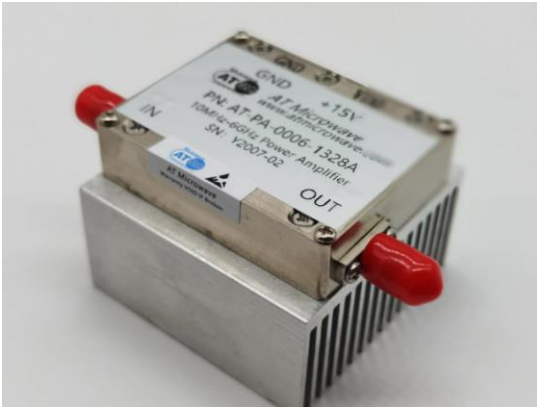


## 1-20GHz Broadband Amplifier, +29dBm



### Product Overview

AT-PA-0120-1029X is high gain power amplifier with +28dBm output power in the frequency of 1-20GHz. The DC power requirement is +12V/350mA. The module is with SMA connector.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response. Bench-top test equipment type with 110-240V power supply is available according to request.

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

### Advantages

- ✓ Frequency: 1-20GHz
- ✓ Psat:+28dBm
- ✓ Small signal gain: 10dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		1-20GHz	
Gain		10dB	
P1dB	+26	+28dBm	
Psat	+27	+29dBm	
Drain Supply		+12V	+15V
Current		350 mA	
Input VSWR		1.5	2.5
Output VSWR		1.5	2.5
Spec Temp		25C	





# AT-PA-0120-1029X

## 1-20GHz Power 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	+25 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

#### Caution:

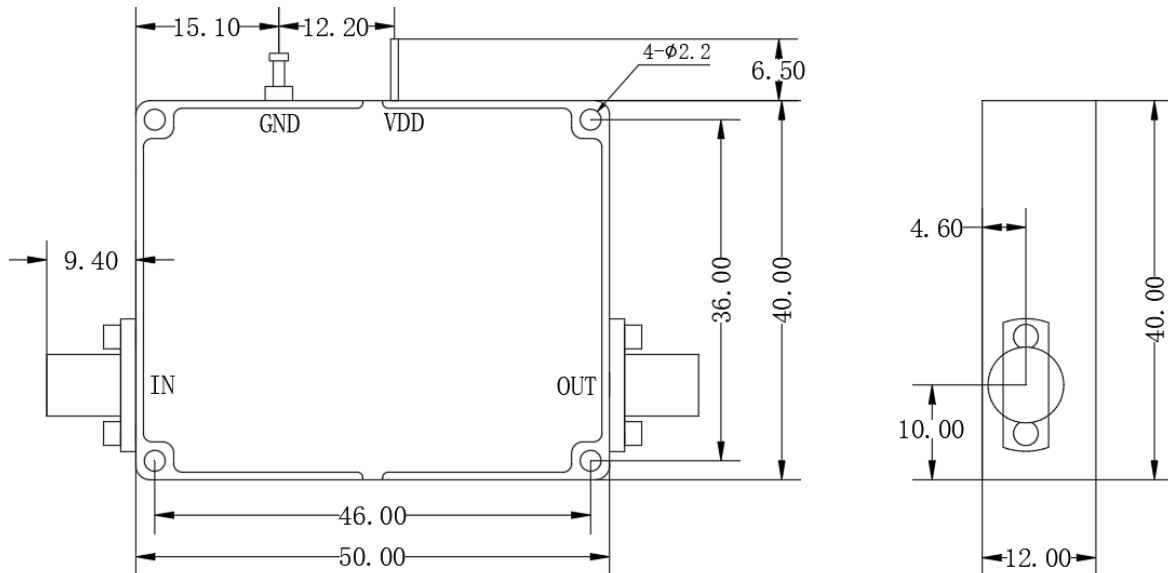
Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

#### 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**

