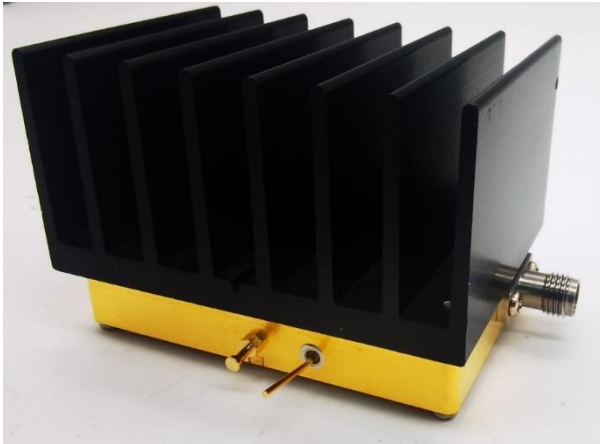




AT-LNA-0043-5304HP

10MHz-43GHz Low Noise Amplifier

10MHz-43GHz 53dB High Gain Low Noise Amplifier



Product Overview

AT-LNA-0043-5304C is high gain low noise amplifier with 53dB gain in the frequency of 0.01-43GHz. The NF performance is 4dB from 100MHz to 40GHz. The DC power requirement is +8V/530mA. The module is with 2.92mm connector.

The high gain LNA can be used in 5G communication, Optical communication and test equipment ,ects.

For more information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 0.01-43GHz
- ✓ Small signal gain: 53dB
- ✓ NF=4dB, 0.1-40GHz
- ✓ Pout=+20dBm

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-43GHz	
Gain	47dB	53dB	
Gain Flatness(0.1-40GHz)		+/- 3dB	
NF(0.1-40GHz)		4	6.5
P1dB		+20dBm	
Psat		+22dBm	
Drain Supply		+8V	+12V
Idd		0.5A	
Input Return Loss	-5	-10dB	
Output Return Loss	-5	-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 (Without Heatsink)	80g
Size:	55x34x9.5 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+15 dBm
Operating Temperature(note)	-20 to + 70C
Storage Temperature	-65 to +153C

Note: -43 to +85C is available according to request.

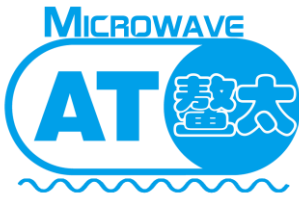
Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +53C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

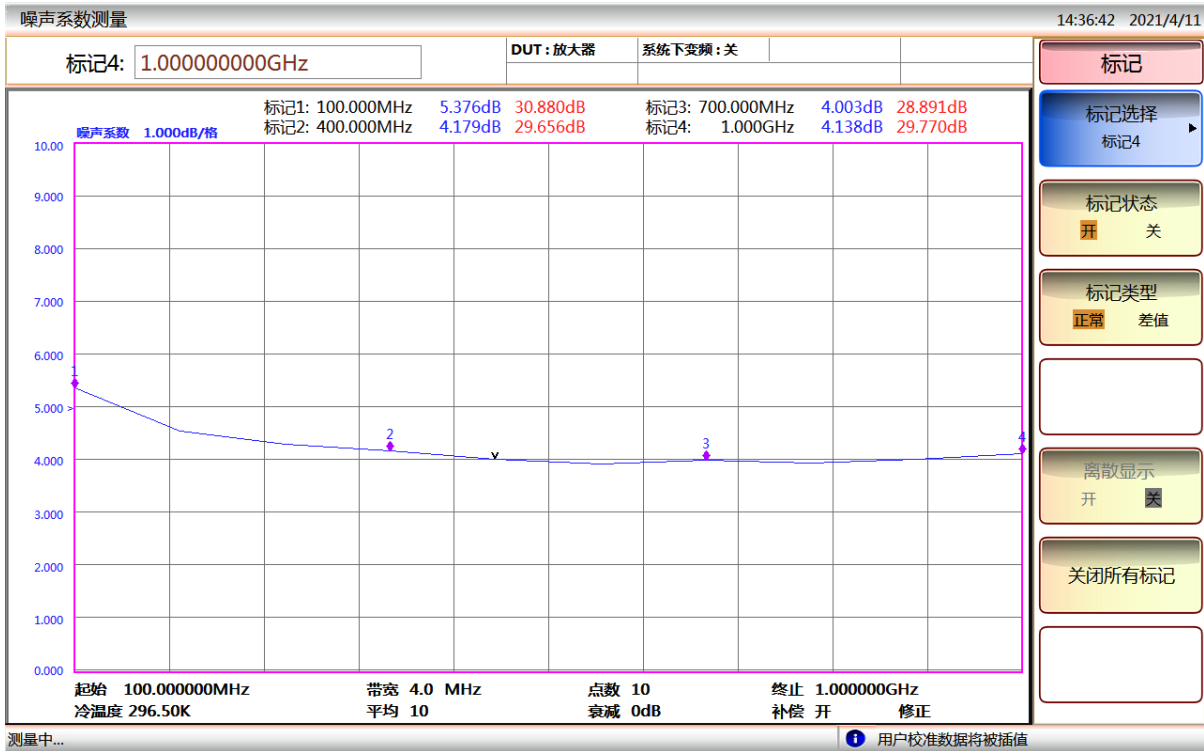
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



