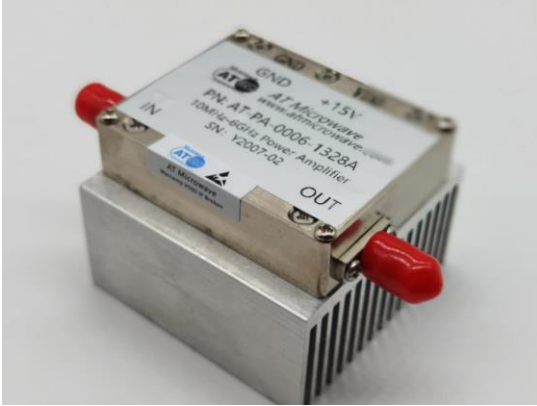


## 100MHz-6GHz Broadband Amplifier



### Product Overview

AT-PA-0006-1328A is broadband amplifier from 100MHz-6GHz, with  $P_{out}=+28dBm$ . There are dc block capacitor inside both input and output ports. The DC power requirement is +12V/450mA. The module is with SMA Female.

The broadband 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: 100MHz-6GHz
- ✓  $P_{sat}:+28dBm$
- ✓ Small signal gain: 13dB
- ✓ Simple Power Supply

### Application

- ✓ EW Application
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		100MHz-6GHz	
Gain		13dB	
P1dB		+27dBm	
Psat		+28dBm	
Drain Supply		+12V	+15V
Current		450 mA	
NF		6dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





# AT-BB-0006-1328A

0.1-6GHz 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	+16V
RF Input Power	+23 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.

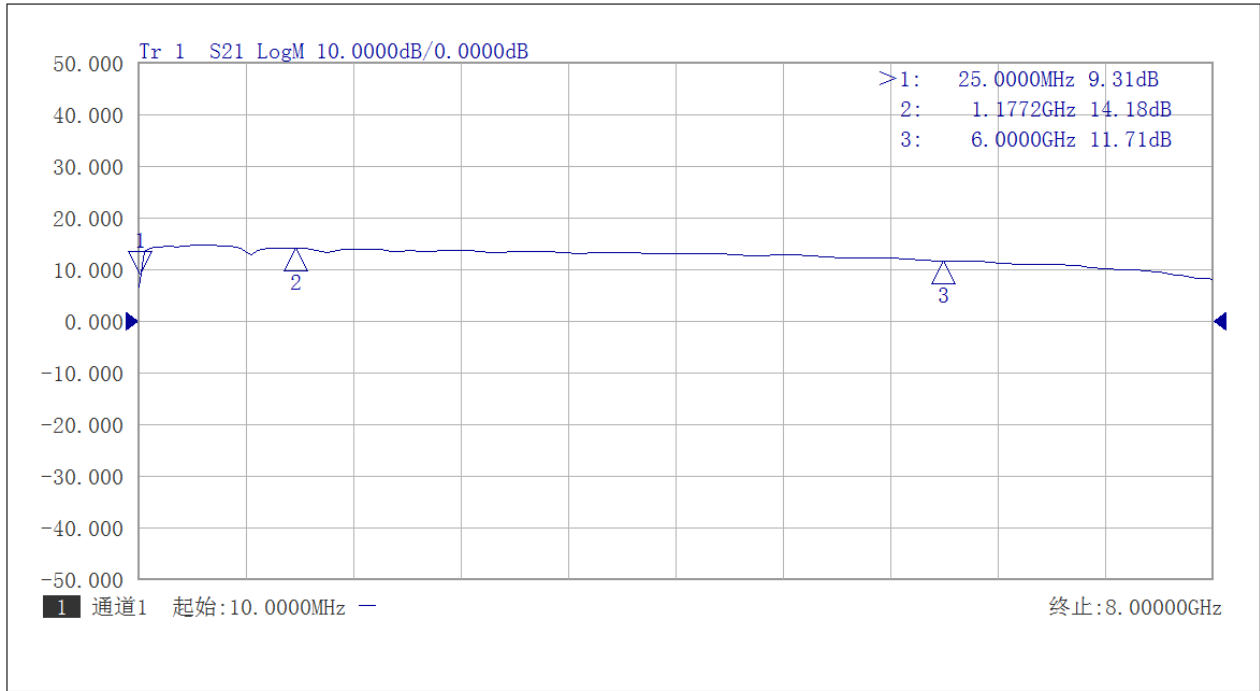
## Notes:

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.

