



AT-LNA-6090-1805T

60-90GHz 18dB Gain Low Noise Amplifier

Full E Band Low Noise Amplifier, WR-12 60-90GHz, Gain=18dB, NF=5dB



Product Overview

AT-LNA-6090-1805T is an full E Band low noise amplifier operating in the 60-90GHz frequency range with super low NF=5dB. The LNA is packaged in a waveguide module using industry standard WR-12.

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

More information, please visit www.atmicrowave.com.

Advantages

- ✓ Frequency: 60-90GHz
- ✓ Gain: 18dB
- ✓ NF: 5dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Gain	16	18dB	
Noise Figure		5dB	7dB
Drain Supply		+5V/80mA	+8V
P1dB		+8dBm	
Psat		+10dBm	
Input Return Loss	-5	-10dB	
Output Return Loss	-5	-10dB	
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	100g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
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.

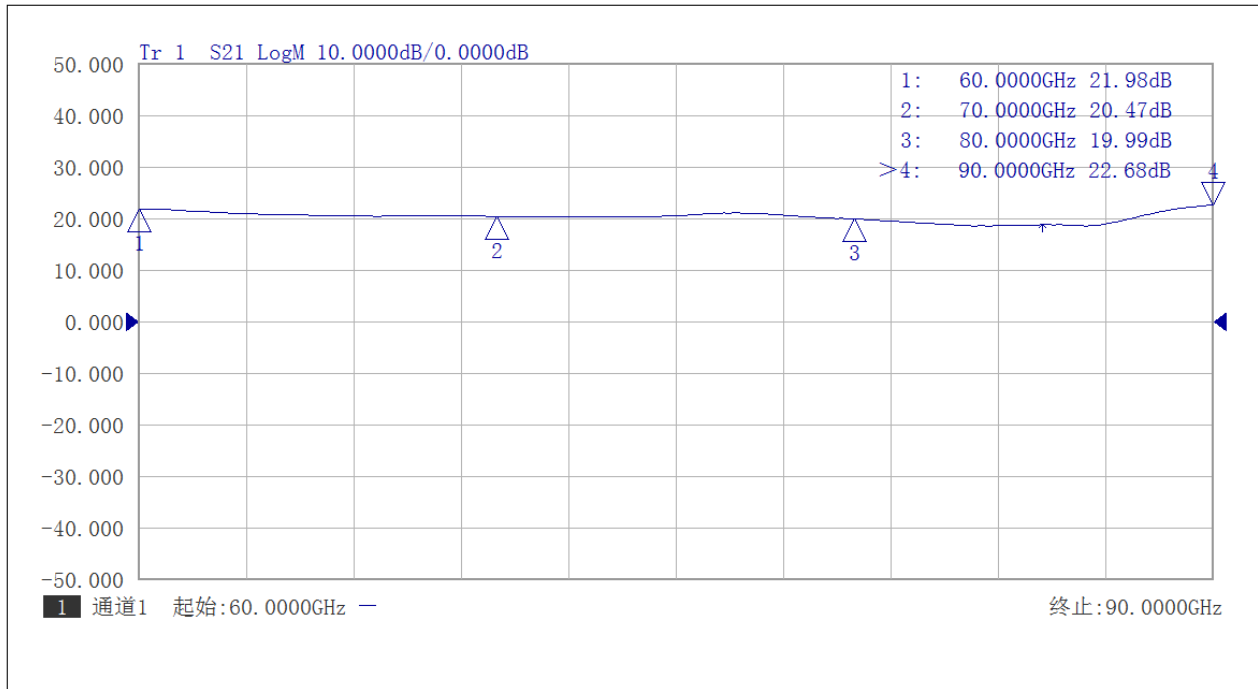
Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter

