

### W Band Low Noise Amplifier, High Power



#### Product Overview

AT-LNA-75110-3504HP is a high power and low noise amplifier operating in the 75-110 GHz frequency range, with NF=4dB, Pout=+13dBm. 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: 35dB
- ✓ NF: 4dB
- ✓ P1:+13dBm
- ✓ 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		75-100GHz: 35dB 100-110GHz: 30dB	
Input Power		-40dBm	-10
Noise Figure		4dB	6
P1dB	+10dBm	+13dBm	
Psat	+12dBm	+15dBm	
Drain Supply		+5V	+8V
Current		170mA	
Input Return Loss		-5dB	
Output Return Loss		-10dB	
Spec Temp		25C	





# AT-LNA-75110-3504HP

75-110GHz 35dB Gain Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	130g
Size:	50x30x30 mm

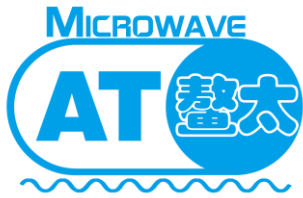
## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	-5dBm
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.

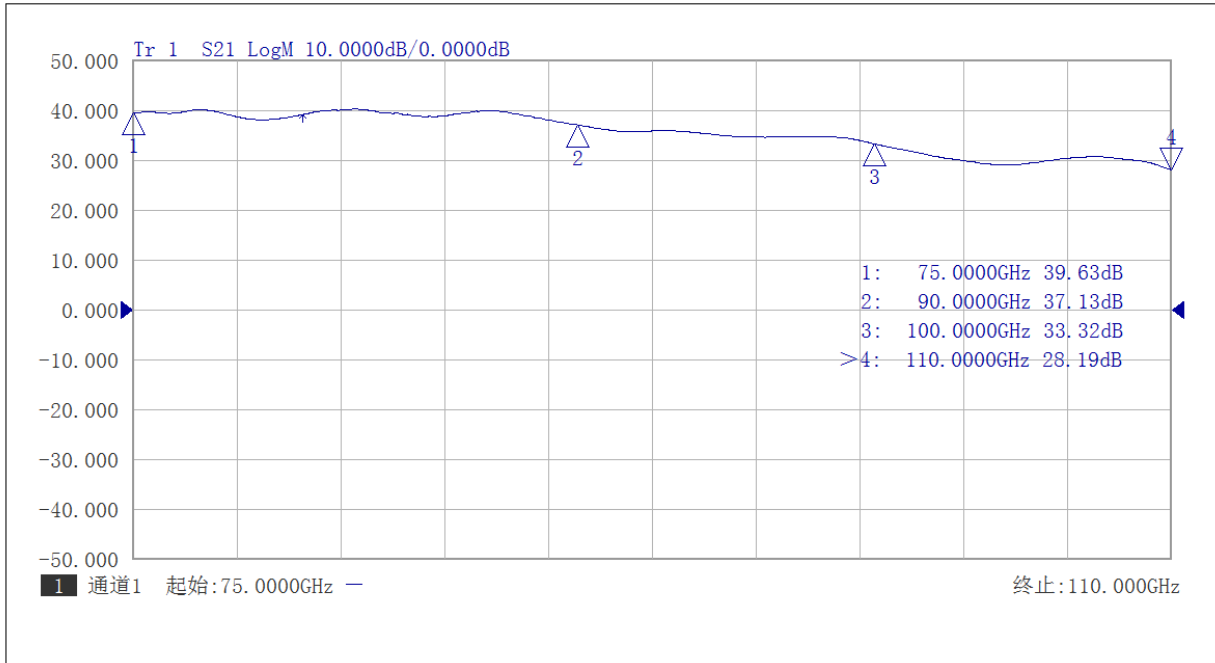




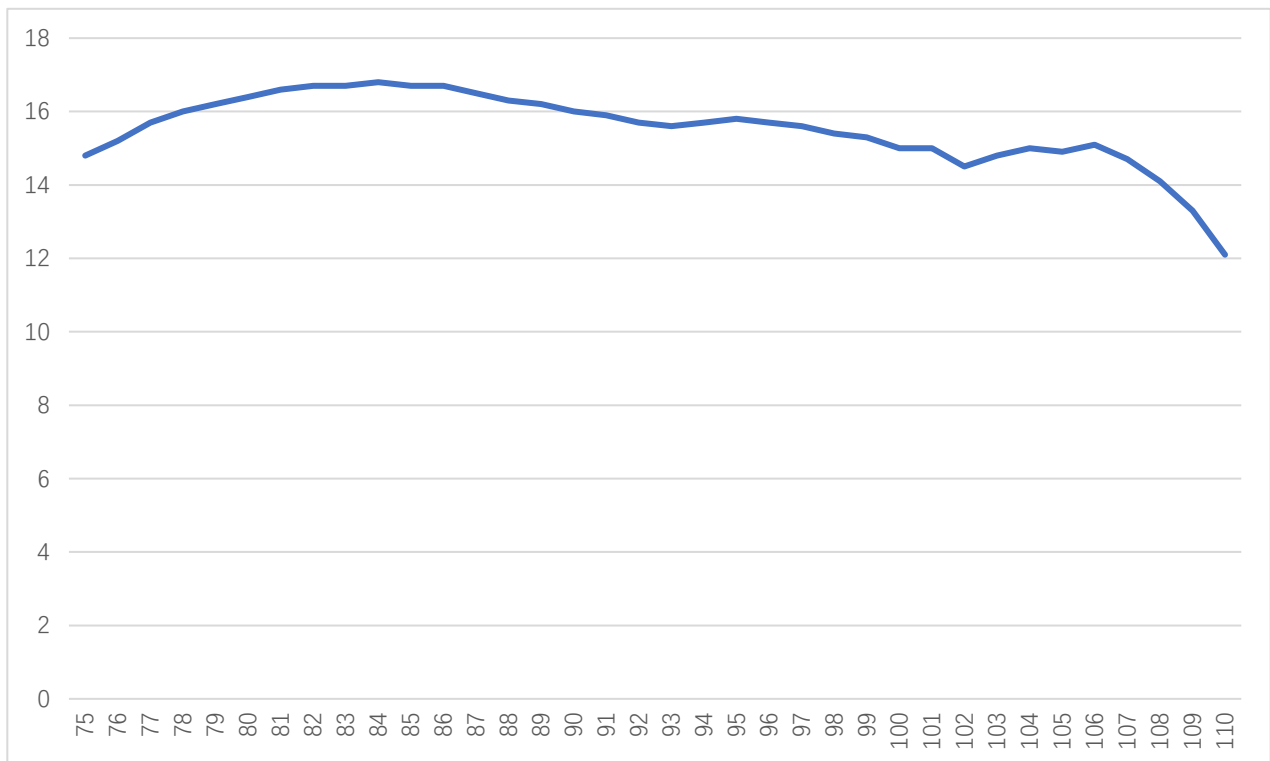
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## Test Data:



Gain vs Frequency



Psat vs Frequency

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### Dimension: (mm)