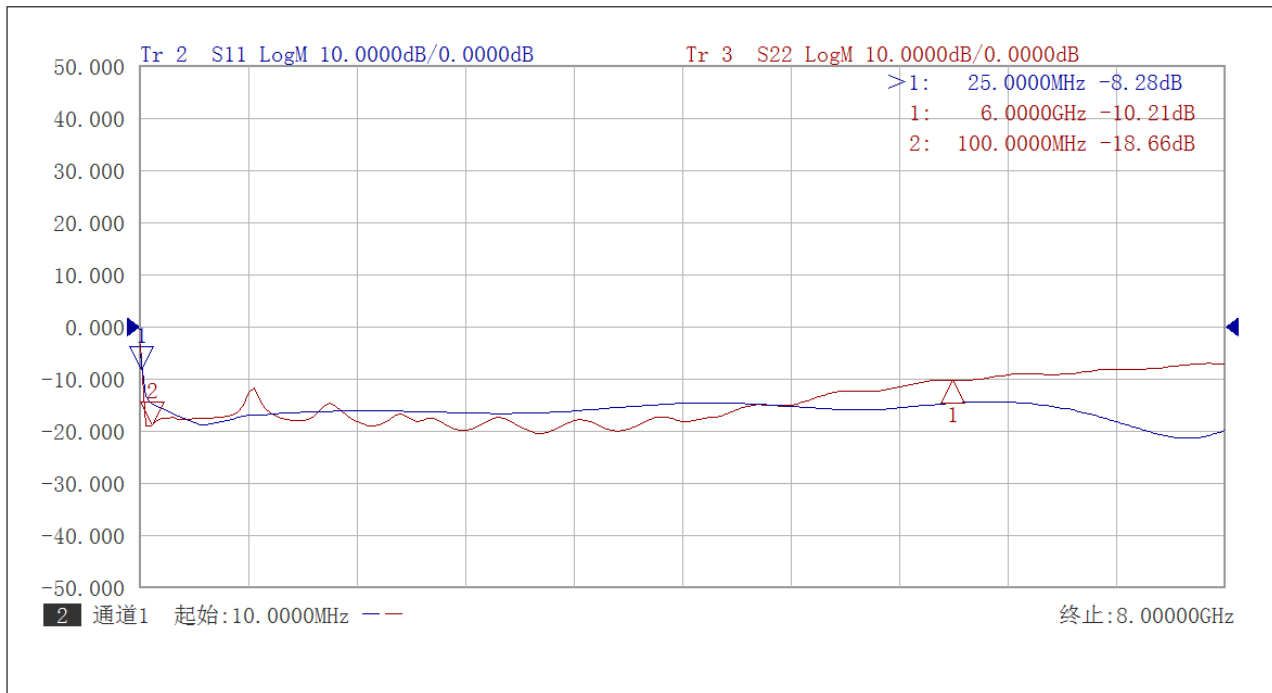


### Test Data (25C)

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



