

15-26.5GHz Super-Low NF Low Noise Amplifier



Product Overview

AT-LNA-1526-3002Y is super low NF, broadband low noise amplifier from 15GHz to 26.5GHz. The NF is 2dB for the full-band. The DC power requirement is +5V/120mA. It also works with power supply from +5V to +8V. 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: 15-26.5GHz
- ✓ Small signal gain: 30dB
- ✓ Noise Figure: 2.1 dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		15-26.5GHz	
Gain	28dB	30dB	
Gain Flatness		+/-0.75dB	+/-1.5dB
NF		2.1dB	2.5dB
P1dB		+10dBm	
Psat		+12dBm	
Drain Supply		+5V	+8V
Current		120 mA	150mA
Input Return Loss	-6	-10 dB	
Output Return Loss	-6	-12 dB	
Spec Temp		25C	





AT-LNA-1526-3002Y

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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 (Without Heatsink)	50g
Size:	30x30x14 mm

Absolute Maximum Ratings Table

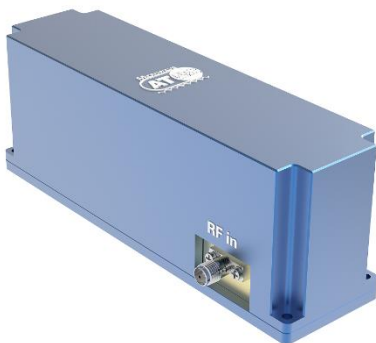
Parameter	Value
Drain Supply	+13V
RF Input Power	+10dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

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.

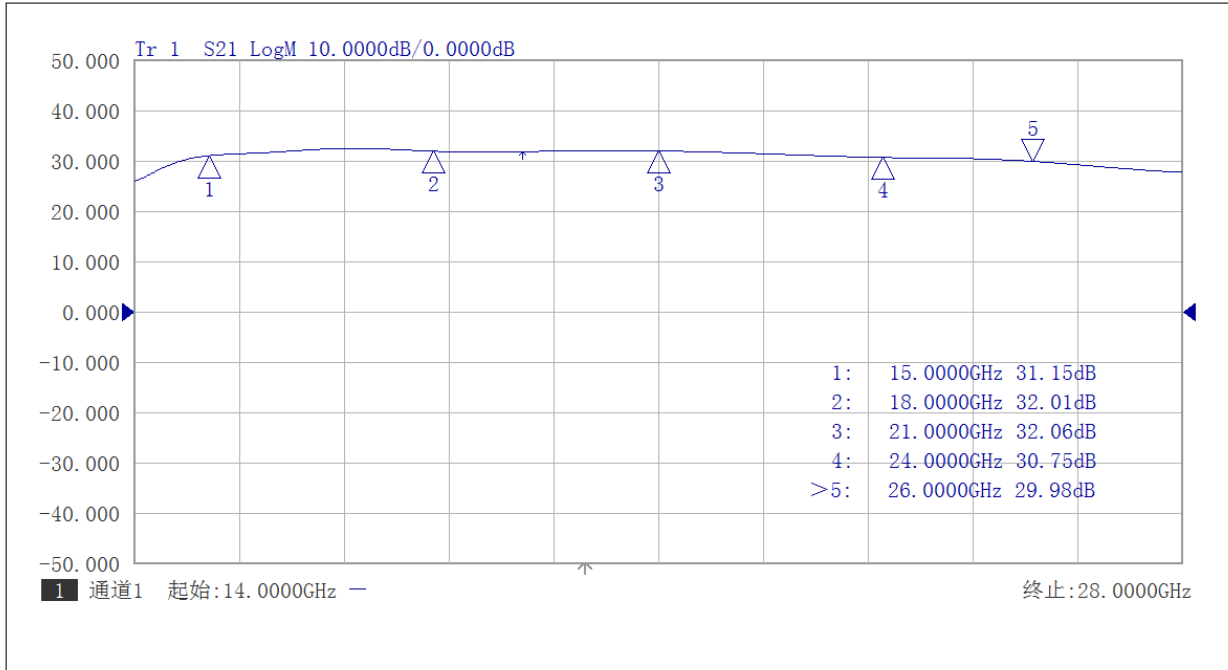
Part Number Selection Guide

Item	Description
AT-LNA-1526-3002Y	Stand Module with DC Power Supply
AT-LNA-1526-3002Y-LCBT	Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter

