

### E Band Low Noise Amplifier, NF=4dB



#### Product Overview

AT-LNA-7090-2304T is a low noise amplifier operating in the 70-90GHz frequency range with super low NF=4dB. The LNA is packaged in a waveguide module using industry standard WR-12.

GaAs pHEMT 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: 70-90GHz
- ✓ Gain: 23dB
- ✓ NF: 4dB
- ✓ Single Power Supply

#### Application

- ✓ E band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Key Features

Parameter	Min	Typical	Max
Frequency		70-90GHz	
Gain	18	23dB	
Noise Figure		4dB	6dB
Drain Supply		+5V/80mA	+8V
P1dB		+8dBm	
Psat		+10dBm	
Input Return Loss		-5dB	
Output Return Loss		-10dB	
Spec Temp		25C	

#### Mechanical Information





# AT-LNA-7090-2304T

70-90GHz 23dB Gain Low Noise Amplifier

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	45X25X20 mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+10dBm
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.

## Test Data:

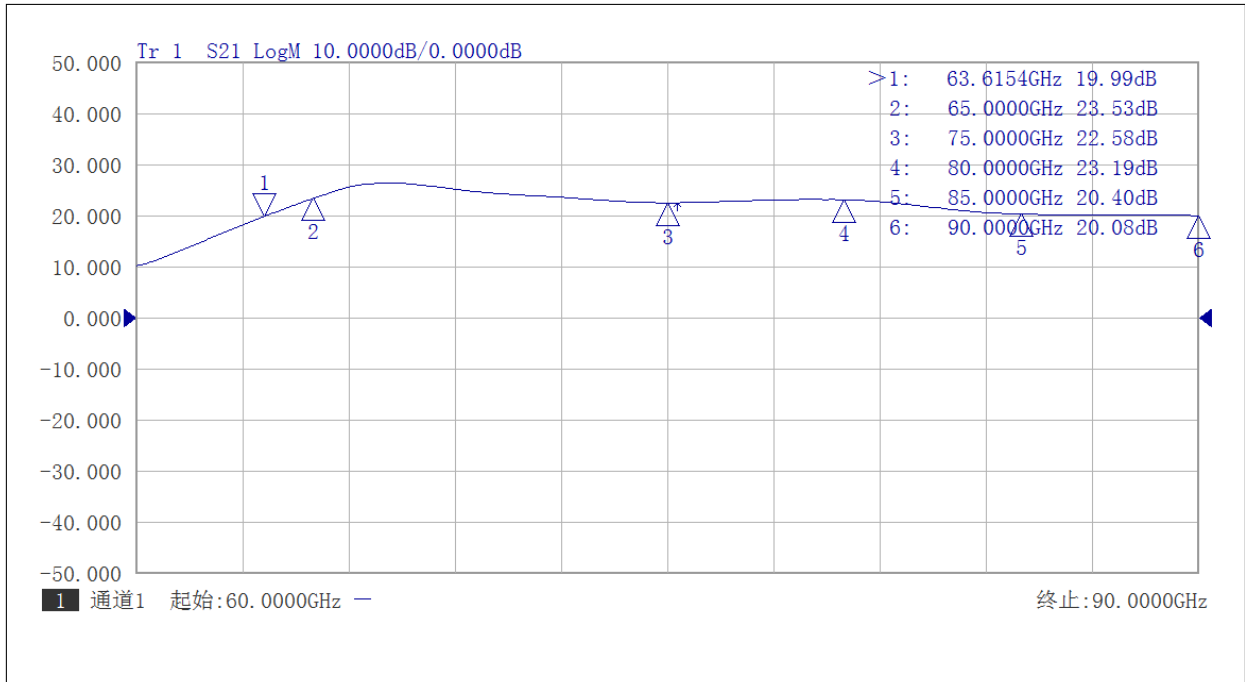
Tel:021-6229 1233

Shanghai AT Microwave Limited

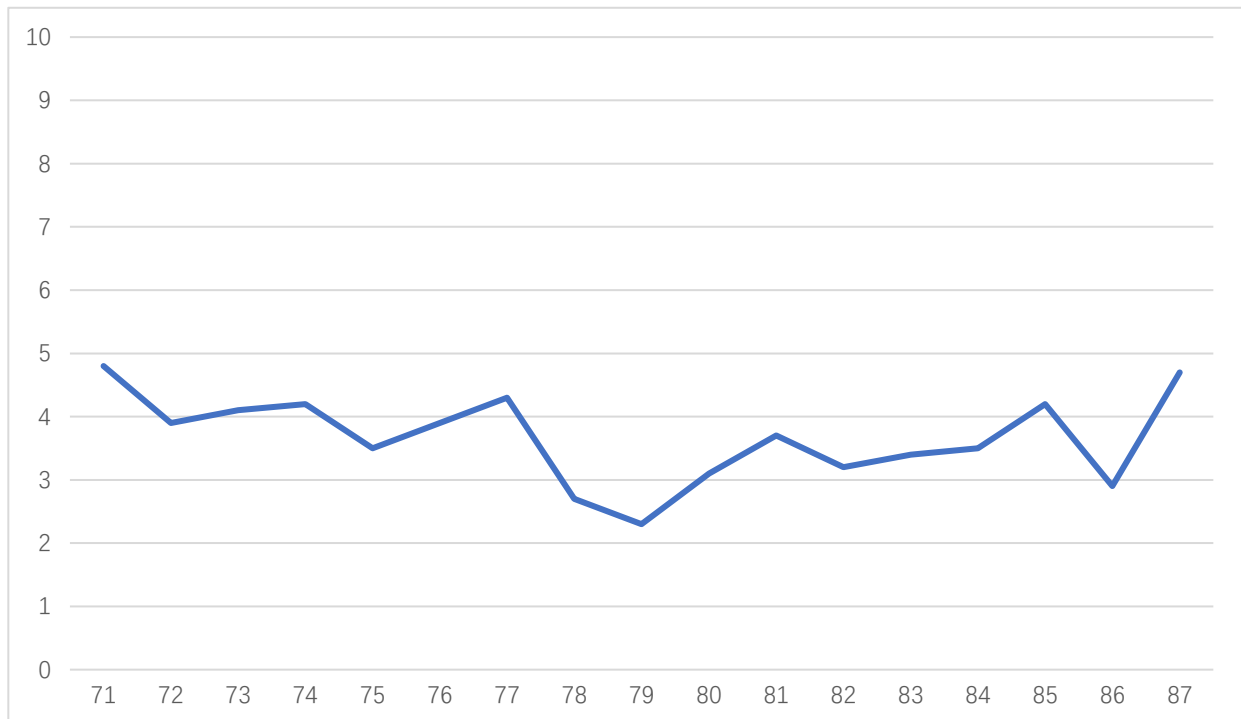
Email:sales@atmicrowave.com

www.atmicrowave.com



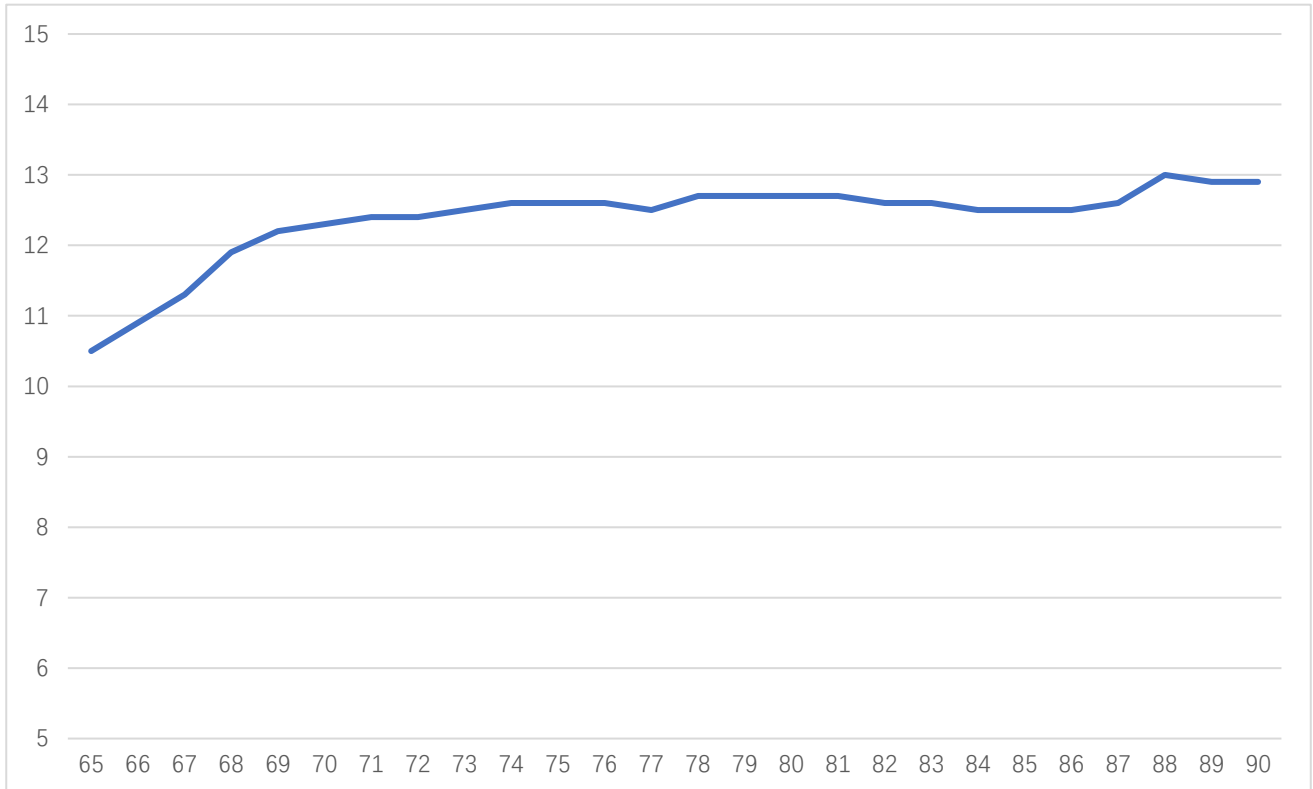


S21 Gain vs Frequency



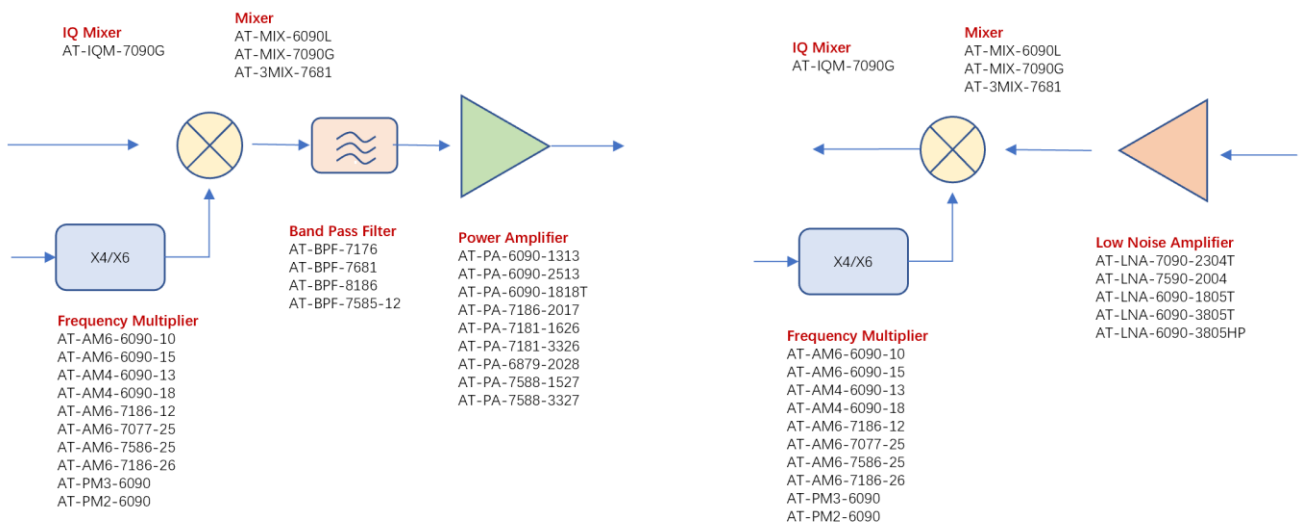
NF vs Frequency





Psat vs Frequency

### E Band 60-90GHz



### Dimension:

