



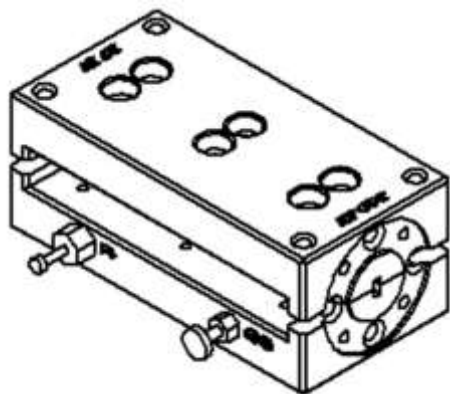
# AT-LNA-75110-3804T

75-110GHz 38dB Gain Low Noise Amplifier

## W Band Low Noise Amplifier, WR-10

2022-10-1

## High Gain=38dB, Low NF=4dB



### Product Overview

AT-LNA-75110-3804T is a low noise amplifier operating in the 75-110 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-10.

GaAs MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result.

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

### Advantages

- ✓ Frequency: 75-110GHz
- ✓ Gain: 38dB
- ✓ NF: 4dB
- ✓ Single Supply

### Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Gain (75-105GHz)	36dB	38dB	
Input Power		-40dBm	-10dBm
Noise Figure		4dB	6dB
P1dB		+1dBm	
Psat		+3dBm	
Drain Supply		+5V	+8V
Current		70mA	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	

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## Mechanical Information

Item	Description
Input Port	WR-10 UG-387/U-M Flange with anti-cocking Flange
Output Port	WR-10 UG-387/U-M Flange with anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	130g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+0dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## 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>	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, +220V Supply with AC/DC Adapter



