

10MHz-50GHz Broadband LNA



Product Overview

AT-LNA-0050-3505C is broadband LNA from 10MHz-50GHz with Pout=+13dBm. NF is 4.5dB from 0.1-40GHz, NF no guarantee below 100MHz. The DC power requirement is +5V/360mA. The module is with 2.4mm 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

Advantages

- ✓ Frequency: 10MHz-50GHz
- ✓ 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-50GHz	
Gain	32dB	35dB	
Gain Flatness		+/-2dB	
P1dB	+10dBm	10MHz-43GHz: +12dBm	
Psat	+13dBm	10MHz-43GHz: +15dBm	
NF(1-40GHz)		4.5dB	6.5dB
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Drain Supply		+5V	+8V
Current		360 mA	
Spec Temp		25C	





AT-LNA-0050-3505C

10MHz-50GHz Low Noise Amplifier

Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight (Without Heatsink)	80g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+10 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.

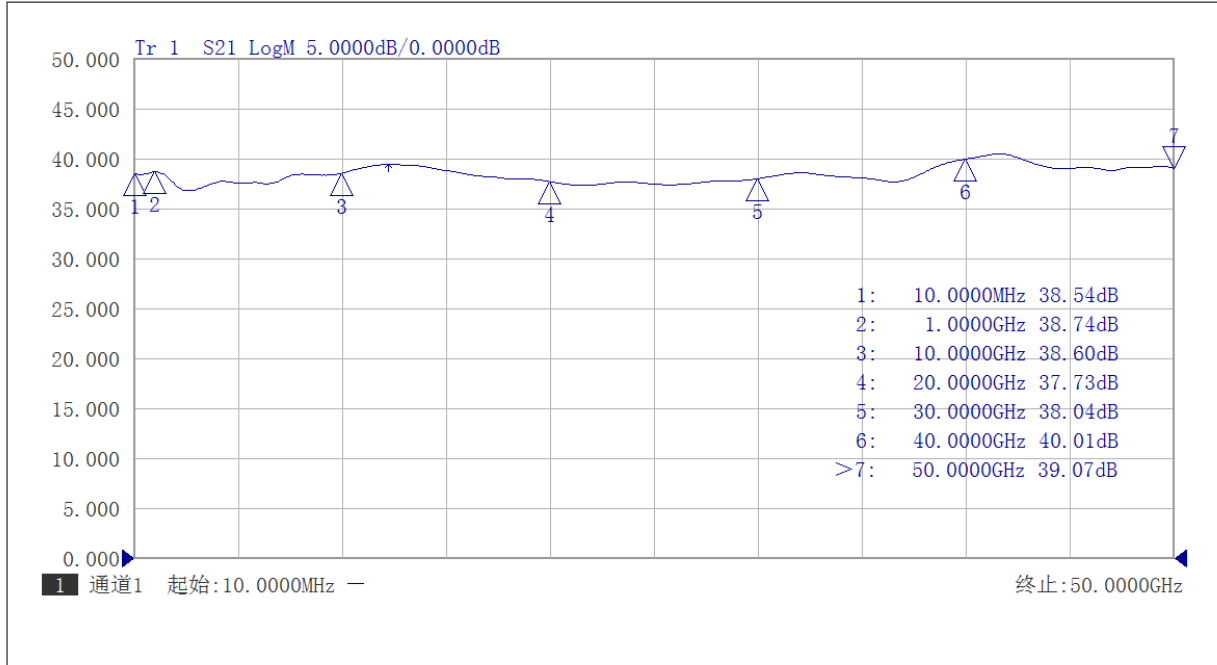
Part Number Selection Guide

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

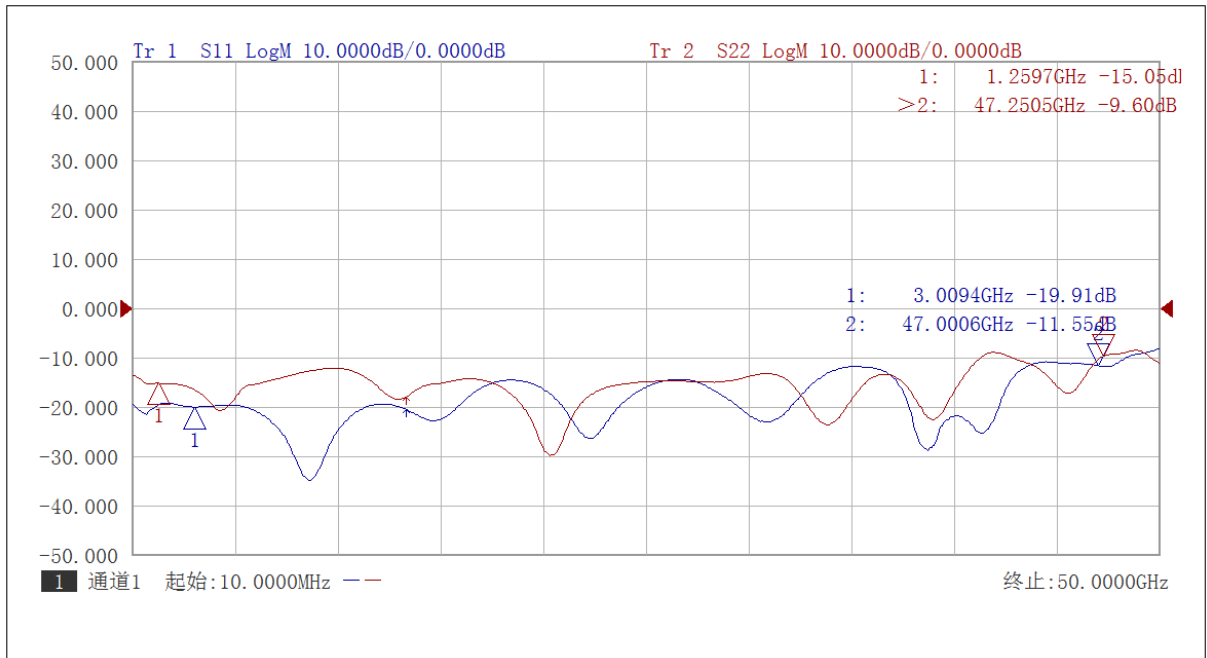


Test Data (25C)

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

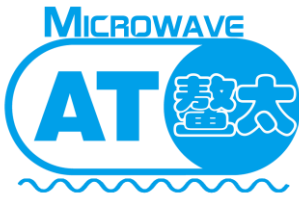


Gain vs Frequency



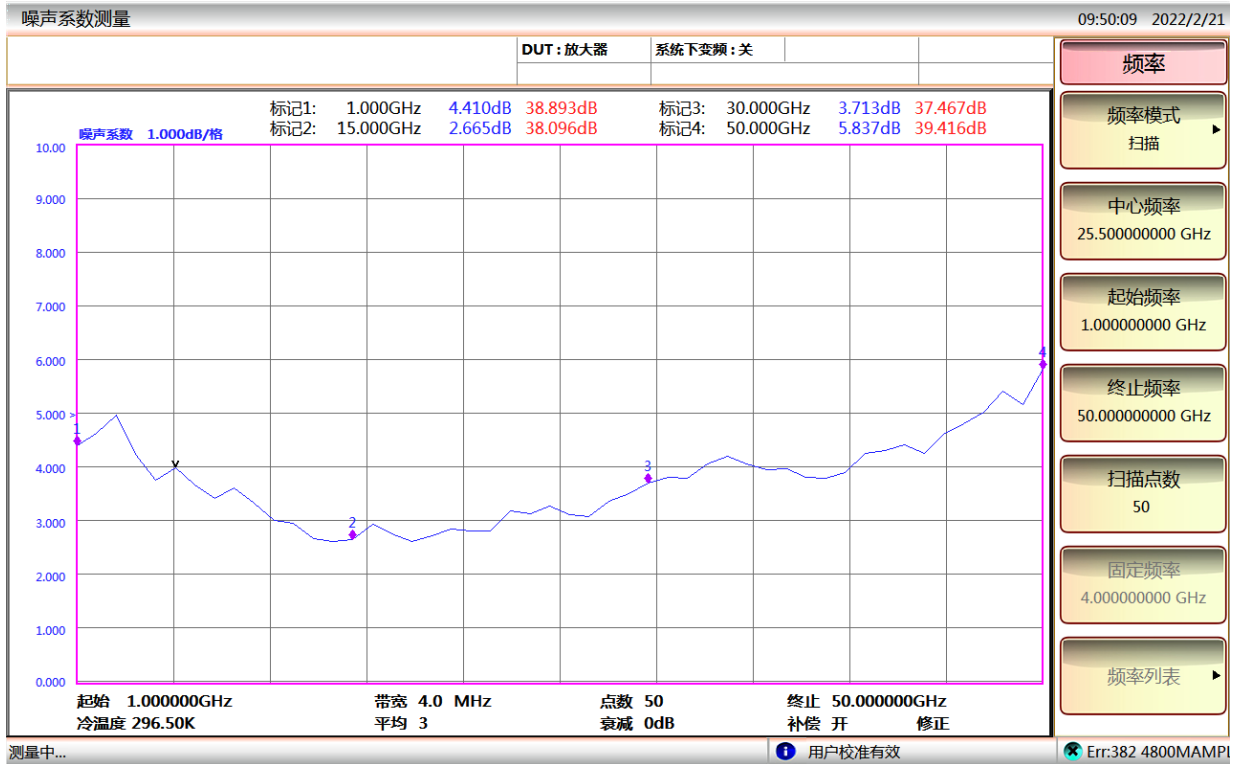
Return Loss vs Frequency



