



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-PA-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

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	

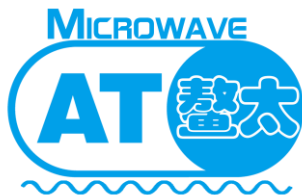
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www.atmicrowave.com





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Mechanical Information

Item	Description
Input Port	WR-15
Output Port	WR-15
Case Material	Copper
Finish	Gold Plated
Weight	100g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+5dBm
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

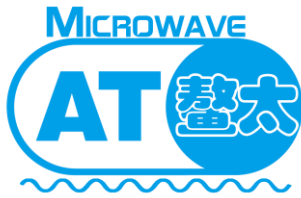
Notes:

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





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Test Data (25C)

To be added.

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

Dimension: (unit in mm)

