



# AT-LNA-0018-4525P23

## 100MHz-18GHz Low Noise Amplifier

### 100MHz-18GHz Broadband LNA

### High Gain, High Power, Low NF

2022-4-29



#### Product Overview

AT-LNA-0018-4525P23 is broadband LNA from 100MHz-18GHz, with  $P_{out}=+23dBm$ . NF is 2.5dB from 0.1-18GHz. The DC power requirement is +12V/210mA. The module is with SMA Female

AT Microwave can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB,  $P_{out}$  from +5 to +27dBm, and connectors from SMA to 1.85mm.

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

#### Advantages

- ✓ Frequency: 100MHz-18GHz
- ✓ NF=2.5dB
- ✓ High gain: 45dB
- ✓ Single Power Supply

#### Application

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

#### Key Features

Parameter	Min	Typical	Max
Frequency		100MHz-18GHz	
Gain	42dB	45dB	
Gain flatness		+/-1.5dB	+/-2.5dB
P1dB	+20dBm	+21dBm	
Psat	+22dBm	+23dBm	
NF		2.5dB	3.5dB
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Drain Supply	+8V	+12V	+13V
Current		210 mA	280mA
Spec Temp		25C	





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## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight	80g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+15 dBm
Operating Temperature(note)	-20 to +70C
Storage Temperature	-65 to +150C

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

## Notes:

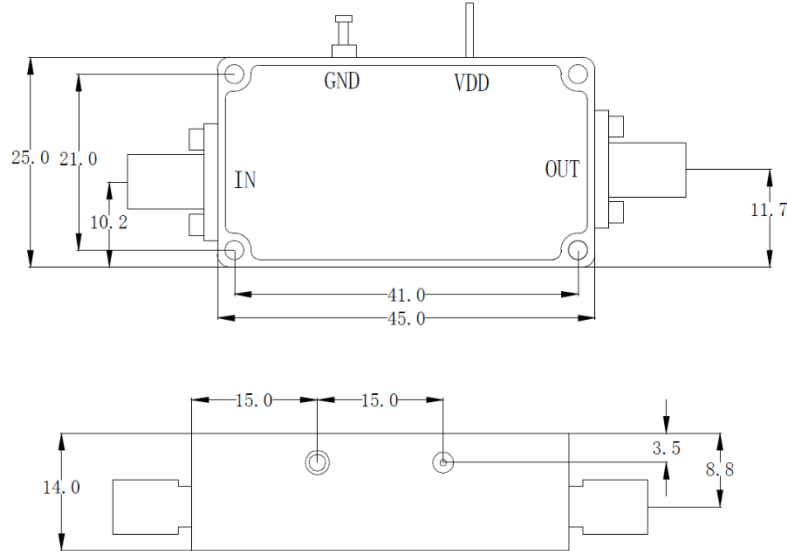
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

## 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



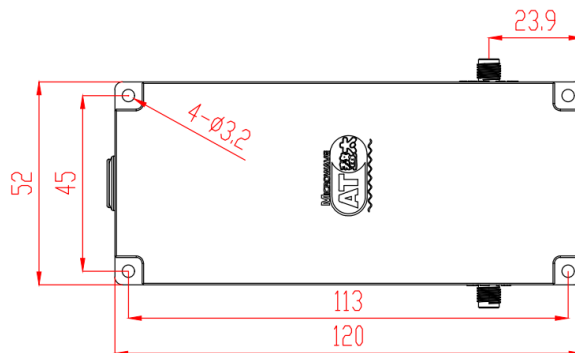
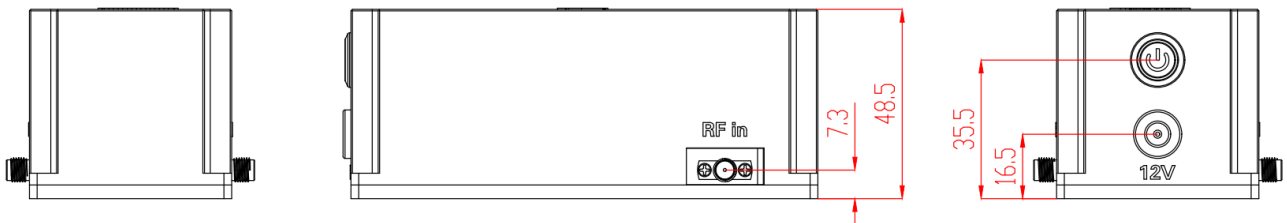
**Dimension:** (unit in mm)



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

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

Standard module outline, Heat sink required if case temp exceeds 50C



PN-LCBT Outline

