

22-44GHz Low Noise Amplifier



Product Overview

AT-LNA-2244-2325 is high gain low noise amplifier with 23dB gain in the frequency of 22-44GHz. The DC power requirement is +5V/50mA. The module is with 2.4mm Female connector.

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: 22-44GHz
- ✓ Small signal gain: 23dB
- ✓ NF=2.5dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		22-44GHz	
Gain	20	23 dB	
Gain Flatness		+/-1.5dB	
Input Power		-30dBm	-10dBm
NF		2.5	3.5
P1Db		+5dBm	
Psat		+6dBm	
Drain Supply		+5V	+8V
Current		50 mA	80mA
Input Return Loss	-5	-10 dB	
Output Return Loss	-5	-10 dB	
Spec Temp		25C	





AT-LNA-2244-2325

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Mechanical Information

Item	Description
Input Port	2.4mm/2.92mm Female
Output Port	2.4mm/2.92mm Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight (Without Heatsink)	80g
Size:	30x30x14 mm

Order Information

Part Number	Description
AT-LNA-2244-2325	2.4mm Female, In default
AT-LNA-2244-2325-29	2.92mm Female Connector

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+0 dBm
Operating Temperature(note)	-20 to + 70C
Storage Temperature	-65 to +150C

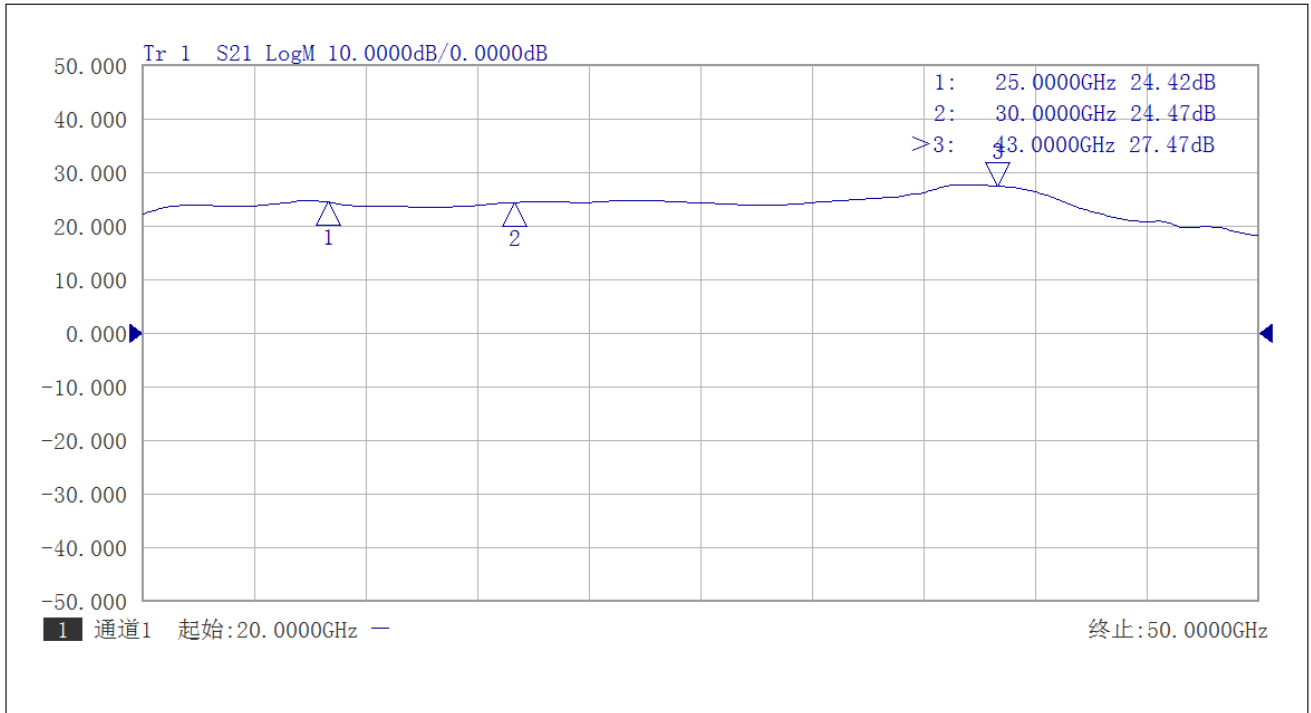
Note: -40 to +85C is available according to request.