Gain vs Frequency



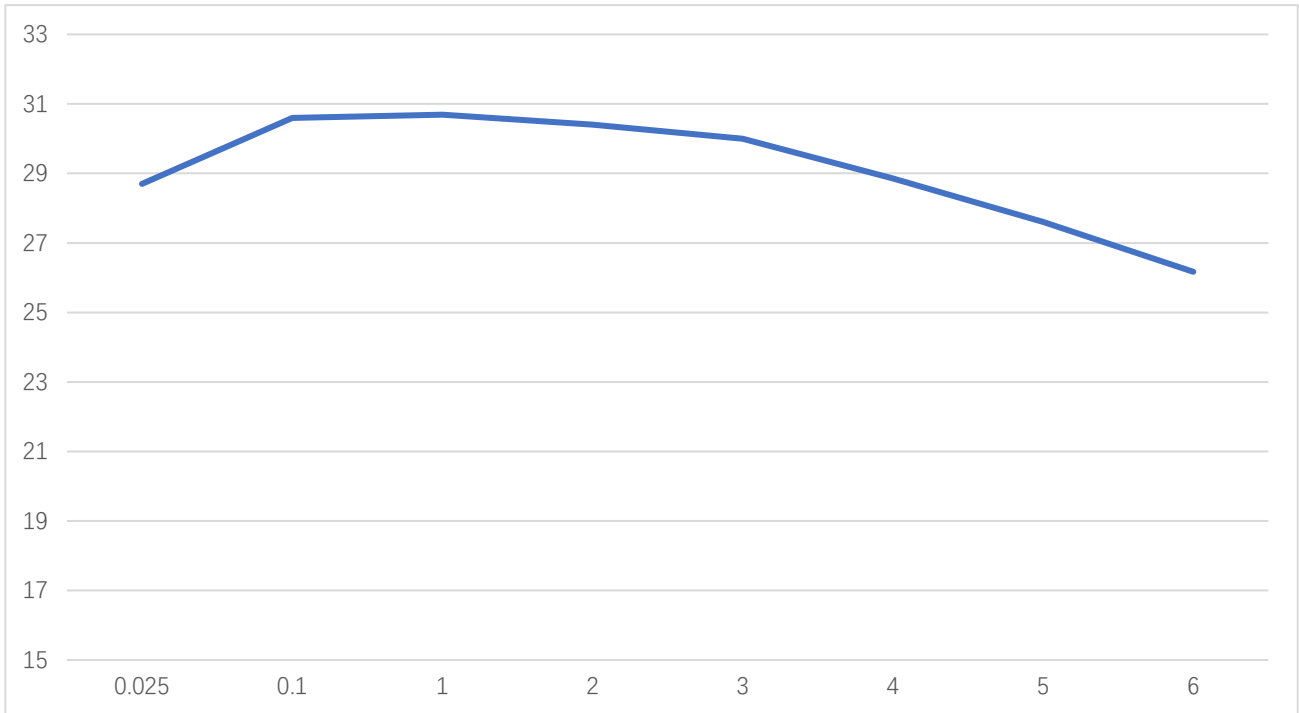
Input and Output Return Loss vs Frequency