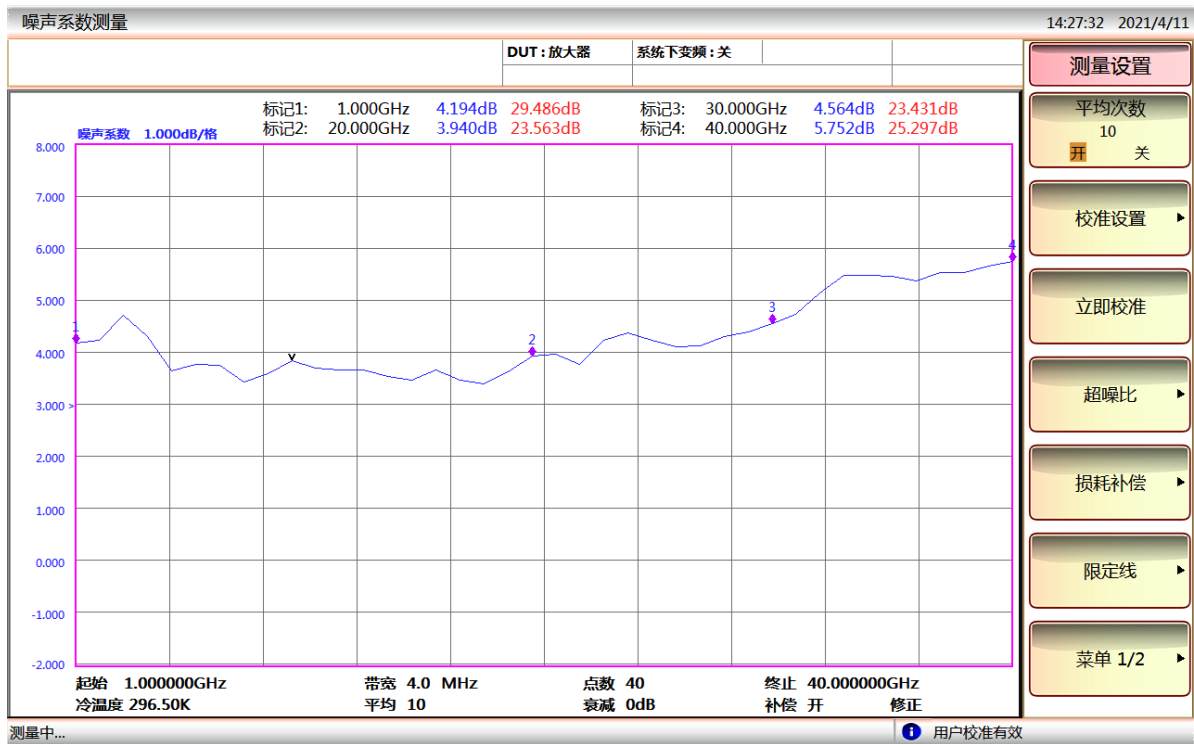


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10MHz-43GHz Low Noise Amplifier



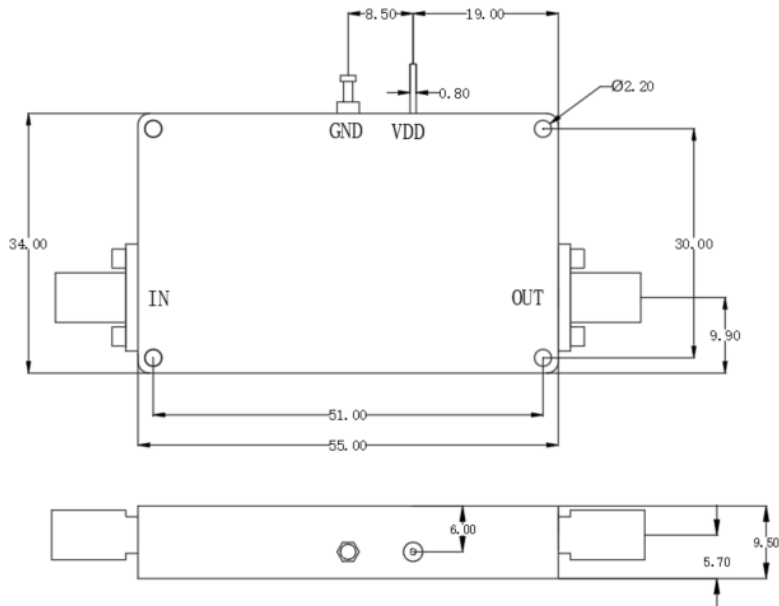
NF test 100MHz to 1GHz



NF Test from 1GHz to 43GHz



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.

Heatsink required during operation

