

### 57-66GHz Broadband Amplifier, +26dBm

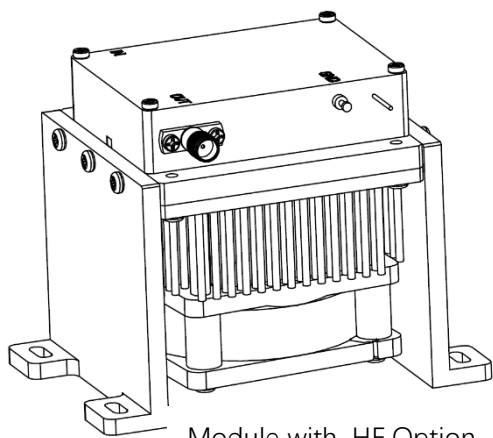
2022-9-1

#### Product Overview

AT-PA-5766-2326VG is high gain power amplifier with +26dBm output power in the frequency of 57-66GHz. The DC power requirement is +5V/2.25A. The module is with 1.85mm connector.

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)



Module with -HF Option

#### Advantages

- ✓ Frequency: 57-66GHz
- ✓ Pout: +26dBm
- ✓ Small signal gain: 23dB
- ✓ Single Power Supply

#### Application

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

#### Key Features

Parameter	Min	Typical	Max
Frequency		57-66GHz	
Gain	21dB	23dB	
Gain Flatness		+/-2.5dB	
P1dB	+23dBm	+24dBm	
Psat	+25dBm	+26dBm	
Drain Supply		+5V	+6V
Current/Quiescent		1.8A	
IDD Psat		2.25A	2.5A
Input Return Loss		-6dB	
Output Return Loss		-6dB	
Spec Temp		23C	





# AT-PA-5766-2326VG

57-66GHz Power Amplifier

## Mechanical Information

Item	Description
Input Port	1.85mm Female
Output Port	1.85mm Female
Case Material	Copper
Finish	Gold Plated
Weight	230g
Size:	60X45X14mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+15 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-66 to +150C

### Caution:

Please pay attention to the case temperature.

If case temperature exceeds +50C, heat sink and fan are required.

### Bias Procedure:

Make sure GND is connected before Vdd Power ON.

Module may be damaged when Vdd Power ON without GND.





# AT-PA-5766-2326VG

57-66GHz Power Amplifier

## Part Number Selection

Item	Description
AT-PA-5766-2326VG	In defaulted without heatsink and Fan. Heatsink and Fan required during operation.
AT-PA-5766-2326VG-HF	Including Heatsink and Fan. Fan bias is connected with PA Module's Vdd supply

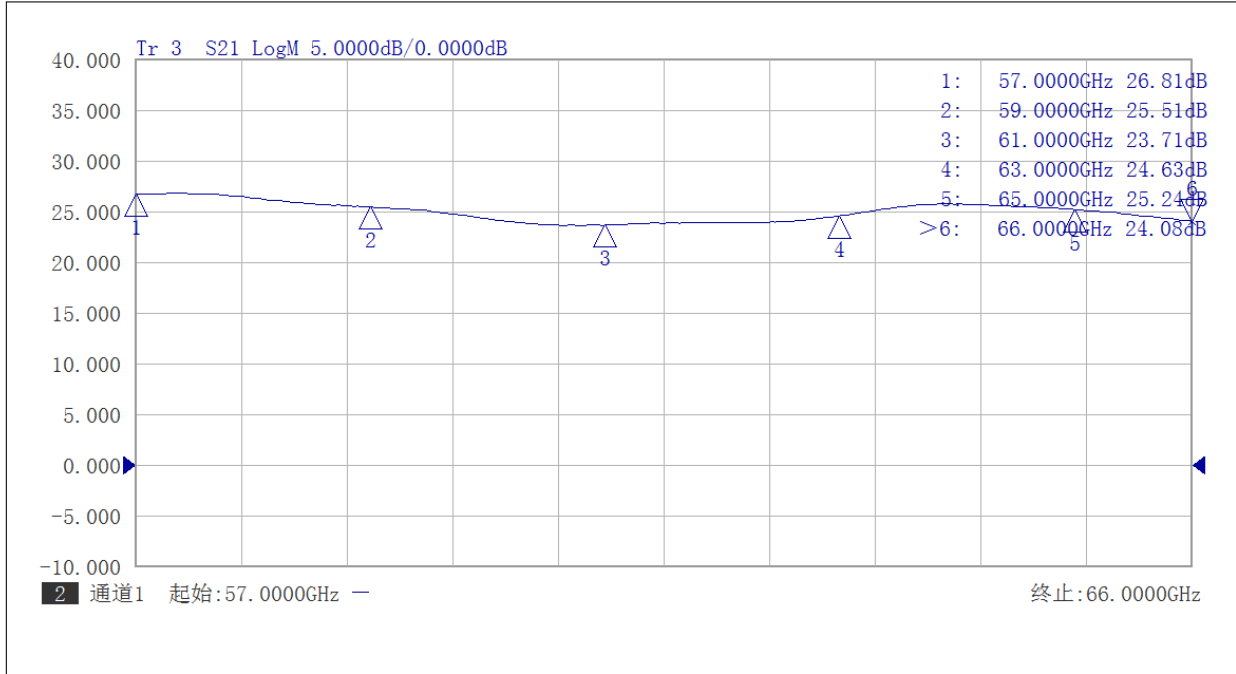
## Notes:

