

# 50-75GHz High Power Amplifier



### Product Overview

AT-BTPA-5075-3332GN is GaN Based high power amplifier with +32dBm output power in the frequency of 50-75GHz. The module is with standard WR-15 waveguide. Other Connector can be available according to request.

The power 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: 50-75GHz
- ✓ Psat:+32dBm
- ✓ Small signal gain: 33dB
- ✓ Single Power Supply

### Application

- ✓ V Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		50-75GHz	
Small Signal Gain	30	33dB	
Psat	+32dBm +30dBm	50-63GHz: +33dBm 63-75GHz: +32dBm	
Power Supply	+90V	+220V	+240V
Power Consumption		25W	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





# AT-BTPA-5075-3332GN

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## Mechanical Information

Item	Description
Input Port	WR-15
Output Port	WR-15
Case Material	Copper
Finish	Plated
Weight	2.5kg
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+260V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## 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

### 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.

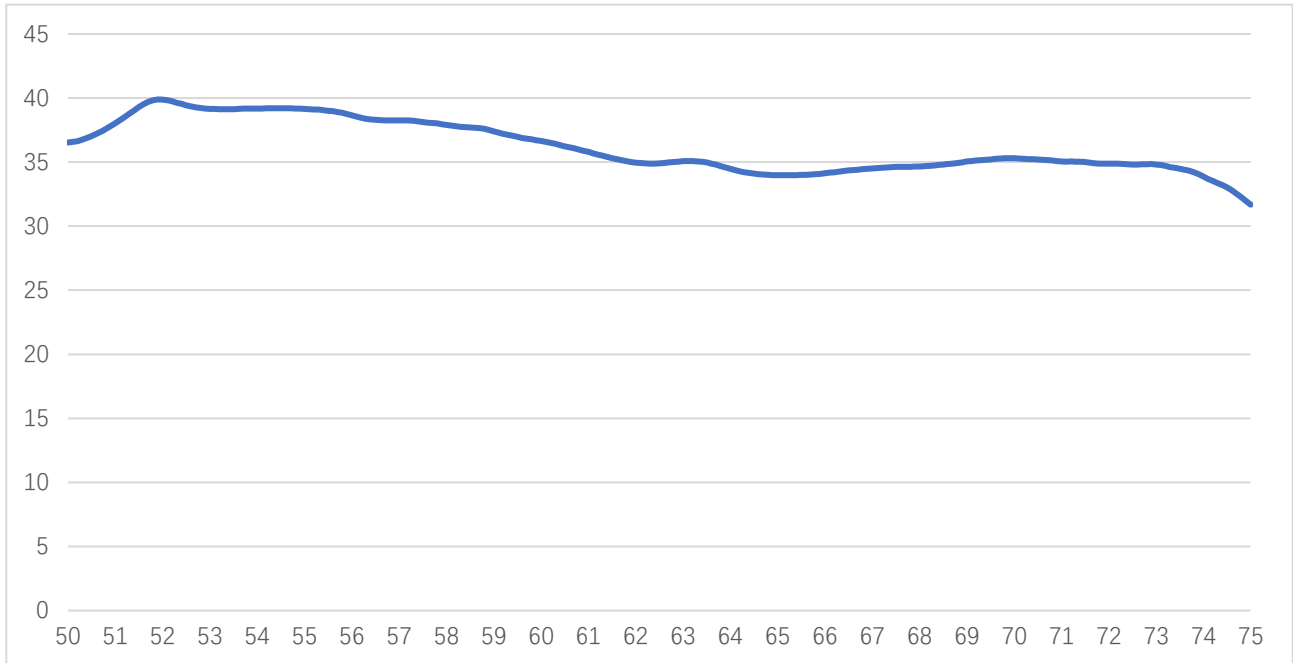




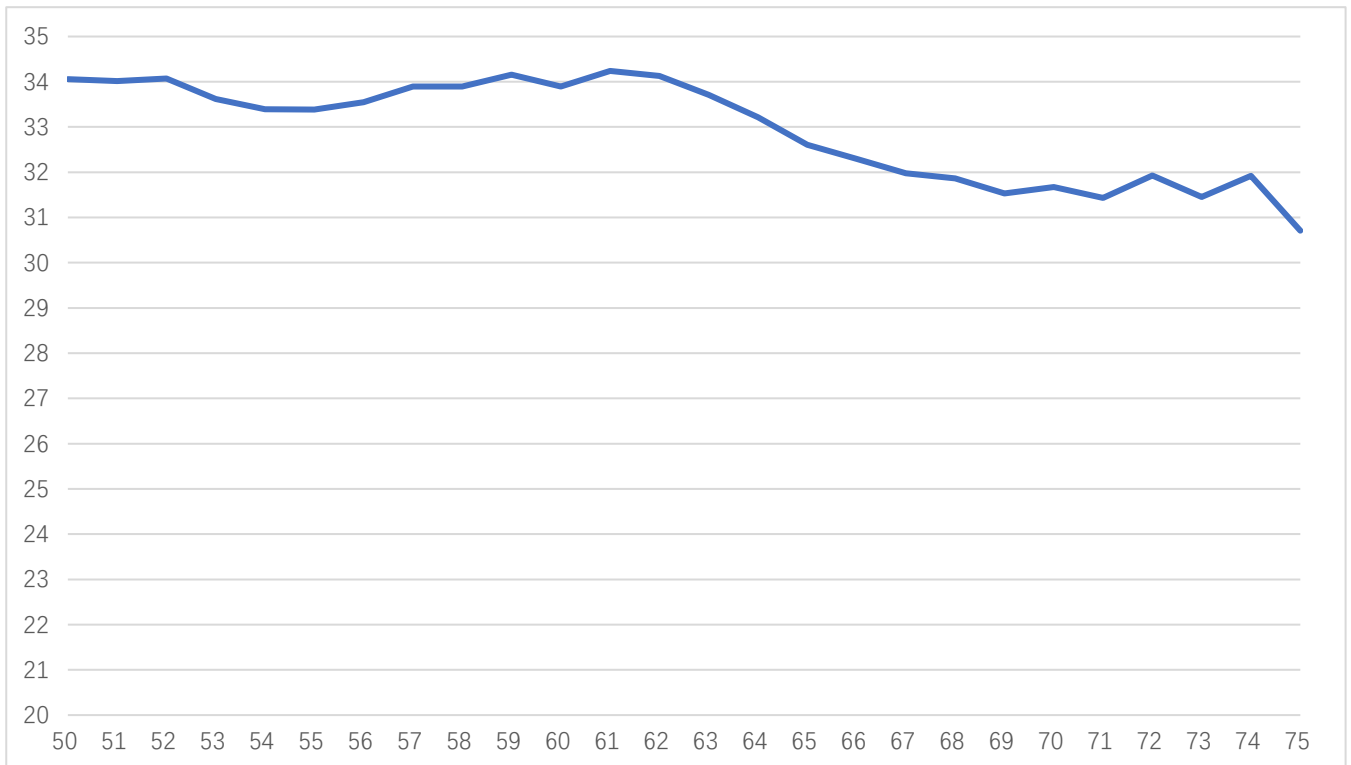
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## Test data:

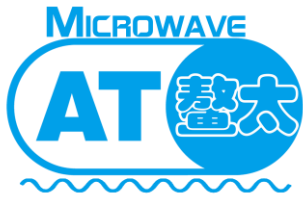


Gain vs Frequency



Psat vs Frequency





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**Dimension:** (unit: mm)