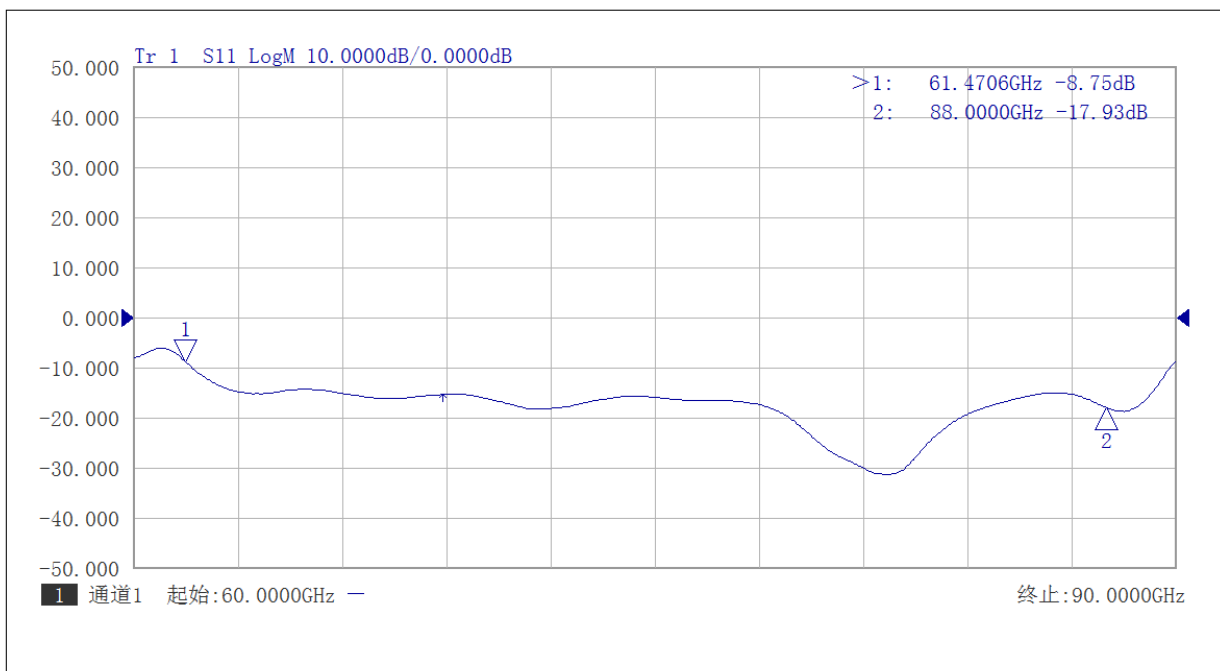


Test Data (25C)