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.

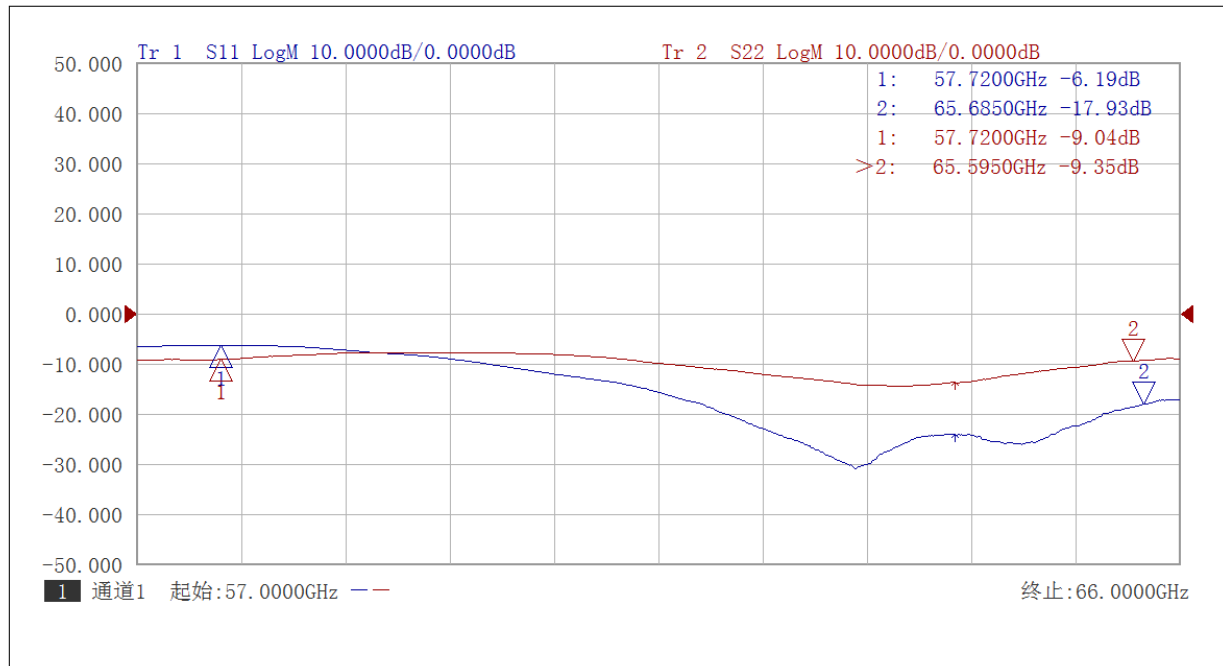


### Test Data

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