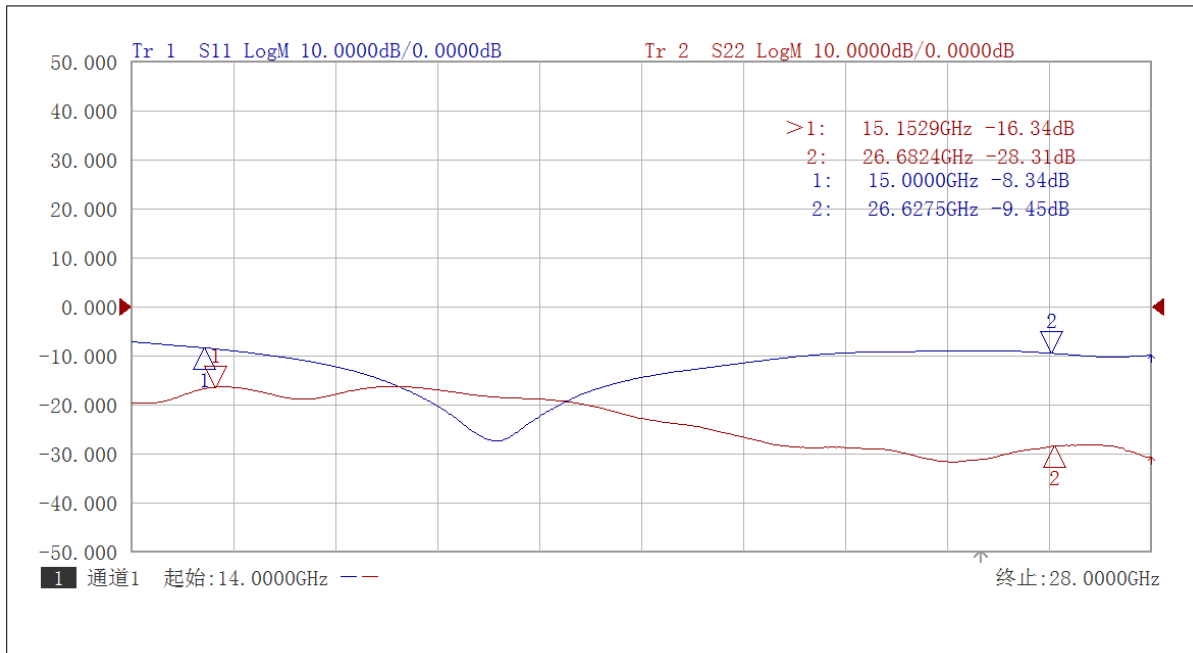


Test Data (25C)

