



# AT-LNA-4577-1825T

Full V Band Low Noise Amplifier

## 45-77GHz Broadband Low Noise Amplifier Super Low Noise Figure, NF=2.5dB



### Product Overview

AT-LNA-4577-1804T is low noise amplifier with 18dB gain in the frequency of 45-77GHz. The DC power requirement is +5V/30mA. The module is with a standard WR-15 waveguide.

High gain modules with 38dB gain modules is available, PN: AT-LNA-4577-3825T.

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

### Advantages

- ✓ Frequency: 45-77GHz
- ✓ NF: 2.5dB
- ✓ Small signal gain: 18dB
- ✓ Single Power Supply

### Application

- ✓ V Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		45-77GHz	
Gain	15	18dB	
Drain Supply		+5V	+8V
NF		2.5 dB	3.5dB
P1dB		-3dBm	
Psat		+0dBm	
Current		30 mA	
Input Return Loss		-8dB	
Output Return Loss		-12dB	
Spec Temp		25C	





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## Full V Band Low Noise Amplifier

### Mechanical Information

Item	Description
Input Port	WR-15
Output Port	WR-15
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	See outline

### Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+5dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +125C

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

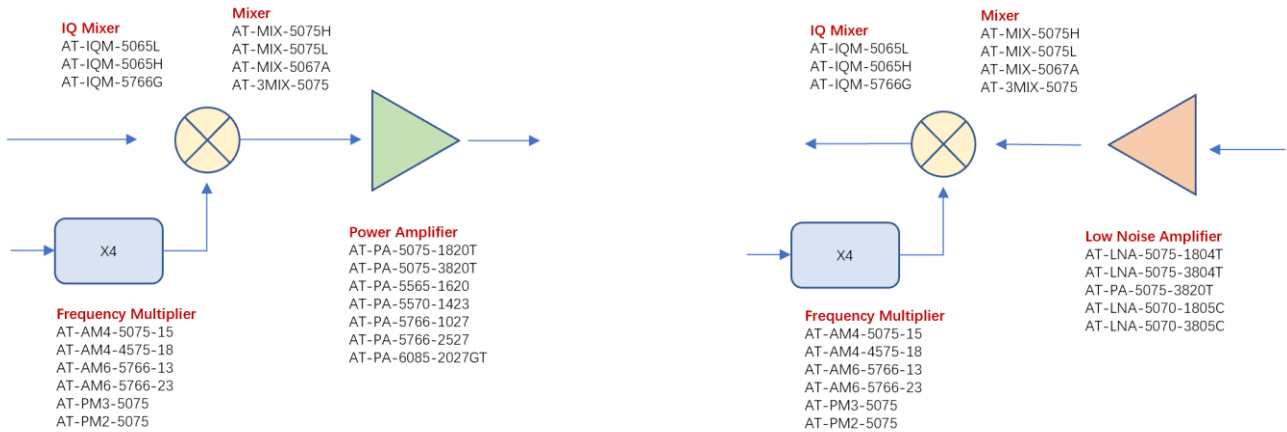


## Test Data (25C)

To be added.

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

### V Band 50-75GHz



## Dimension: (unit in mm)