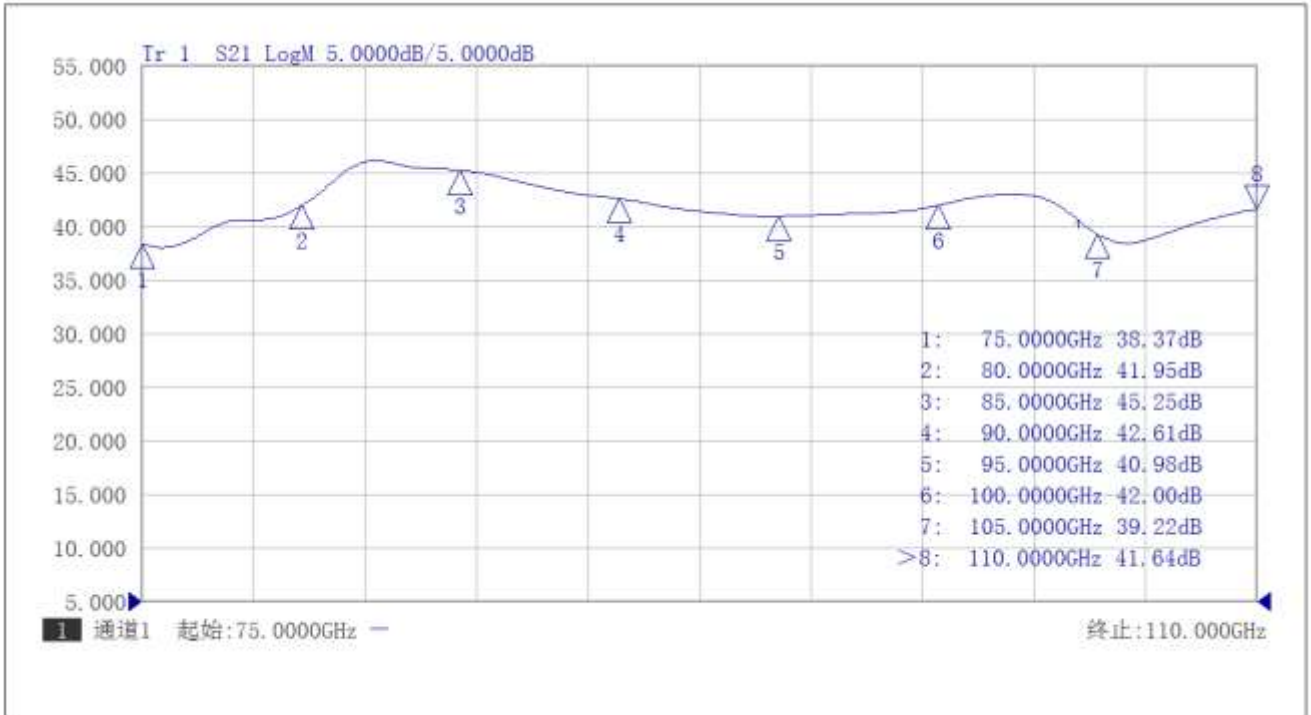


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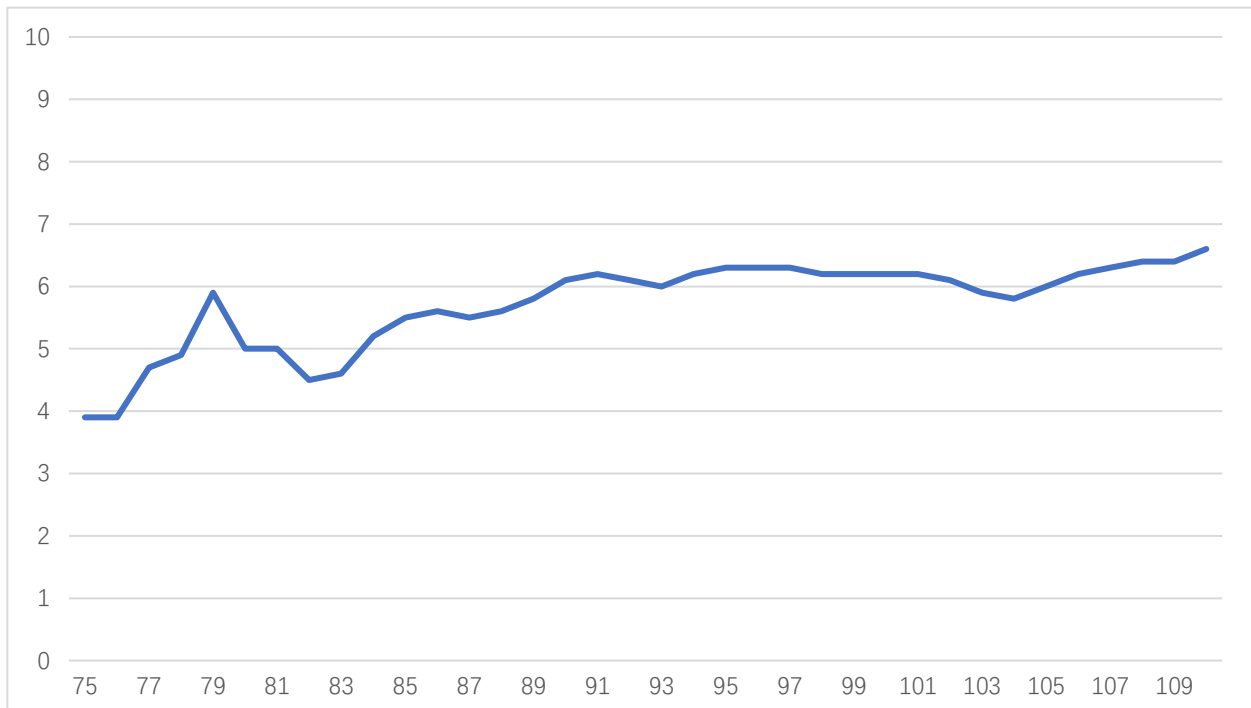
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## Test Data (25C)

