

## Full D Band LNA, 18dB Gain, NF=6dB



### Product Overview

AT-LNA-110170-1806T is a low noise amplifier operating in the 110-170 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-06.

MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result. Higher gain amplifier can be achieved.

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

### Advantages

- ✓ Frequency: 110-170GHz
- ✓ High Gain: 18dB
- ✓ NF: 6dB
- ✓ Single Supply

### Application

- ✓ D Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency	110GHz		170GHz
Gain	14dB	18dB	
Noise Figure		6dB	8dB
Pin		-20dBm	-10dBm
Output P1dB		-3dBm	
Psat		+0dBm	
Drain Supply		+5V	+6V
Current		30mA	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





# AT-LNA-110170-1806T

110-170GHz Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	WR-06
Output Port	WR-06
Case Material	Copper
Finish	Gold Plated
Weight	75g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+8dBm
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.

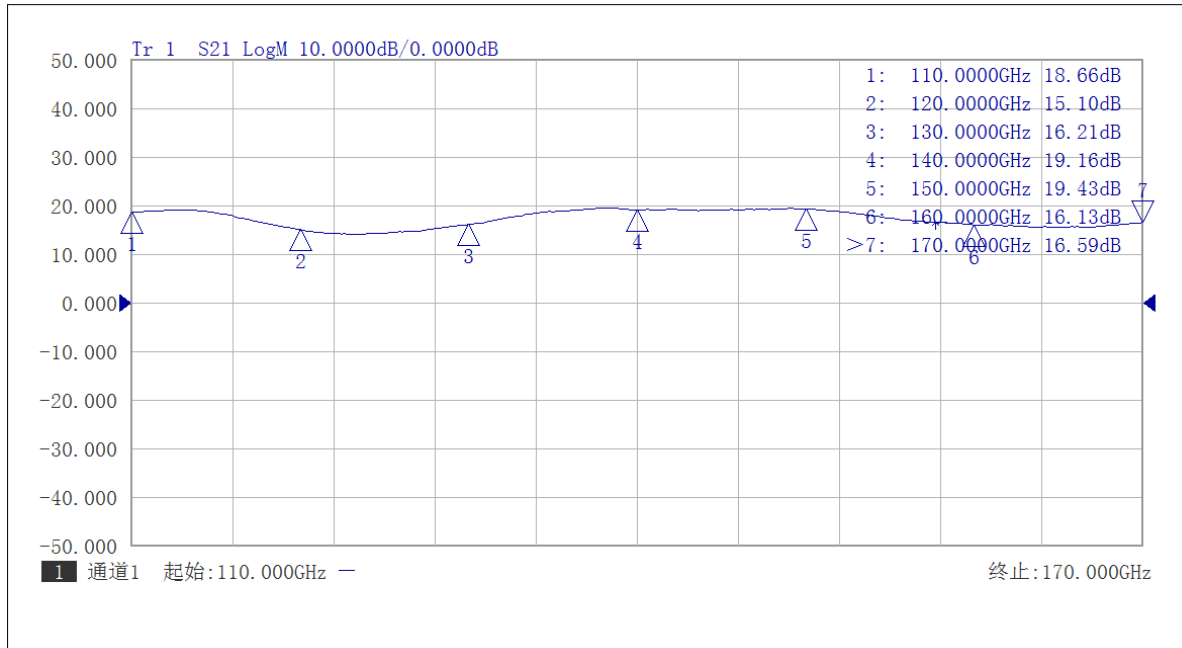
## Part Number Selection Guide

Item	Description
PN	Standard 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