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

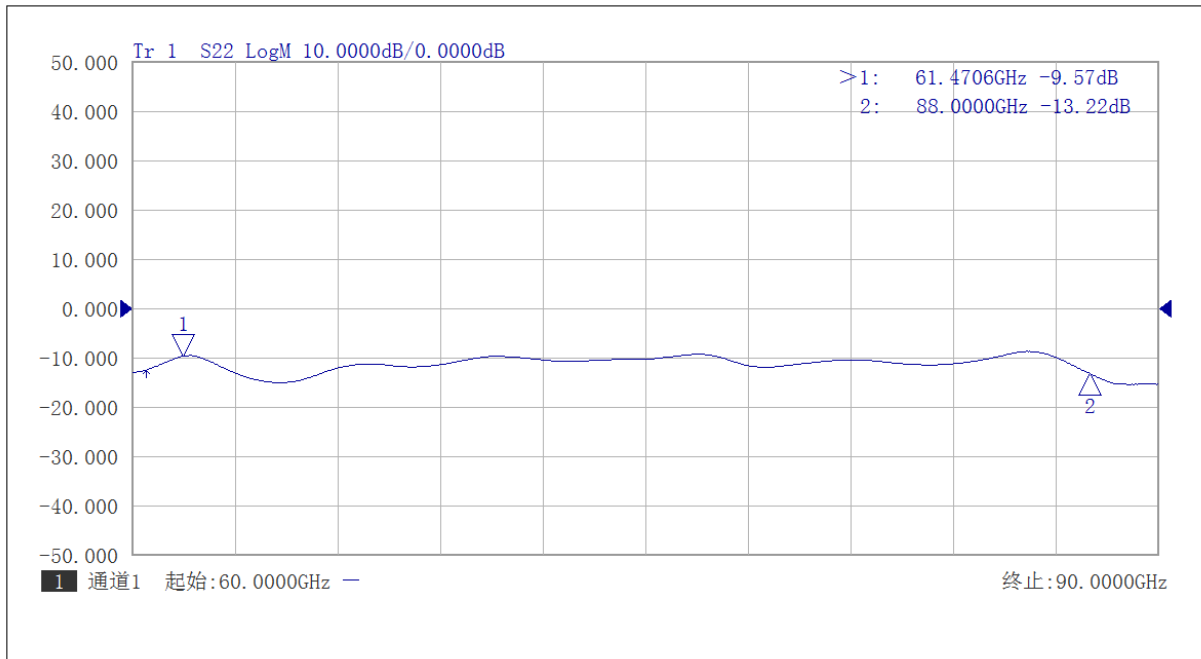


Gain vs Frequency

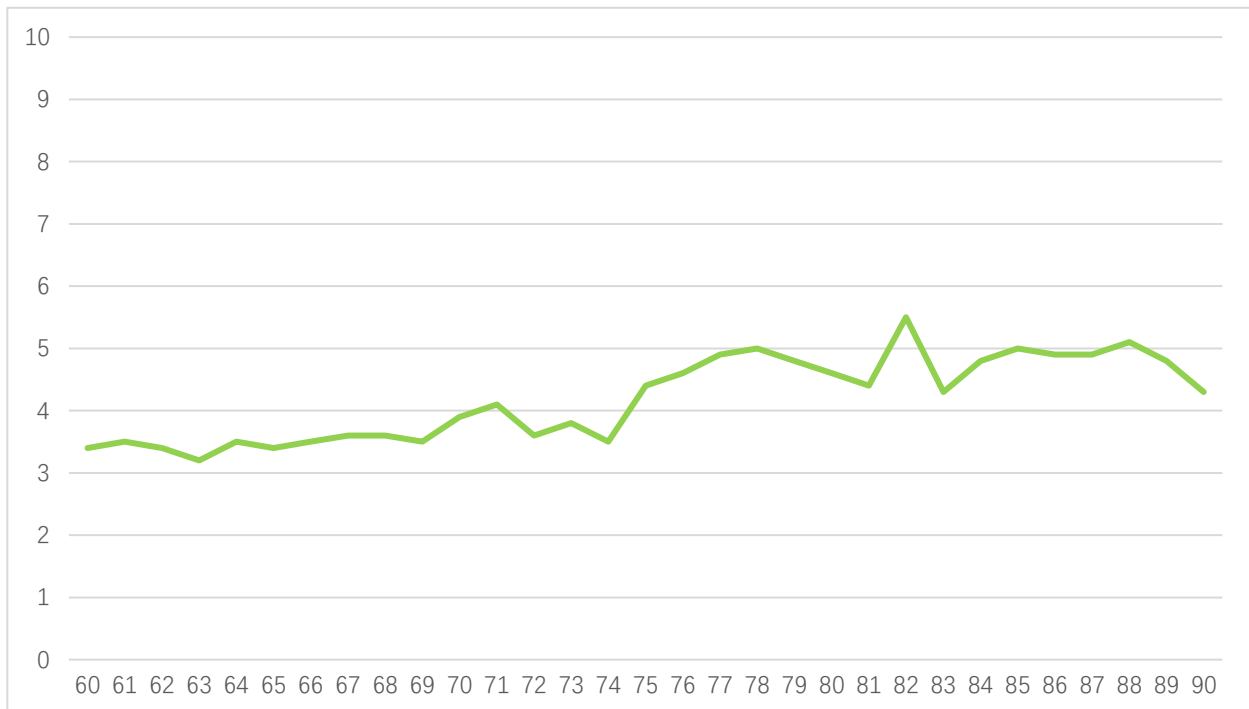


