

## 22-44GHz Low Noise Amplifier



### Product Overview

AT-LNA-2244-3825 is high gain low noise amplifier with 38dB gain in the frequency of 22-44GHz. The DC power requirement is +5V/150mA. 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. If you don't find what you need, just send us email [sales@atmicrowave.com](mailto:sales@atmicrowave.com)

### Advantages

- ✓ Frequency: 22-44GHz
- ✓ Small signal gain: 38dB
- ✓ 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	35	38 dB	
Gain Flatness		+/-2dB	
NF		2.5dB	3.5
P1Db		+13dBm	
Psat		+15dBm	
Drain Supply		+5V	+8V
Current		150 mA	180mA
Input Return Loss	-5	-10dB	
Output Return Loss	-5	-10dB	
Spec Temp		25C	





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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

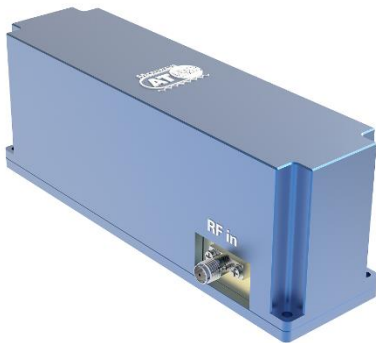
Part Number	Description
AT-LNA-2244-3825	2.4mm Female, In default
AT-LNA-2244-3825-29F29F	2.92mm Female Connector

### Absolute Maximum Ratings Table

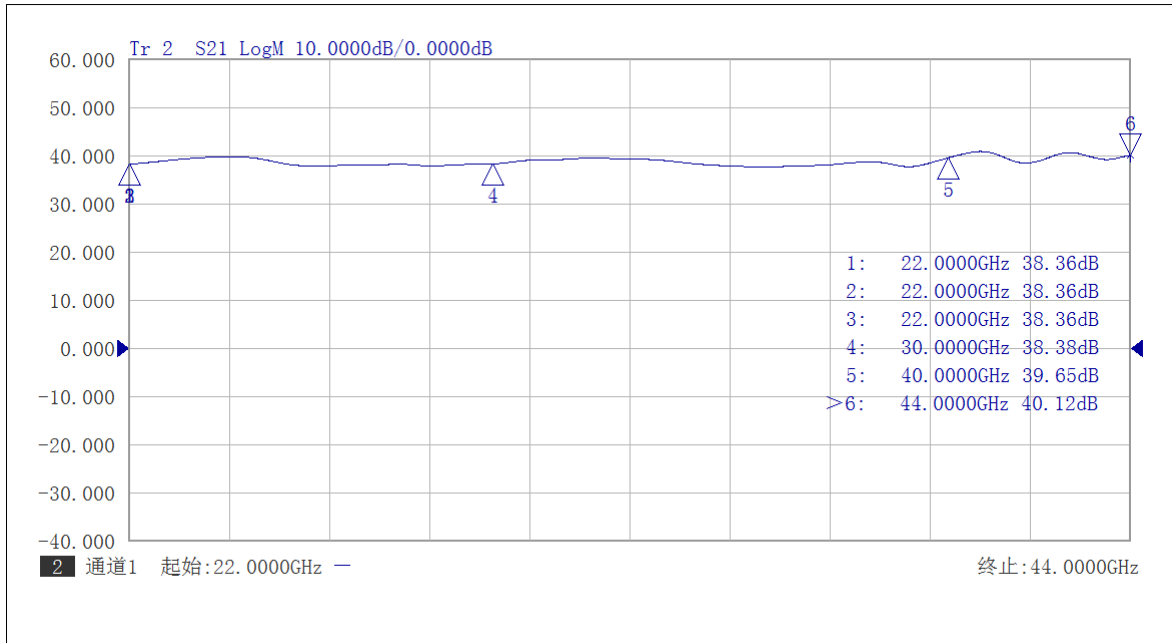
Parameter	Value
Drain Supply	+13V
RF Input Power	+0 dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

### Part Number Selection Guide

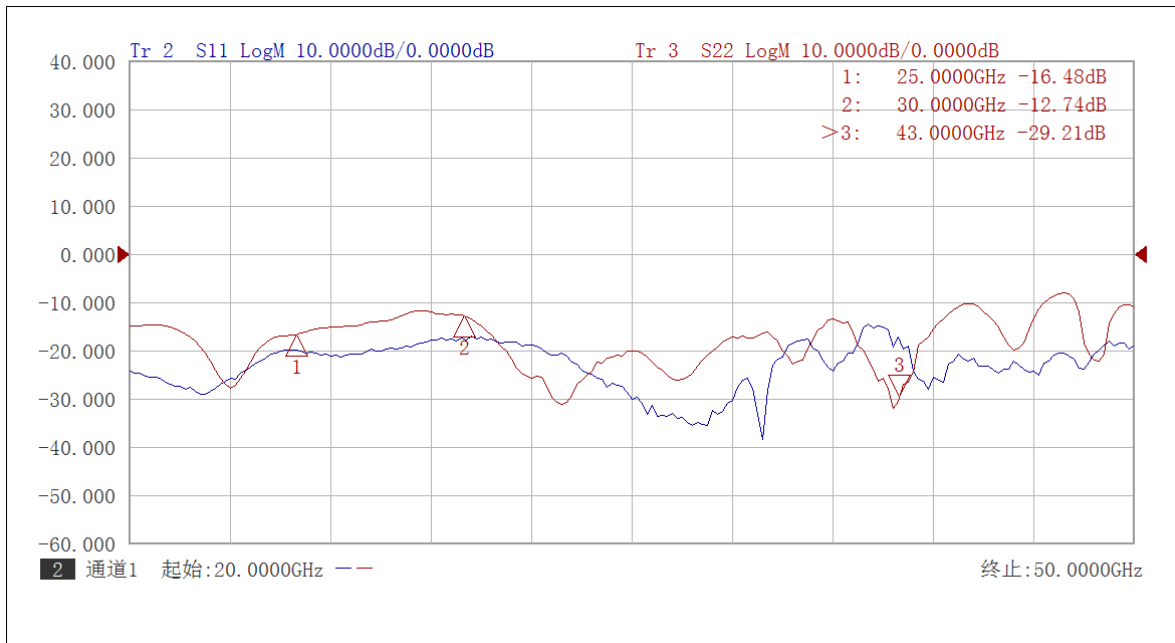
Item	Description
PN	Stand Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter



