

E/W Band LNA, 20dB Gain, NF=4dB



Product Overview

AT-LNA-7590-2004 is a low noise amplifier operating in the 75-90 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR-12.

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.

Advantages

- ✓ Frequency: 75-90GHz
- ✓ High Gain: 20dB
- ✓ NF: 4dB
- ✓ Single Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		75-90GHz	
Gain	17	20dB	
Noise Figure		4dB	
Pin		-25dBm	-10dBm
Output P1dB		-1 dBm	
Drain Supply		+5V/80mA	+8V
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





AT-LNA-7590-2004

75-90GHz 20dB Gain, NF 4dB Low Noise Amplifier

Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	189g
Size:	57.5x33x22.4mm

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.

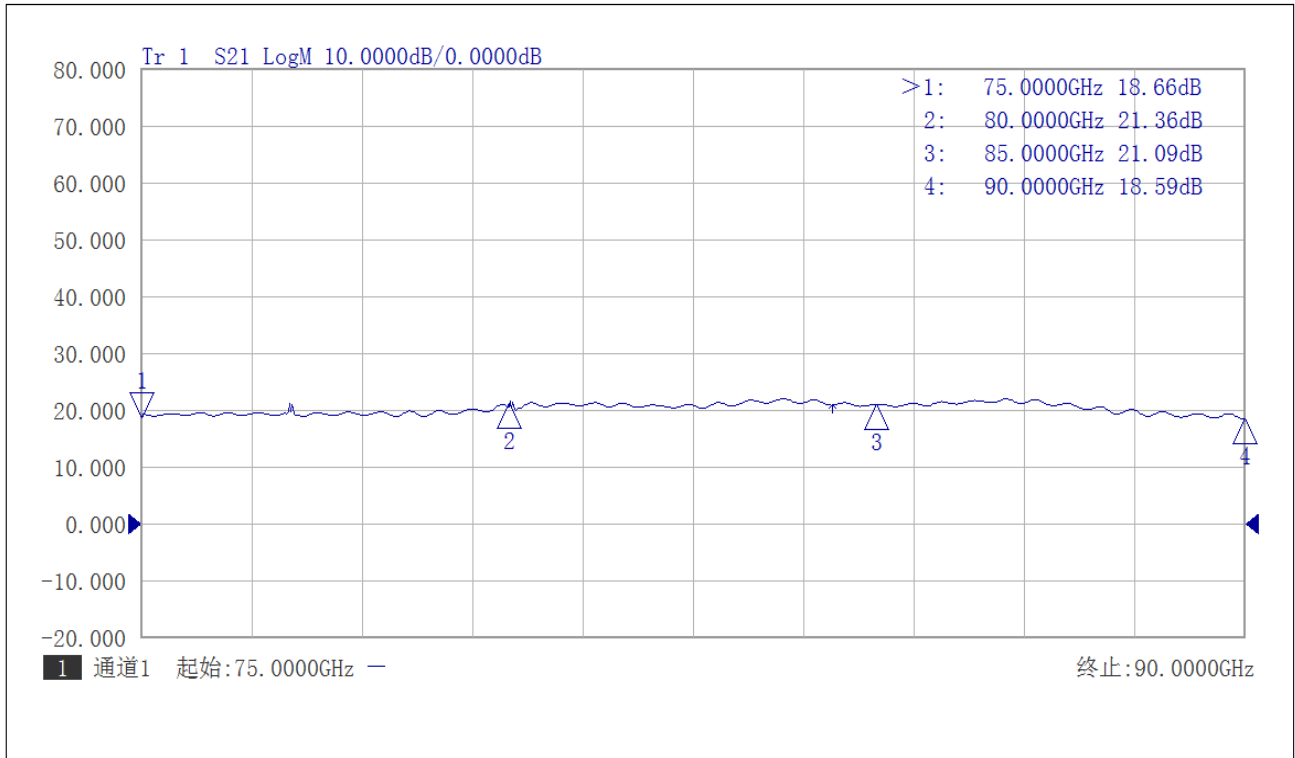




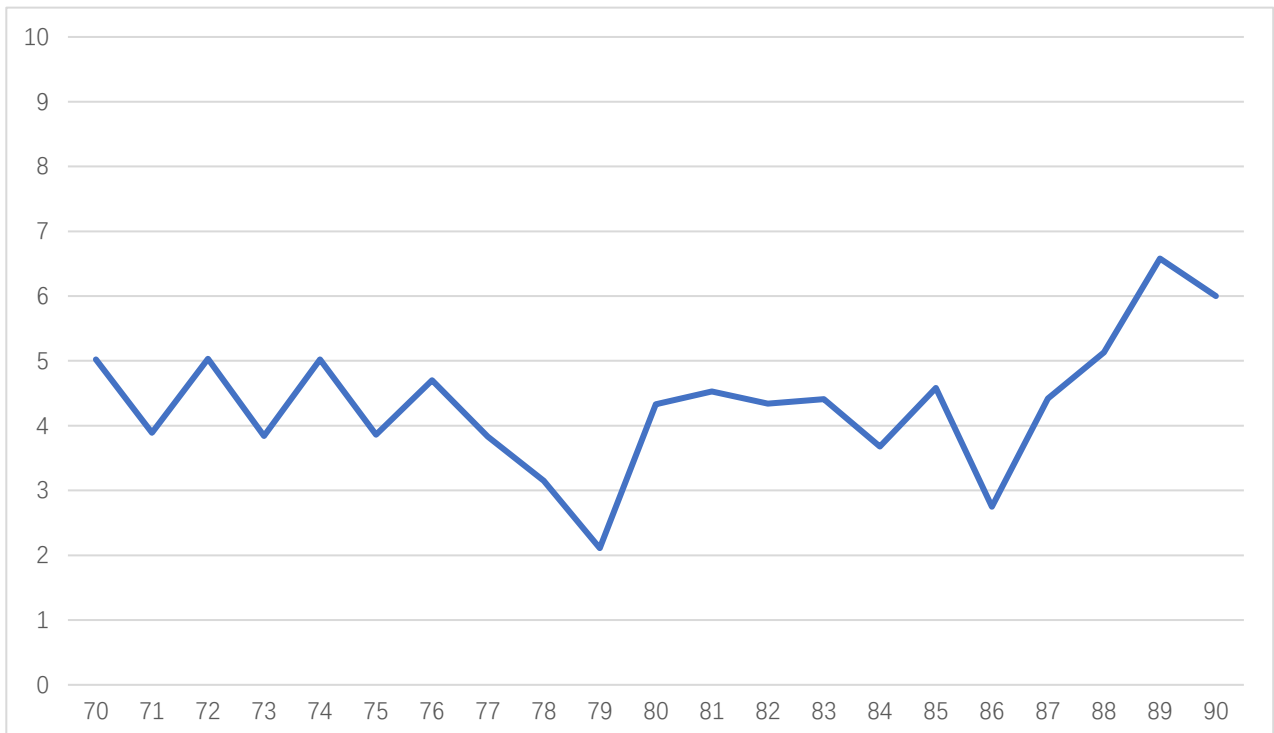
AT-LNA-7590-2004

75-90GHz 20dB Gain, NF 4dB Low Noise Amplifier

TEST DATA (25C)



GAIN VS FREQUENCY



NF VS Frequency

Shanghai AT Microwave Limited

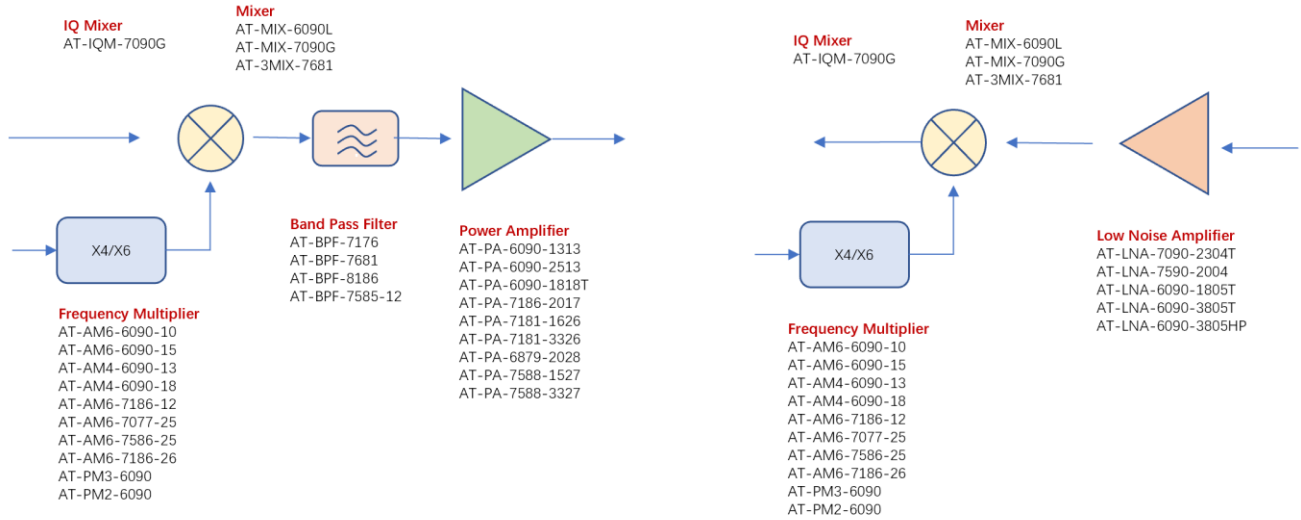
Tel:021-6229 1233

Email:sales@atmicrowave.com

www.atmicrowave.com



E Band 60-90GHz



Dimension: (mm)