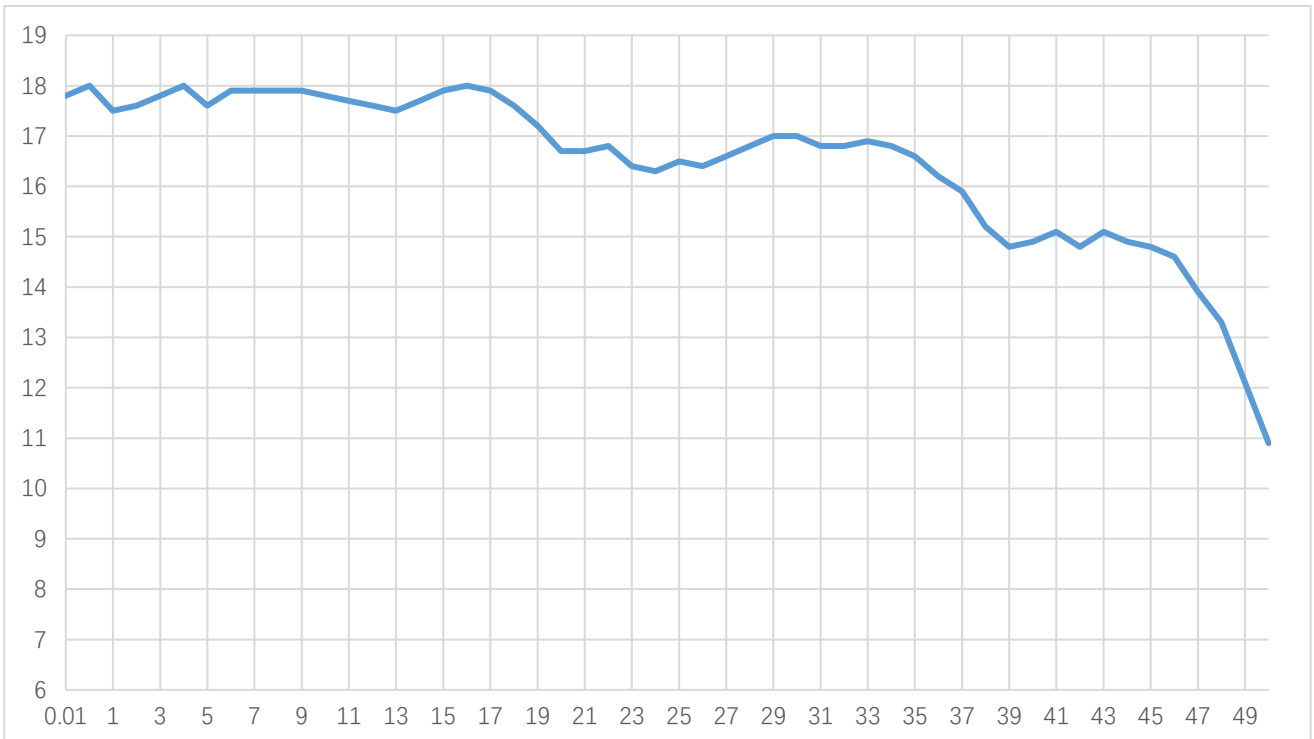


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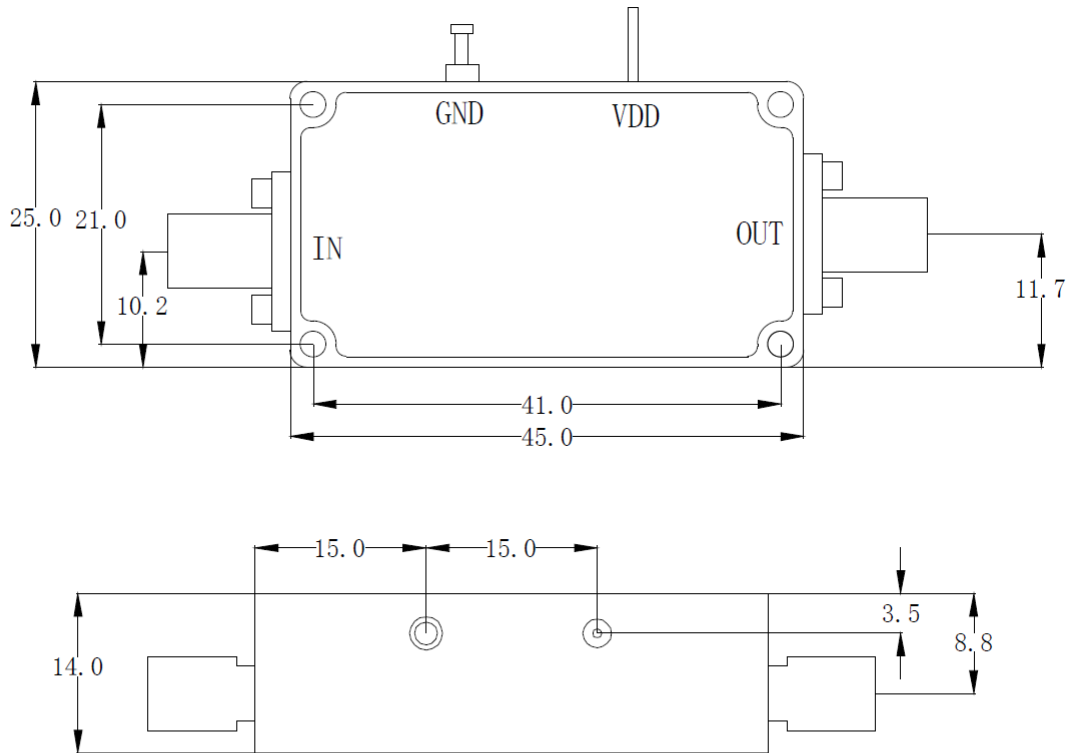
NF vs Frequency 1-50GHz



Psat 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.