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



Gain vs Frequency



Psat vs Frequency

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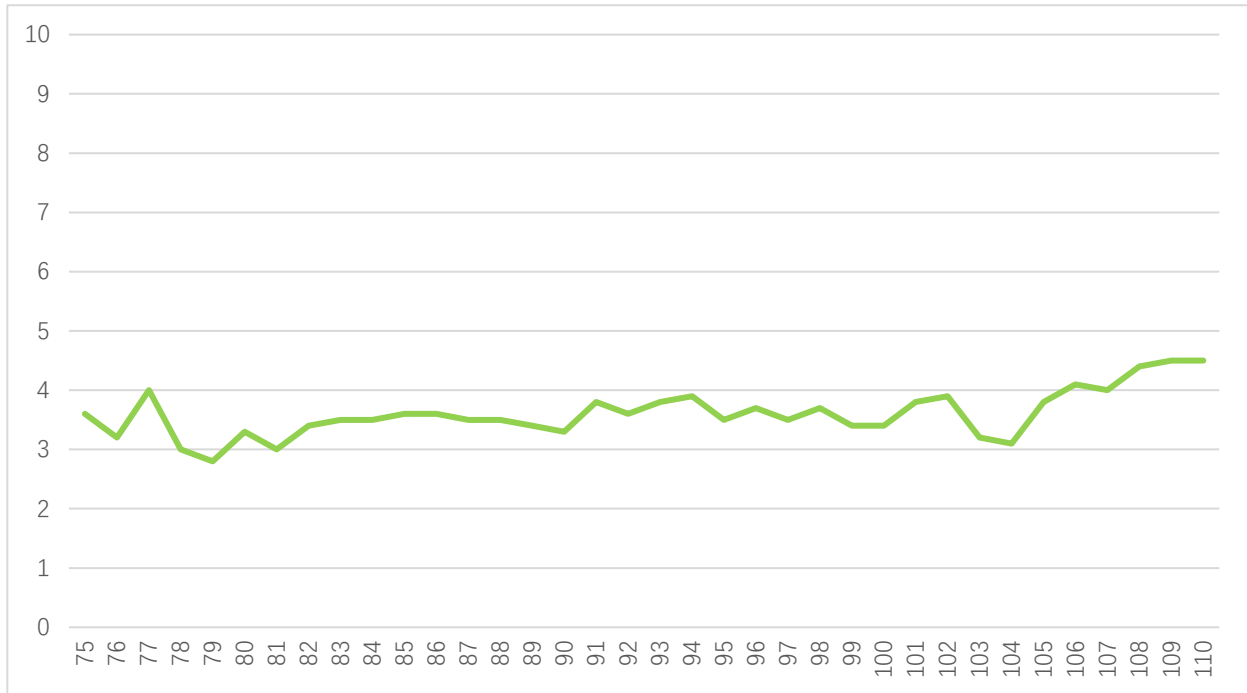
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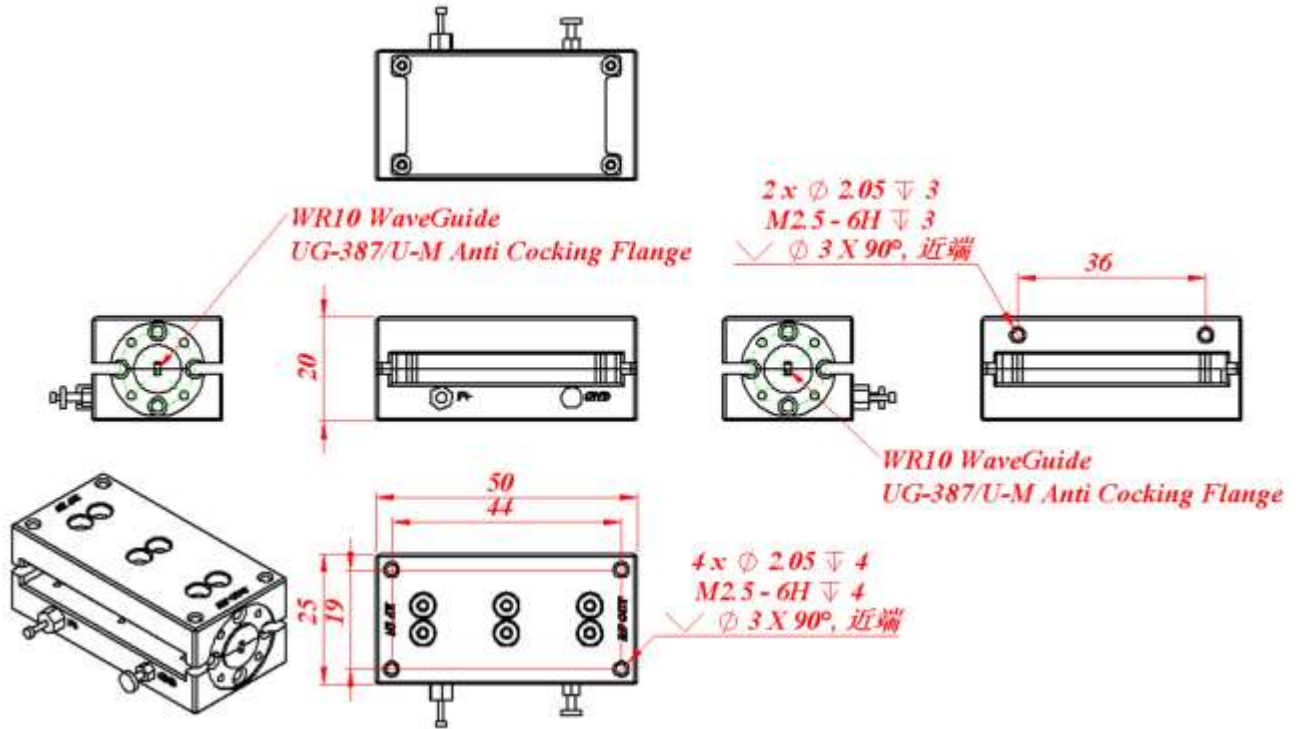
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NF vs Frequency



### Dimension: (mm)



### PCN

Date	Description
2022-10-1	Outline updated with anti-cocking flange. All RF Performance un-changed.

