

## 47-53GHz Low Noise Amplifier



### Product Overview

AT-LNA-4753-3835T is high gain low noise amplifier with 38dB gain in the frequency of 47-53GHz. The DC power requirement is +5V/100mA. The module is with 2.4mm Female connector.

AT Microwave can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB, Pout from +5 to +27dBm, and connectors from SMA to 1.85mm. If you don't find what you need, just send us email [sales@atmicrowave.com](mailto:sales@atmicrowave.com)

### Advantages

- ✓ Frequency: 47-53GHz
- ✓ Small signal gain: 38dB
- ✓ NF=3.5dB
- ✓ Single Power Supply

### Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		47-53GHz	
Gain	35	38 dB	
Gain Flatness		+/-1.5dB	+/-2.5dB
NF		3.5dB	4.5dB
P1Db		+3dBm	
Psat		+5dBm	
Drain Supply		+5V	+8V
Current		80 mA	100mA
Input Return Loss	-5	-10dB	
Output Return Loss	-5	-10dB	
Spec Temp		25C	





# AT-LNA-4753-3835T

47-53GHz Low Noise Amplifier

## Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight	80g
Size:	30x30x14 mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+13V
RF Input Power	+0 dBm
Operating Temperature(note)	-20 to + 70C
Storage Temperature	-65 to +150C

Note: -40 to +85C is available according to request.

## Notes:

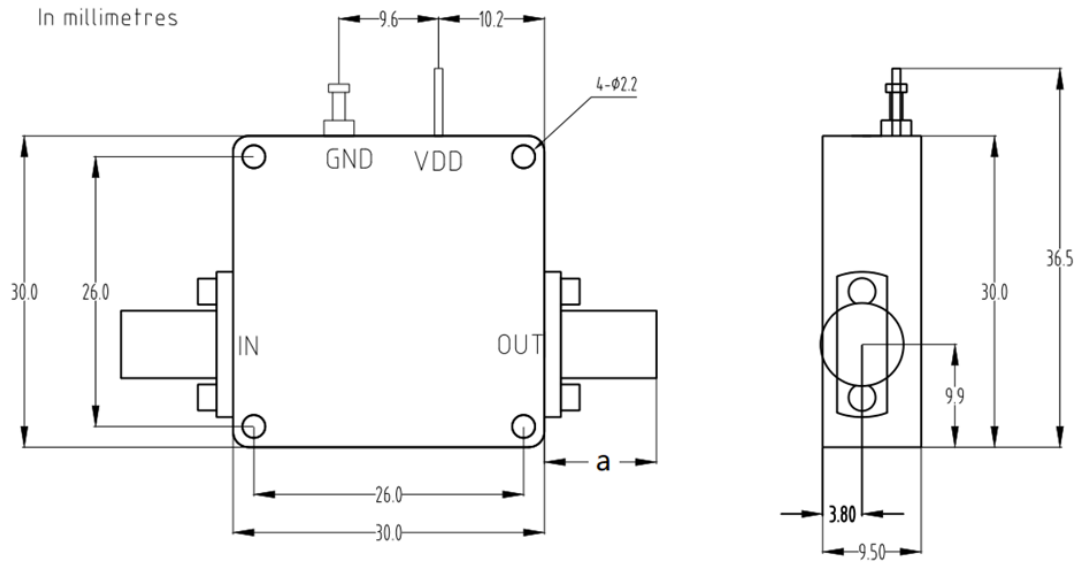
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

## 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



**Dimension:** (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