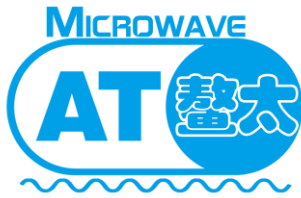


Gain vs Frequency



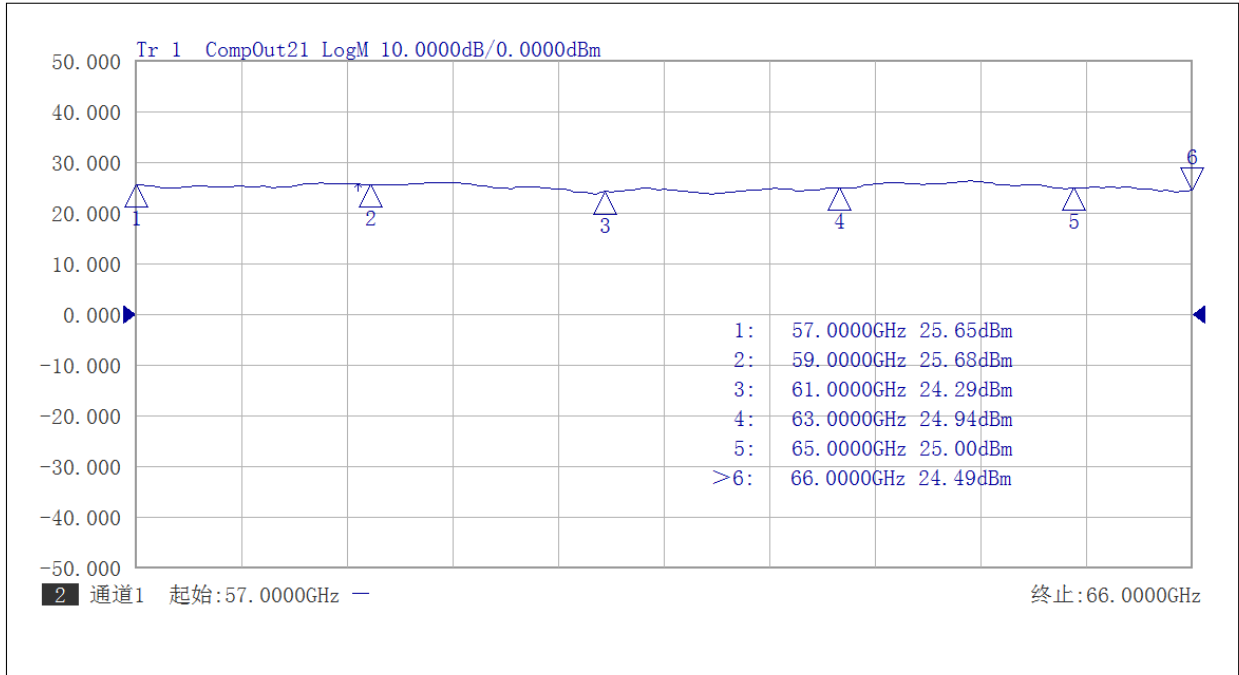
Return Loss vs Frequency