Input Return Loss vs Frequency





Output Return Loss vs Frequency



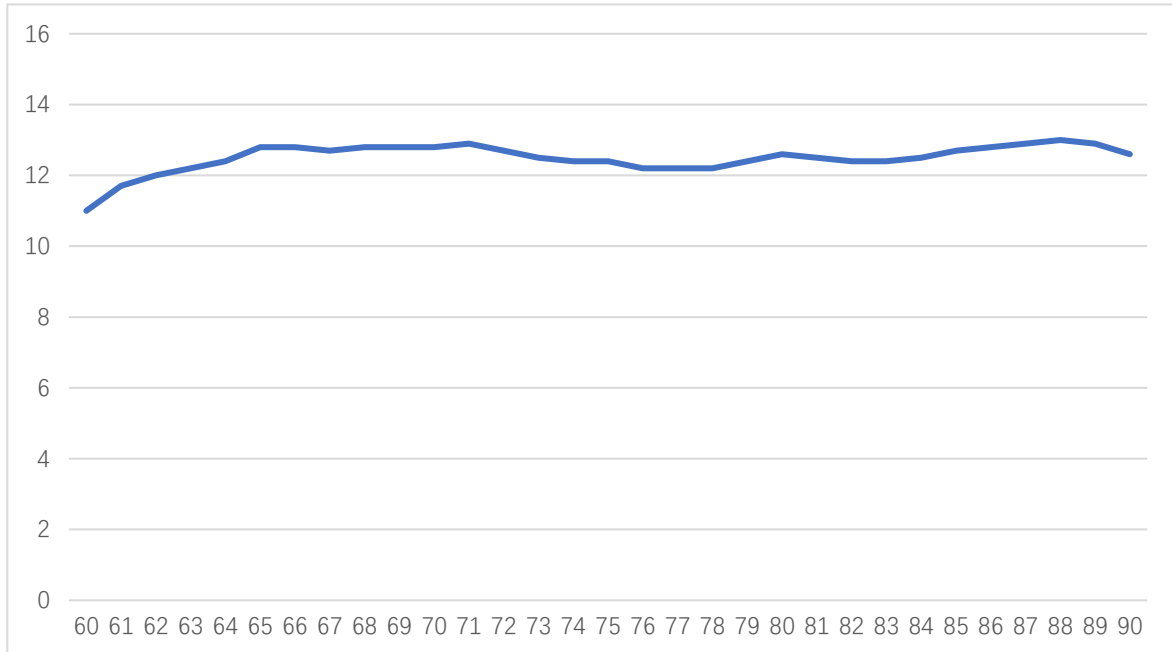
NF vs Frequency



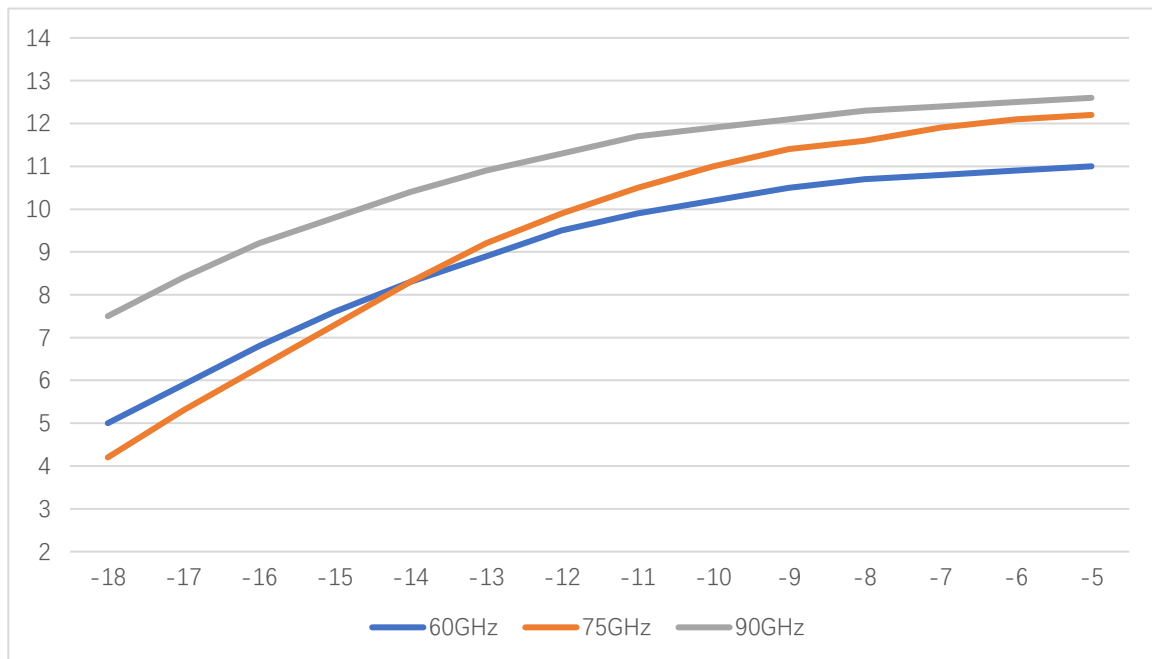


