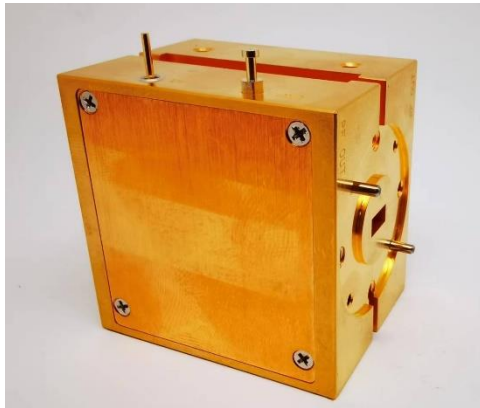


### 33-50GHz Broadband Low Noise Amplifier

Gain=38dB, NF=2.8dB, WR-22



#### Product Overview

AT-LNA-3350-3825T is low noise amplifier with 38dB gain in the frequency of 33-50GHz. The DC power requirement is +5V/195mA. The module is with a standard WR-22 waveguide.

The LNA has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Advantages

- ✓ Frequency: 33-50GHz
- ✓ Small signal gain: 38dB
- ✓ NF 2.8dB
- ✓ Single Power Supply

#### Application

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

#### Key Features

Parameter	Min	Typical	Max
Frequency		33-50GHz	
Gain	35	38dB	
Drain Supply		+5V	+8V
NF		2.8dB	3.5
P1		+10dBm	
Psat		+12dBm	
Current		150 mA	210mA
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





# AT-LNA-3350-3828T

Q Band Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	WR-22
Output Port	WR-22
Case Material	Copper
Finish	Gold Plated
Weight	200g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

## 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.

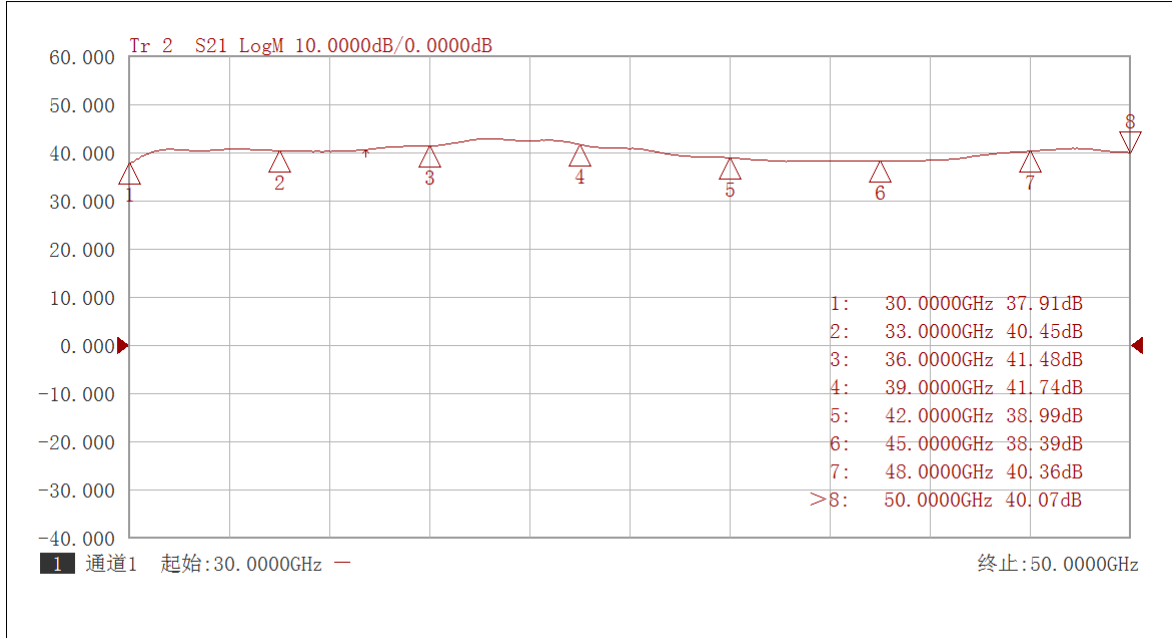
## Part Number Selection Guide

Item	Description
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)

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

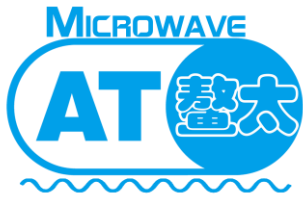


Gain vs Frequency



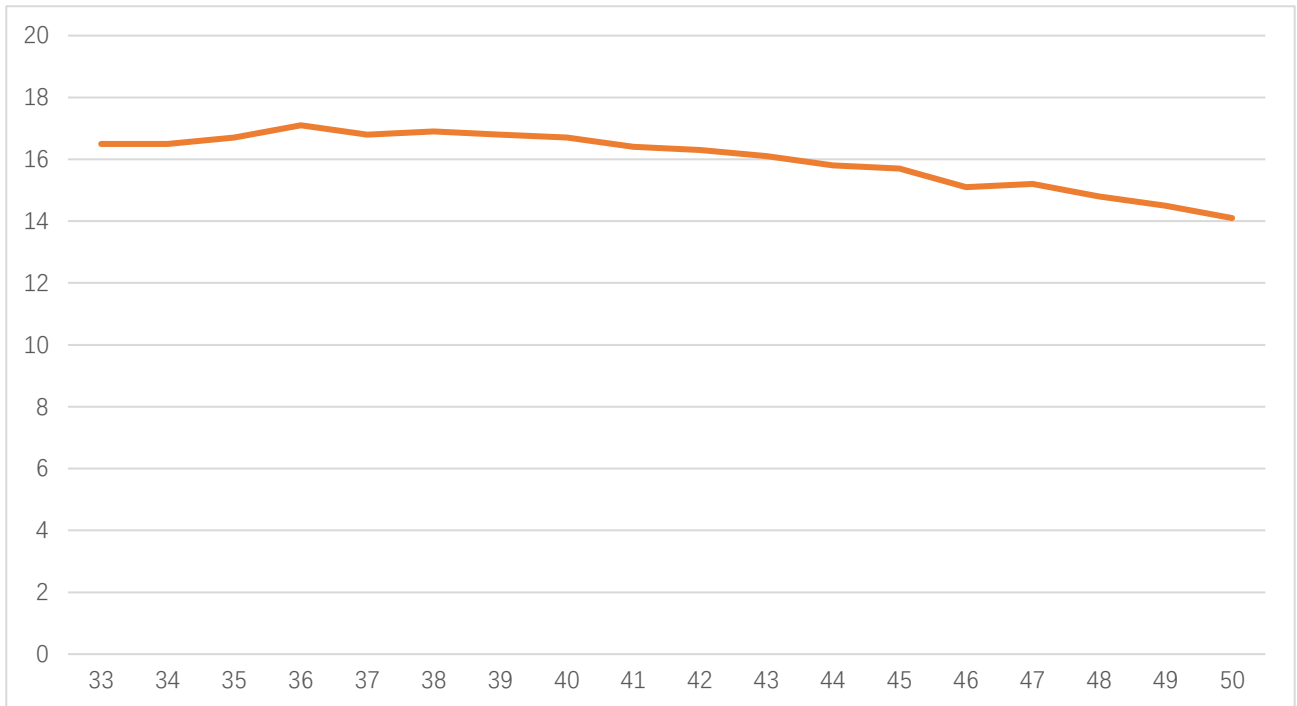
NF vs Frequency





# AT-LNA-3350-3828T

Q Band Low Noise Amplifier



Psat vs Frequency



**Dimension:** (unit in mm)