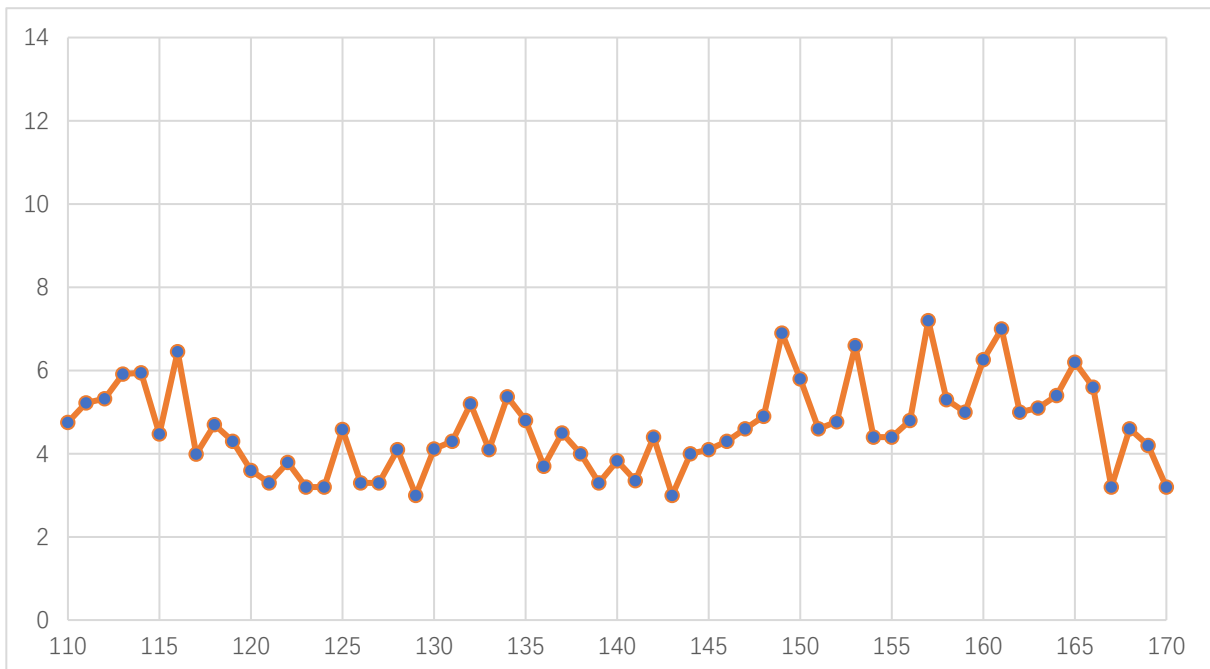


### Test Data (25C)

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



Gain vs Frequency



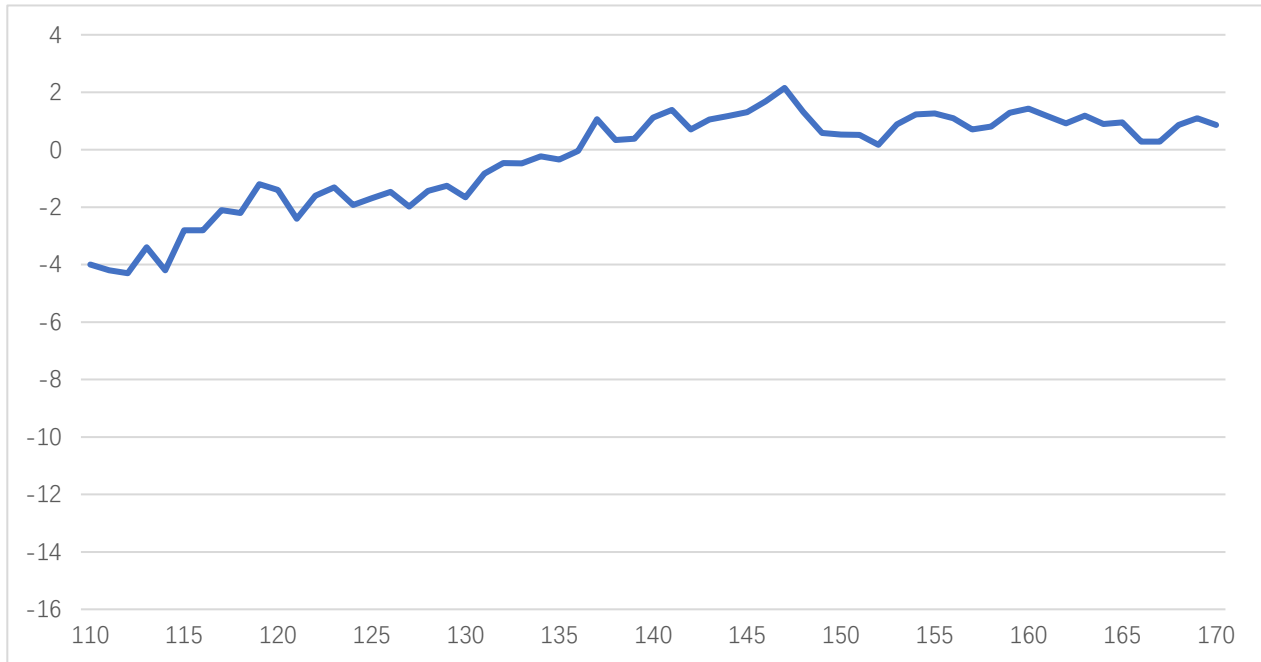
NF vs Frequency





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Psat vs Frequency



Dimension: (mm)