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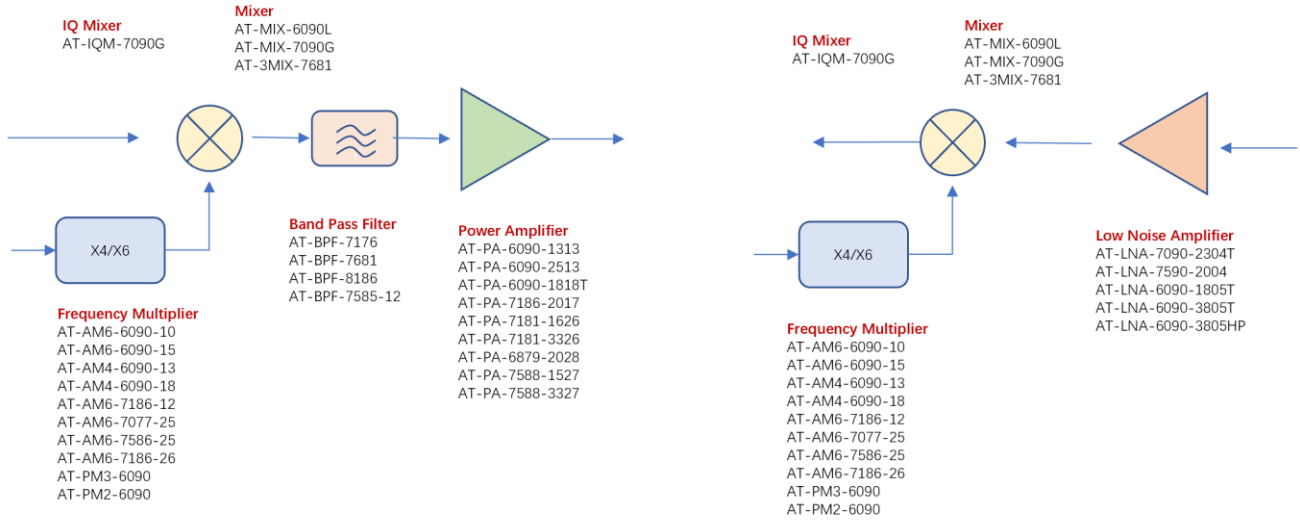
Psat vs Frequency



Pout vs Pin at 50/75/90GHz



E Band 60-90GHz



Dimension:

