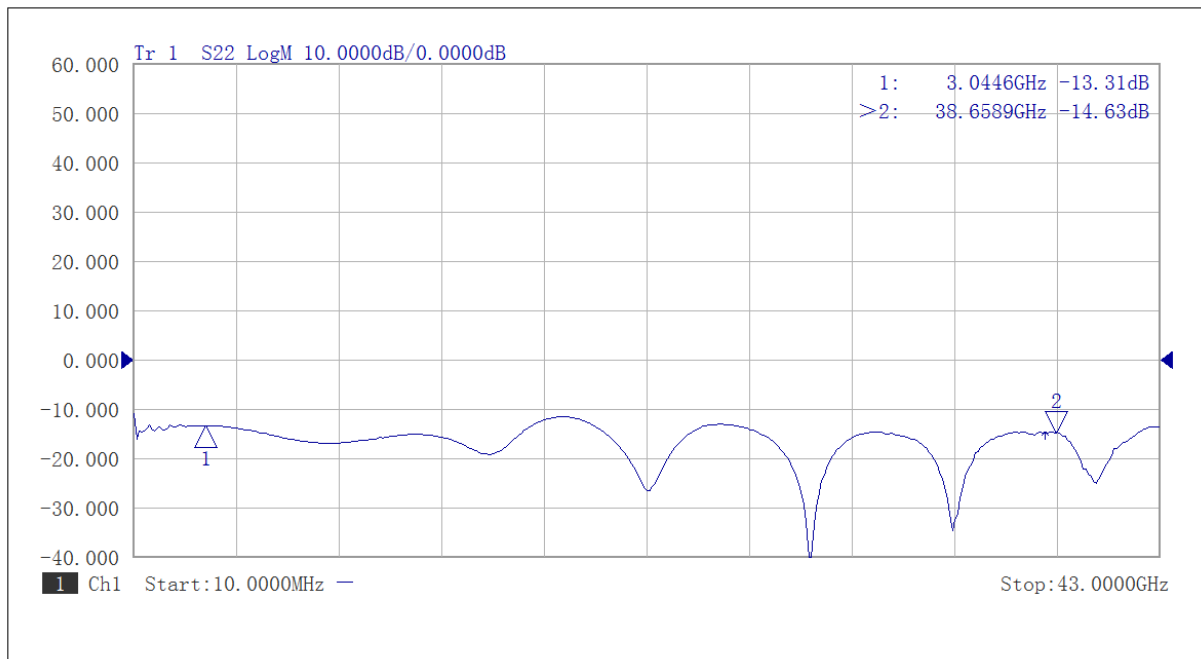


Gain vs Frequency

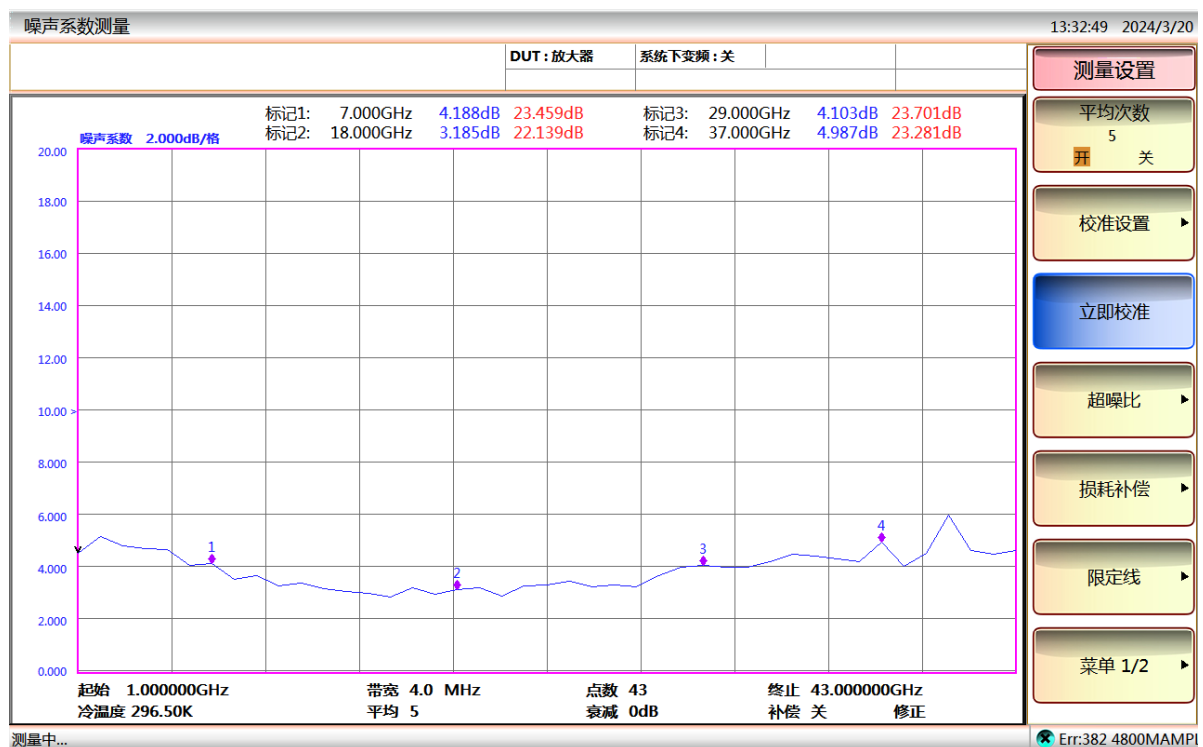


S11 vs Frequency





S22 vs Frequency



NF vs Frequency



Dimension: (unit in mm)

