



AT-BTLNA-0043-3505P22

10MHz-43GHz Low Noise Amplifier

10MHz-43GHz Broadband LNA, High Power



Product Overview

AT-BTLNA-0043-3505P22 is broadband LNA from 10MHz-43GHz, with Pout=+22dBm, NF=5dB. It can be used both as Power amplifier or low noise amplifier. The DC power requirement is +220V/0.5A. 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

Advantages

- ✓ Frequency: 10MHz-43GHz
- ✓ NF=5dB
- ✓ Psat:+22dBm
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-43GHz	
Gain	33dB	35dB	
P1dB	+18dBm +16dBm	10MHz-33GHz: +20dBm 33-43GHz: +18dBm	
Psat	+20dBm +17dBm	10MHz-33GHz: +22dBm 33-43GHz: +20dBm	
NF		0.1-26.5GHz, 5dB 26.5-40GHz, 6dB	6dB 8dB
Drain Supply	90V	+220V	260V
Power Consumption		20W	
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	Aluminum
Finish	Painting
Weight	1.6kg
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+260V
RF Input Power	+15 dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

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.



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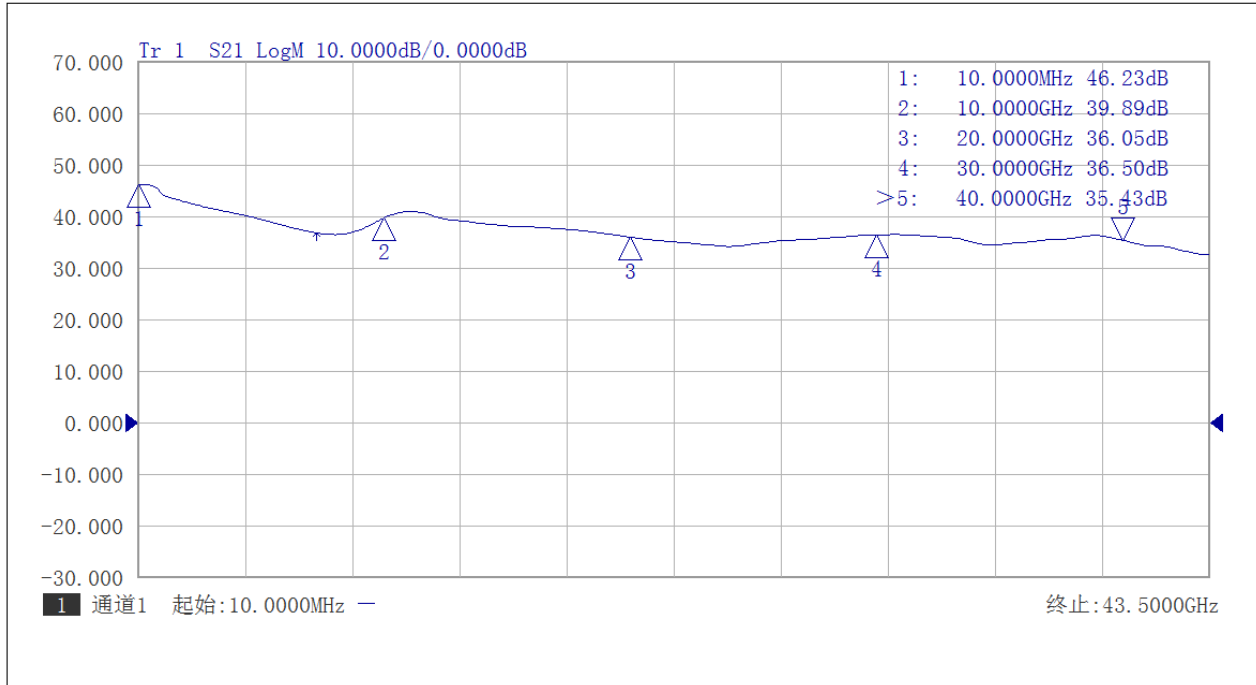
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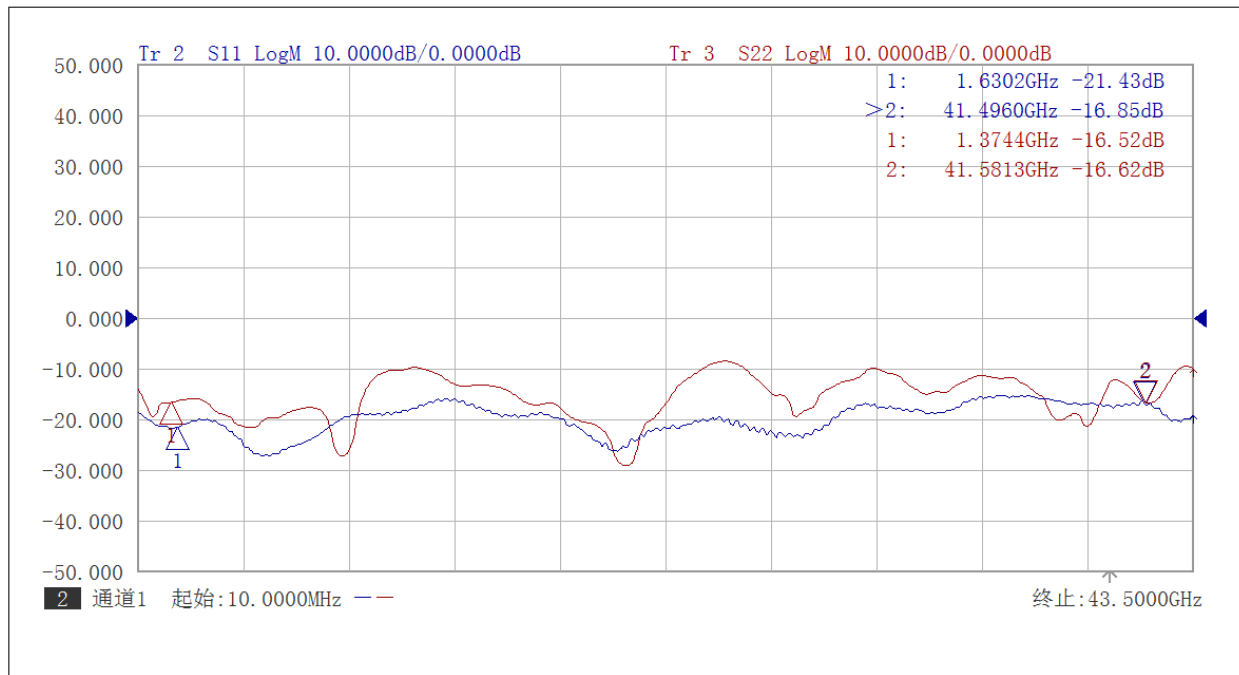
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Test Data



Gain vs Frequency



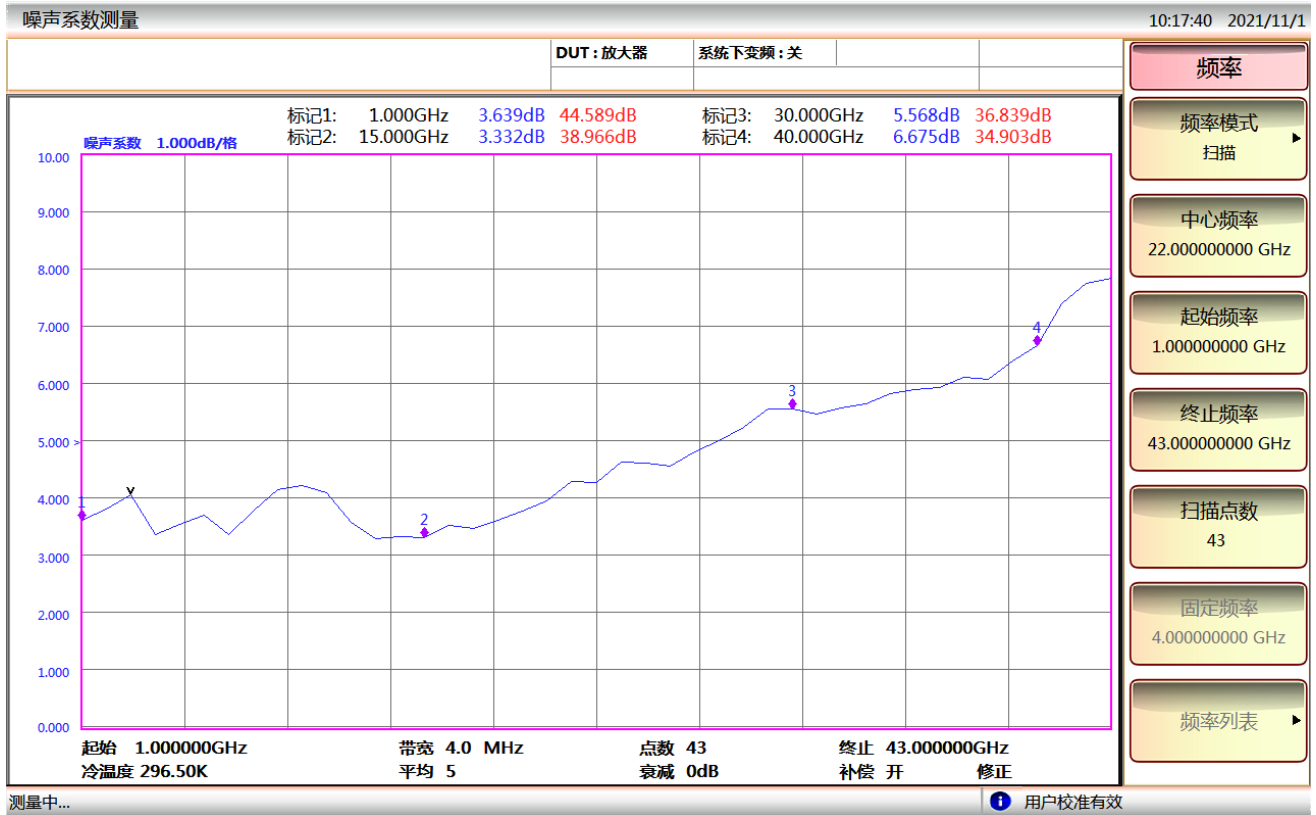
Return Loss vs Frequency



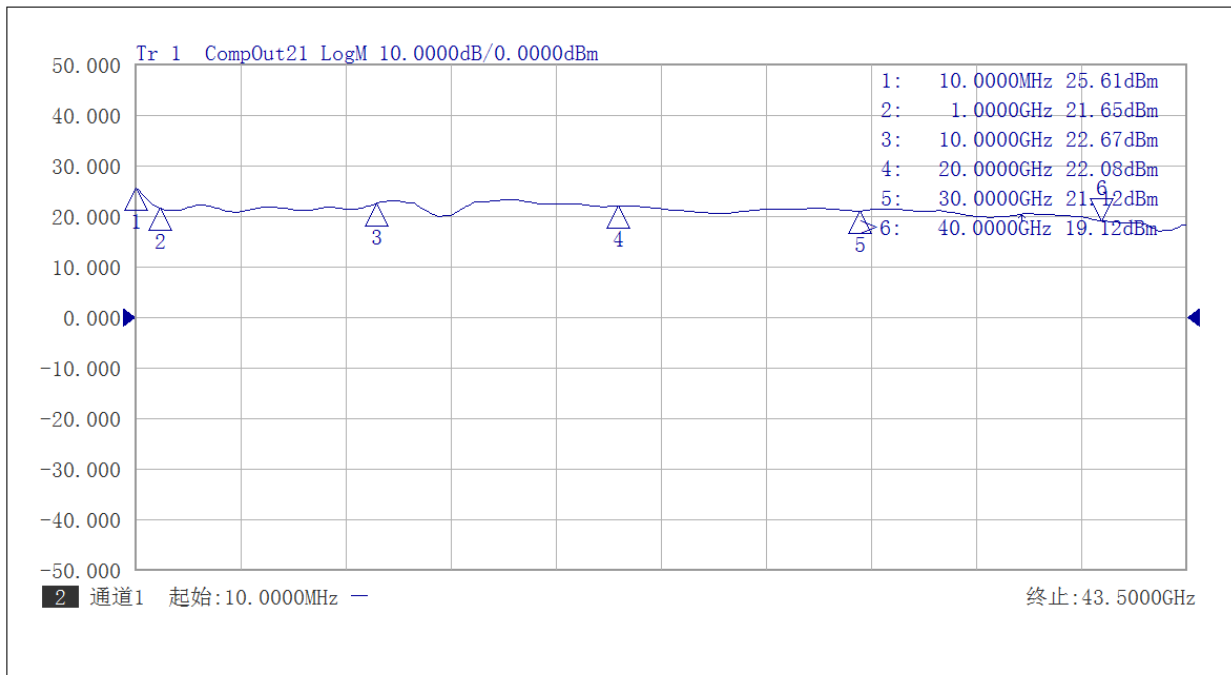


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NF Test from 1GHz to 43GHz



P1dB vs Frequency



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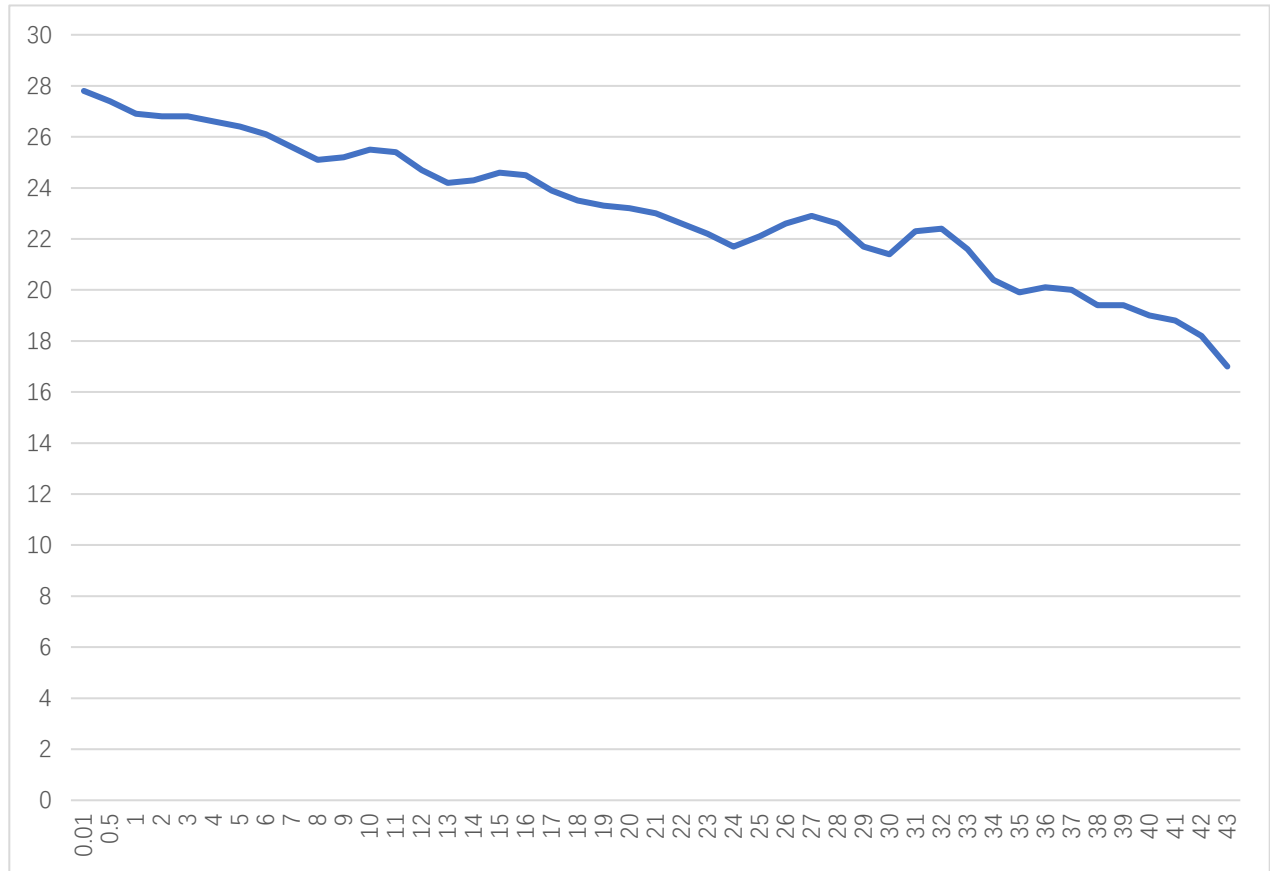