Part Number Selection Guide

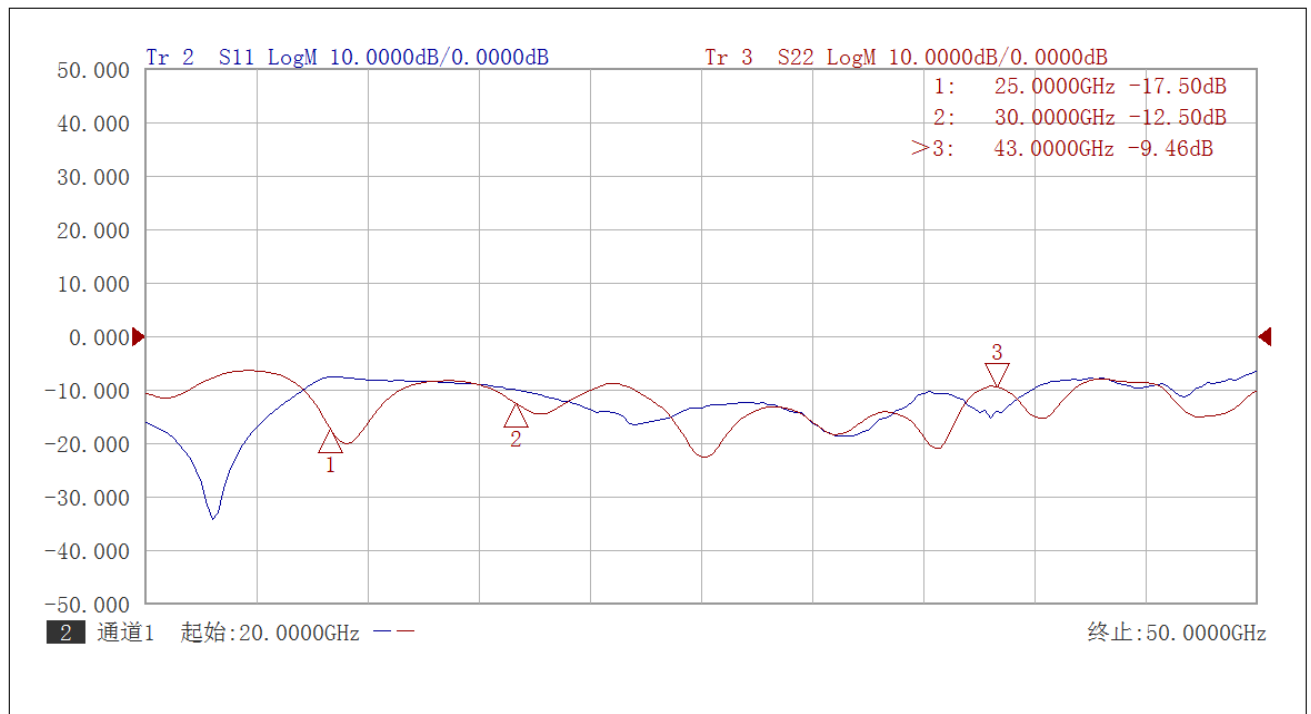
Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