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

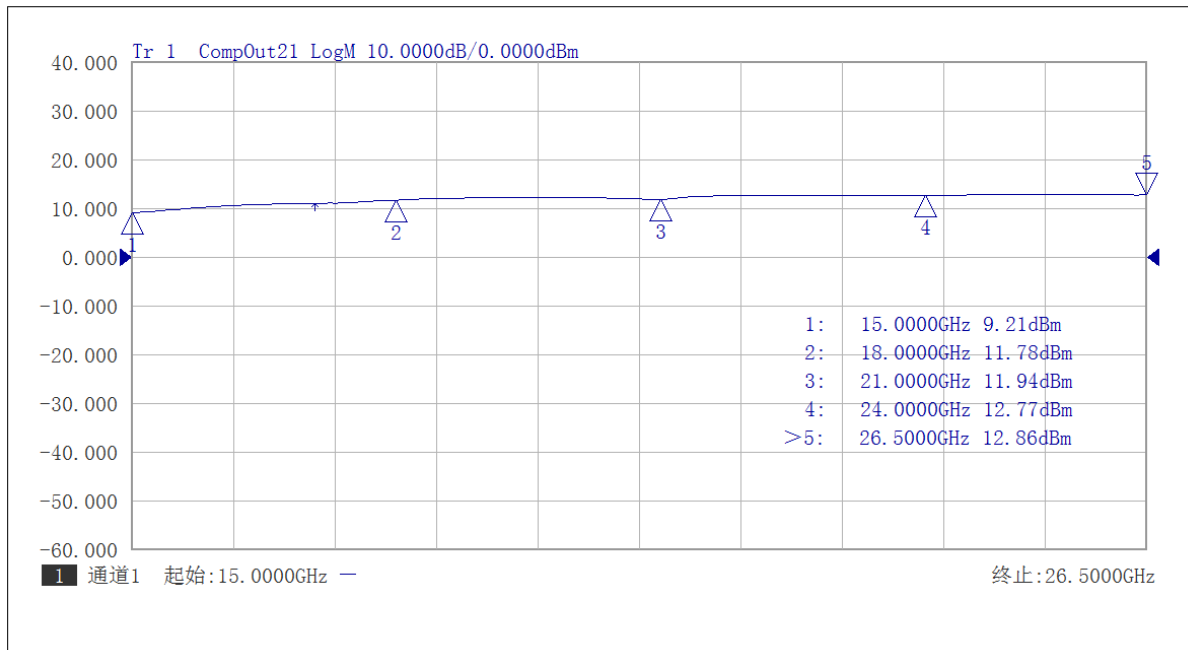


Gain vs Frequency

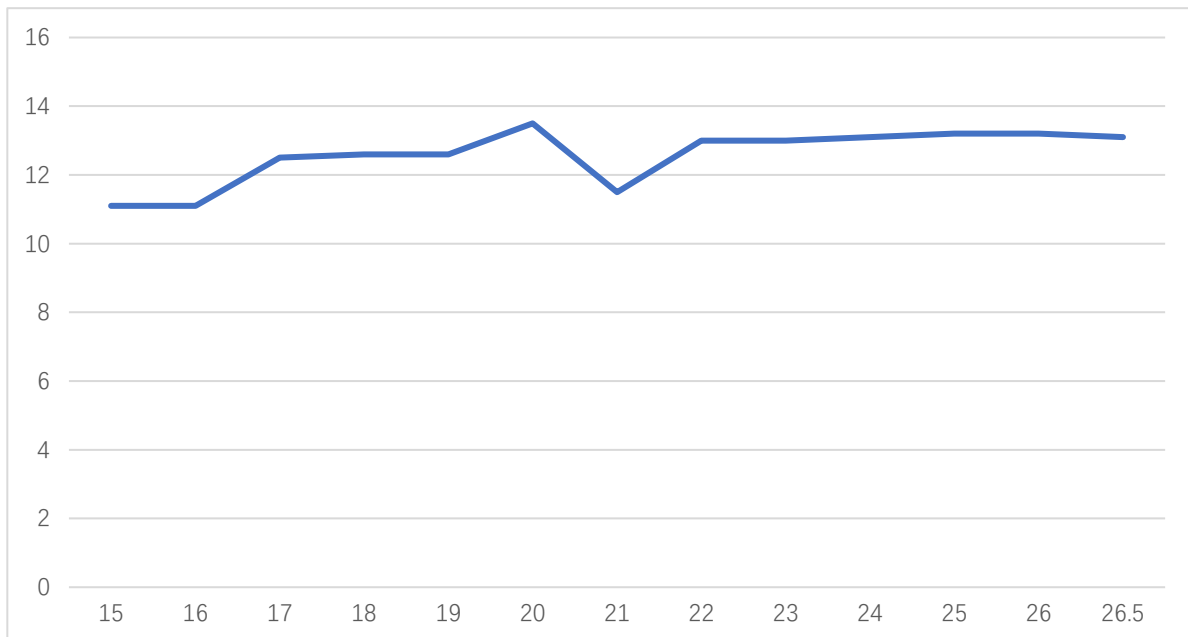


Return Loss vs Frequency





P1Db vs Frequency



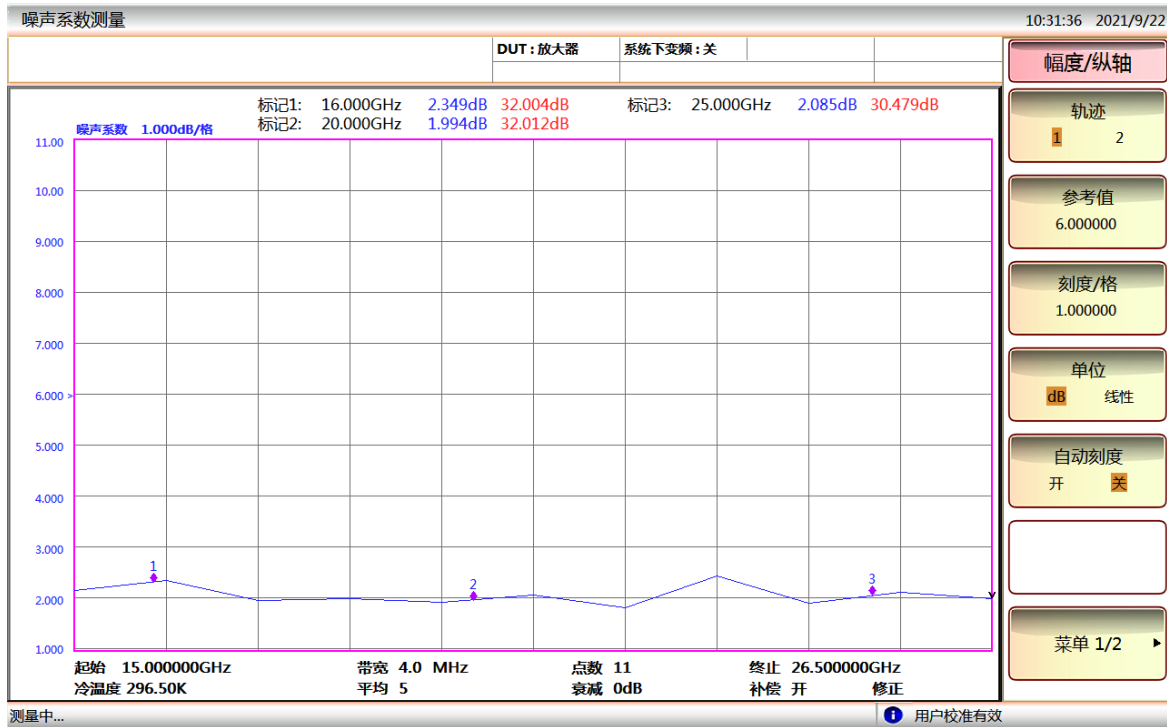
Psat vs Frequency