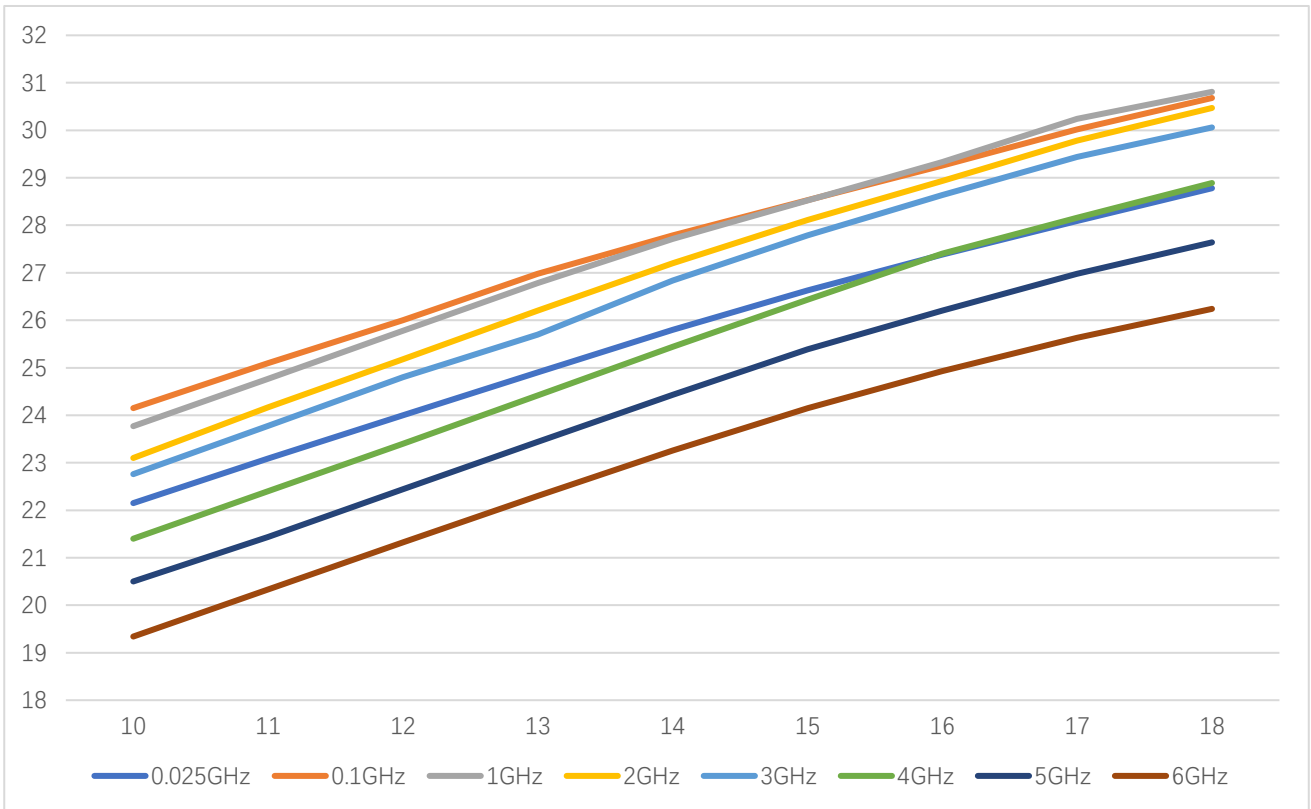


# AT-BB-0006-1328A

0.1-6GHz Broadband Amplifier



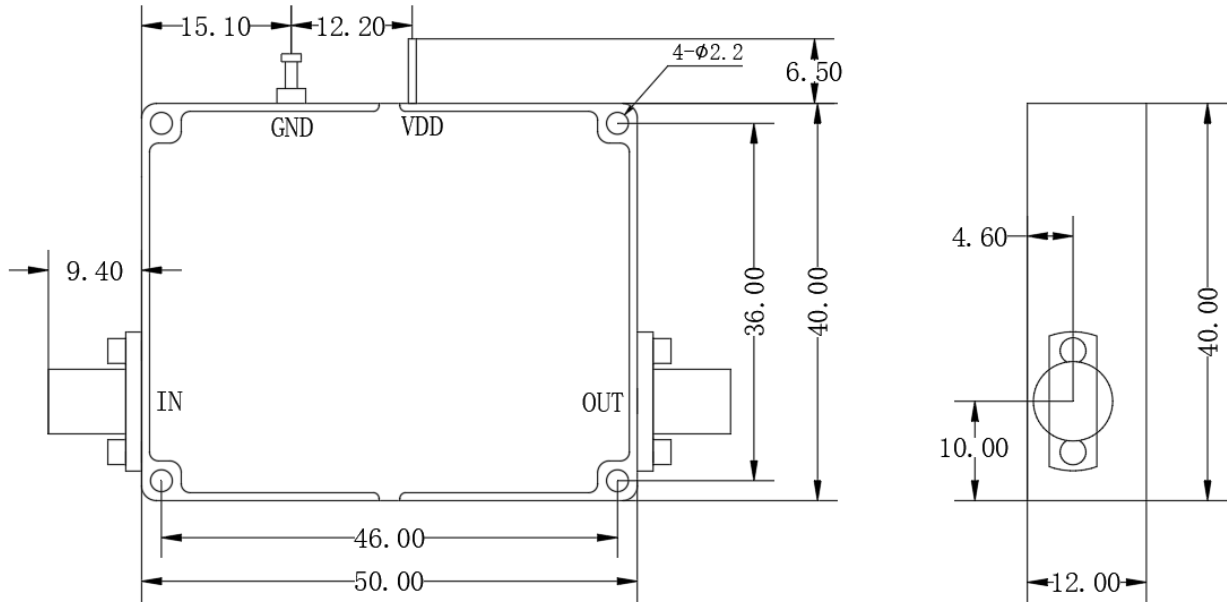
Pout vs Frequency at Pin=+17dBm



Pout vs Pin at Different Frequencies



**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**