Test Data

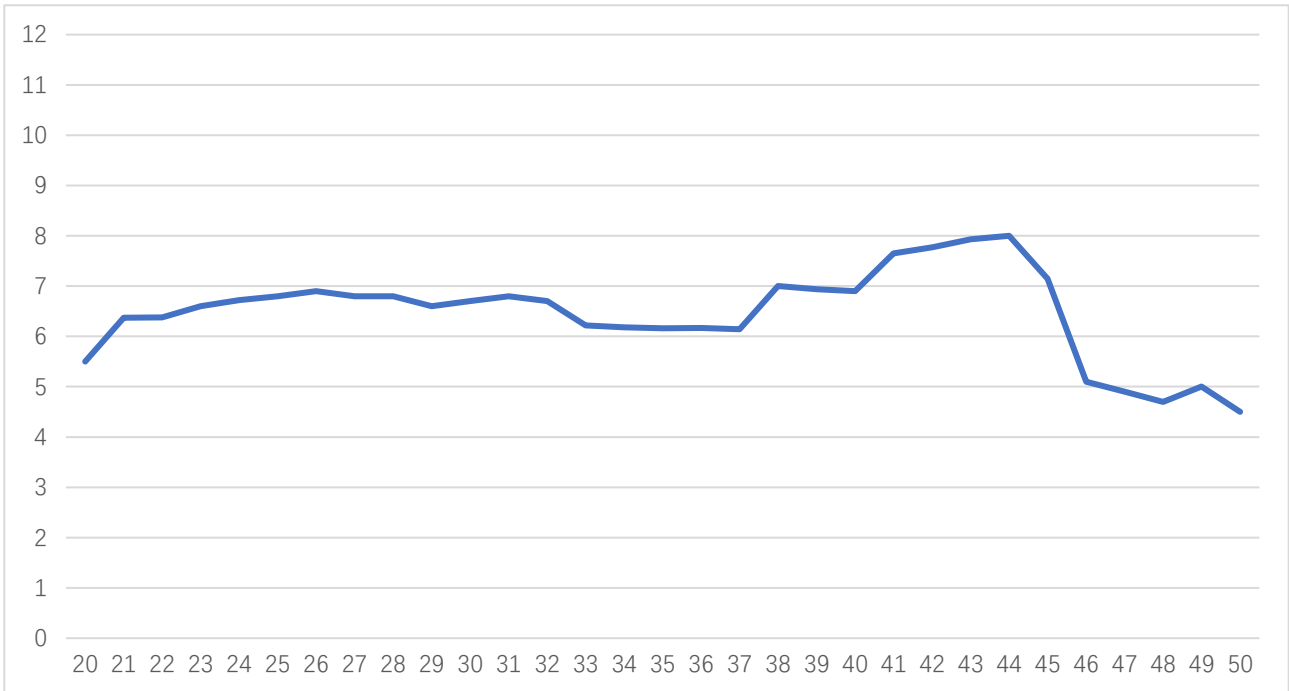


Gain vs Frequency

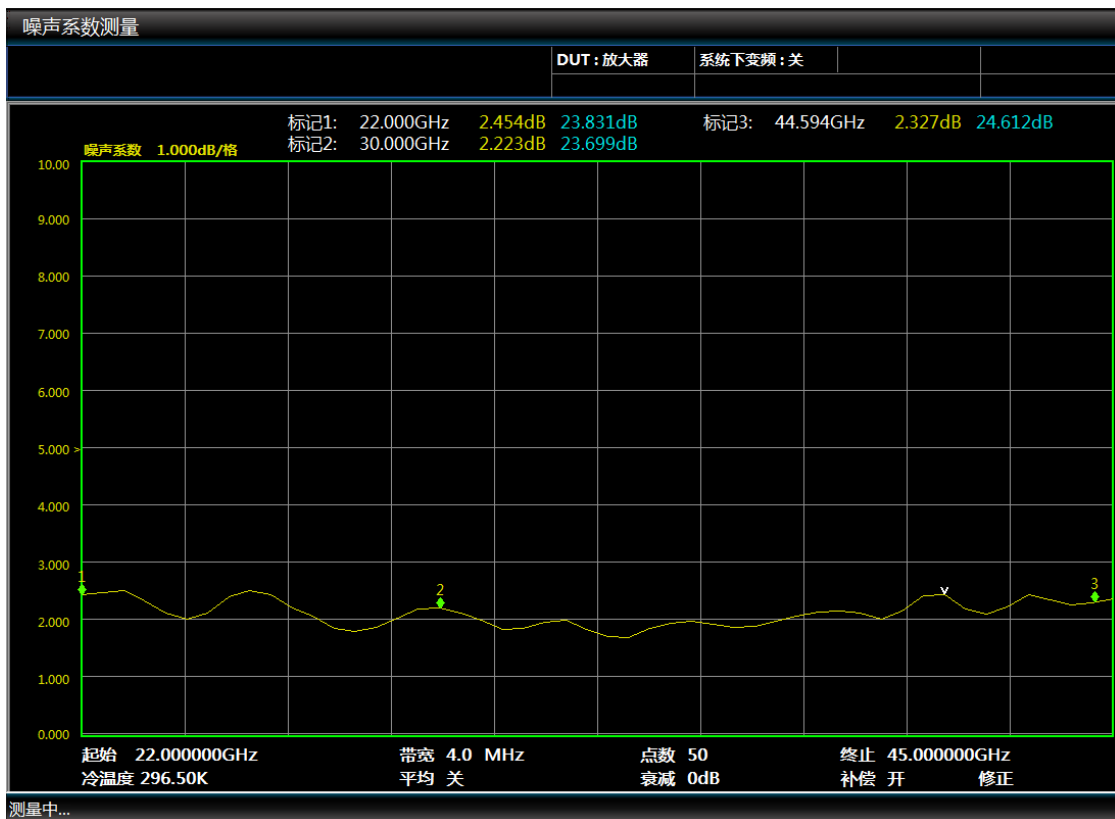


Return Loss vs Frequency