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PSAT vs Frequency



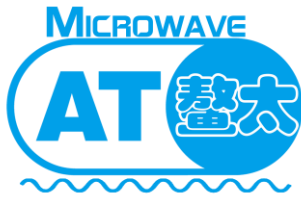
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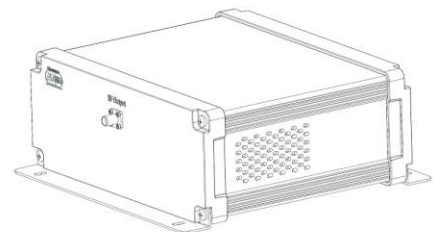
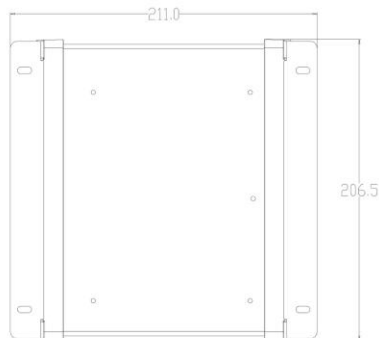
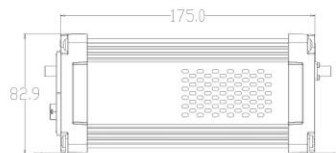
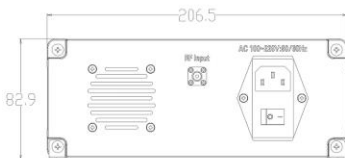
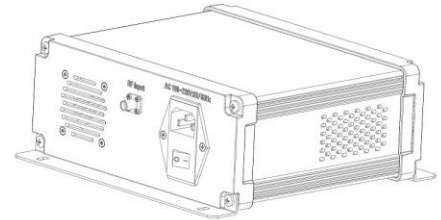
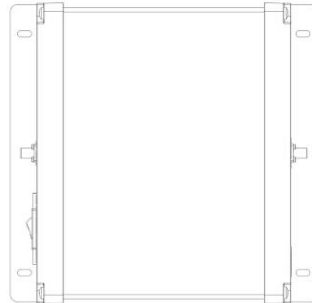




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Dimension: (unit in mm)



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