### Test Data(25C)



Gain vs Frequency



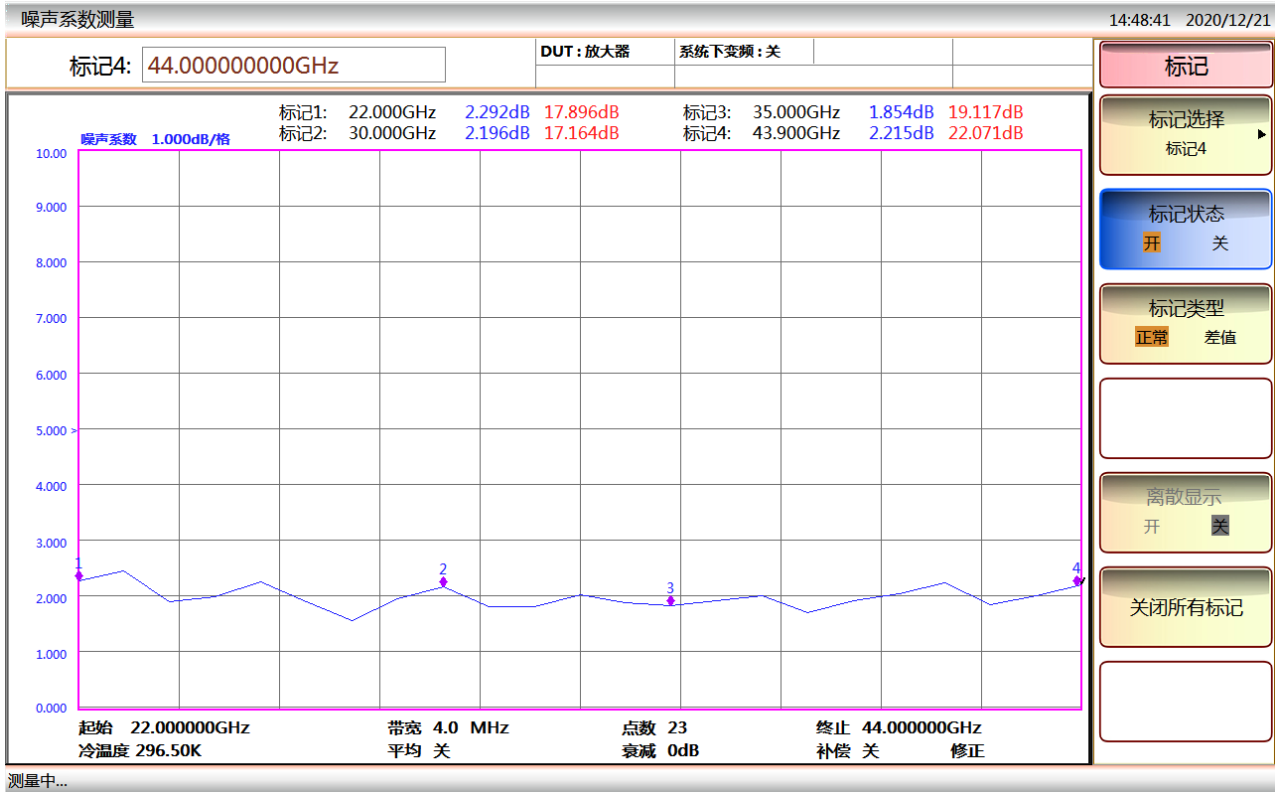
Return Loss vs Frequency



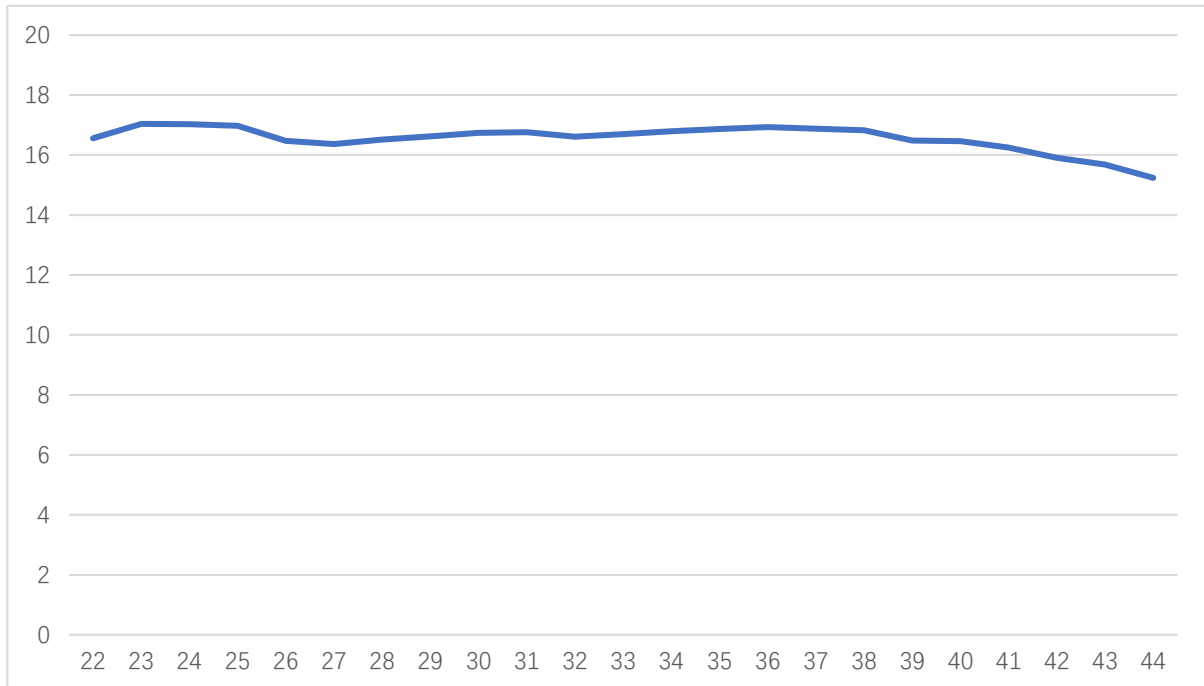


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NF vs Frequency



Psat vs Frequency

Shanghai AT Microwave Limited

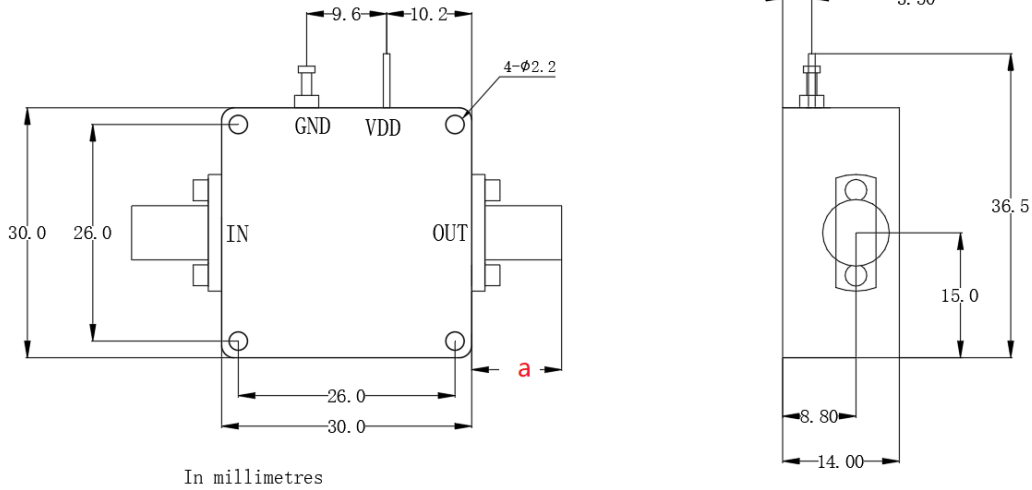
Tel:021-6229 1233

Email:sales@atmicrowave.com

www.atmicrowave.com



**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.