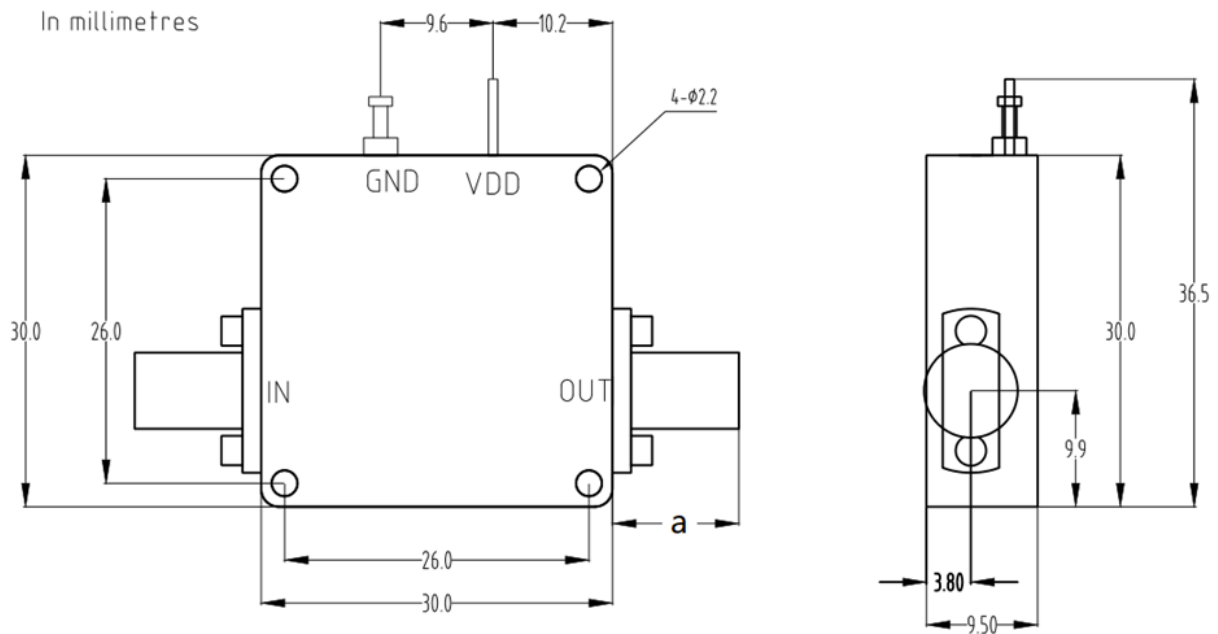
Psat vs Frequency at Pin=-10dBm



NF 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.

