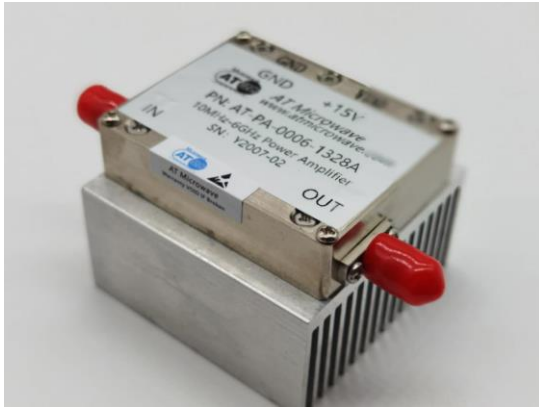


# 100MHz-20GHz Broadband Amplifier



### Product Overview

AT-PA-0020-2427A is broadband amplifier from 100MHz-20GHz, with  $P_{out}=+27\text{dBm}$ ,  $NF=6\text{dB}$ . It can be used both as Power amplifier and low noise amplifier. The DC power requirement is +12V/400mA. The module is with SMA Female

The broadband amplifier has high gain, high linearity, low input/output return loss and flat gain response.

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

### Advantages

- ✓ Frequency: 100MHz-20GHz
- ✓  $P_{sat}$ : +27dBm
- ✓ Small signal gain: 24dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		100MHz-20GHz	
Gain	22	24dB	
P1dB		+26dBm	
$P_{sat}$		+27dBm	
Drain Supply		+12V	+15
Current		450 mA	550
NF		6dB	
Input VSWR		1.5	2.5
Output VSWR		1.5	2.5
Spec Temp		25C	





# AT-BB-0022-1332A

100MHz-22GHz Broadband Amplifier

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Nickel Plated
Weight (Without Heatsink)	150g
Size:	50x40x12 mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
RF Input Power	+10 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

### Caution:

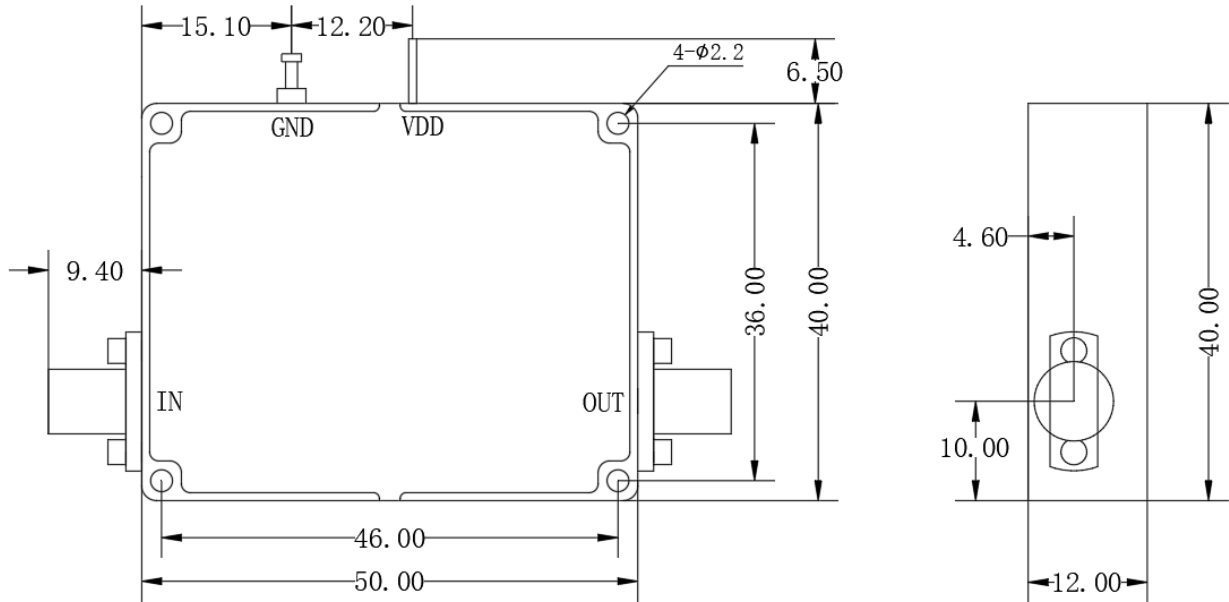
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

## 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.



**Dimension:** (unit in mm)



In millimetres

The 9.4 size marked is used SMA female connector  
if use 2.92mm female connector the size is 9.5

**Heat Sink Required During Operation**