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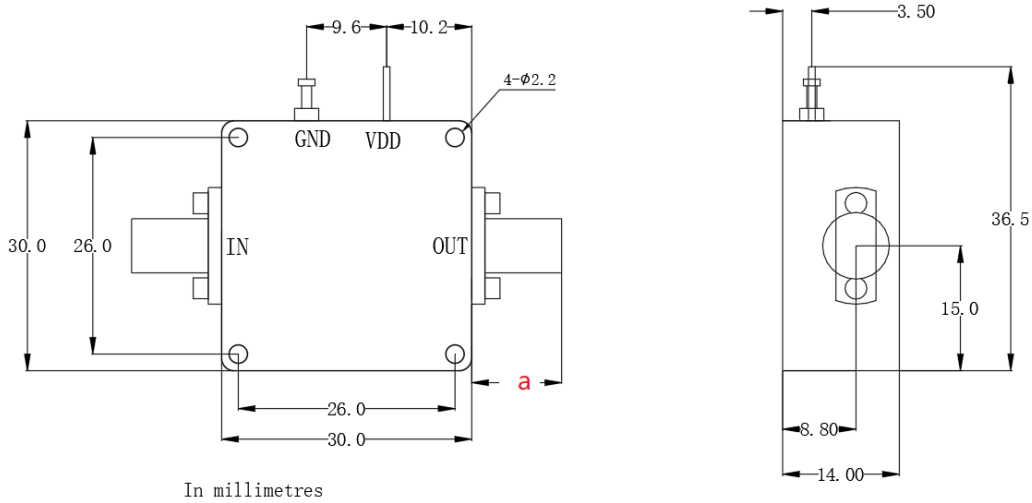
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NF vs Frequency



Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Length of a	9.4mm	9.5mm	10.8mm	11.3mm

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

-LCBT Option Dimension: (unit in mm)