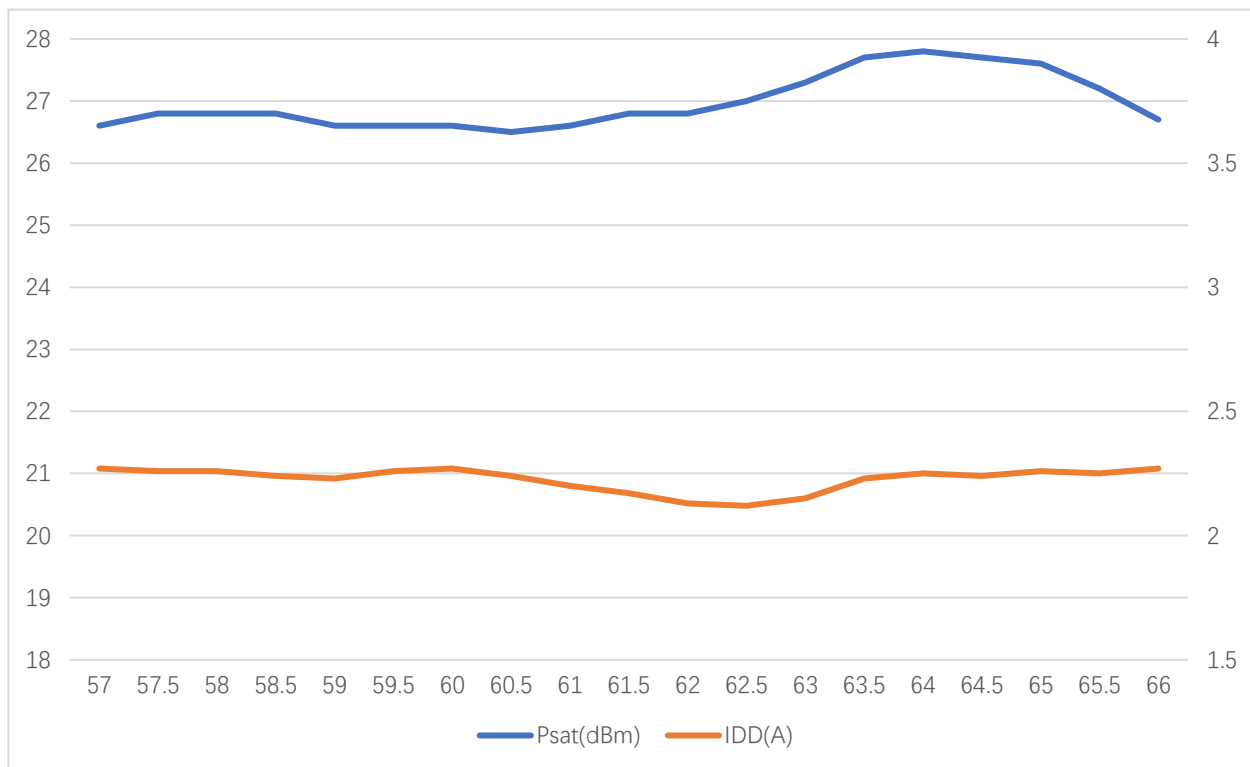


# AT-PA-5766-2326VG

57-66GHz Power Amplifier

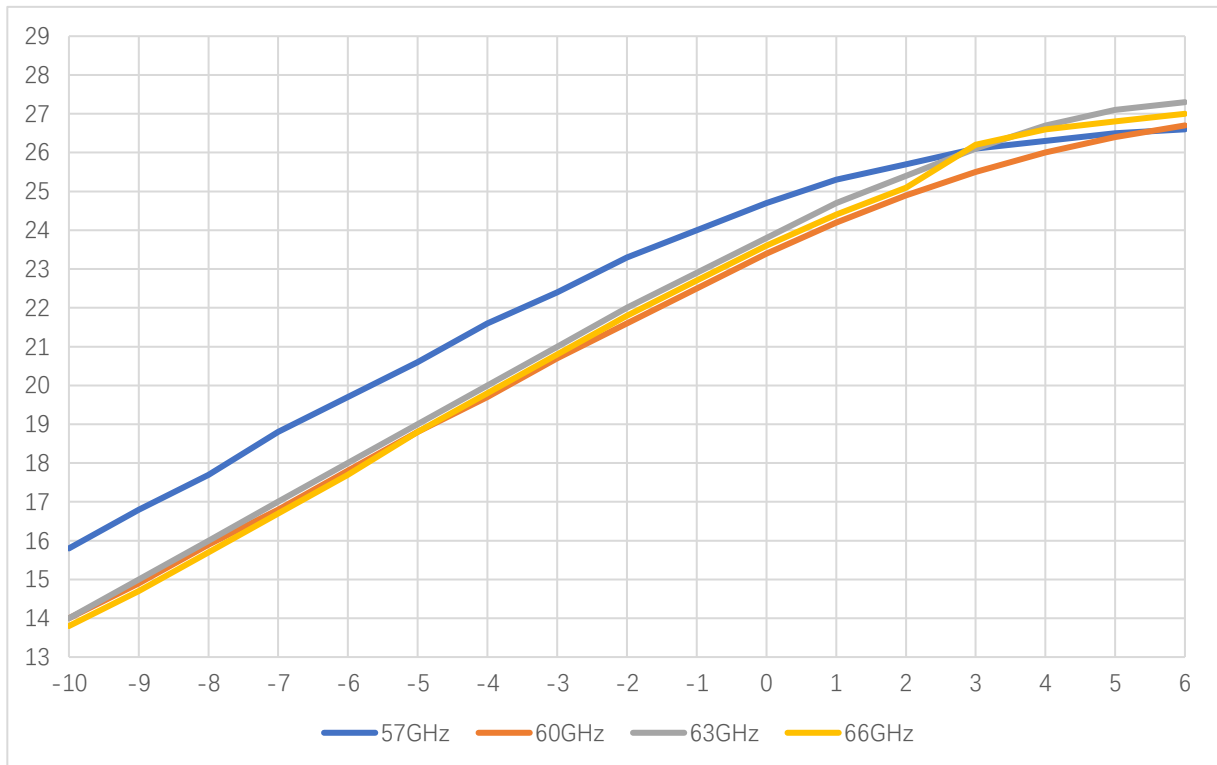


P1dB vs Frequency

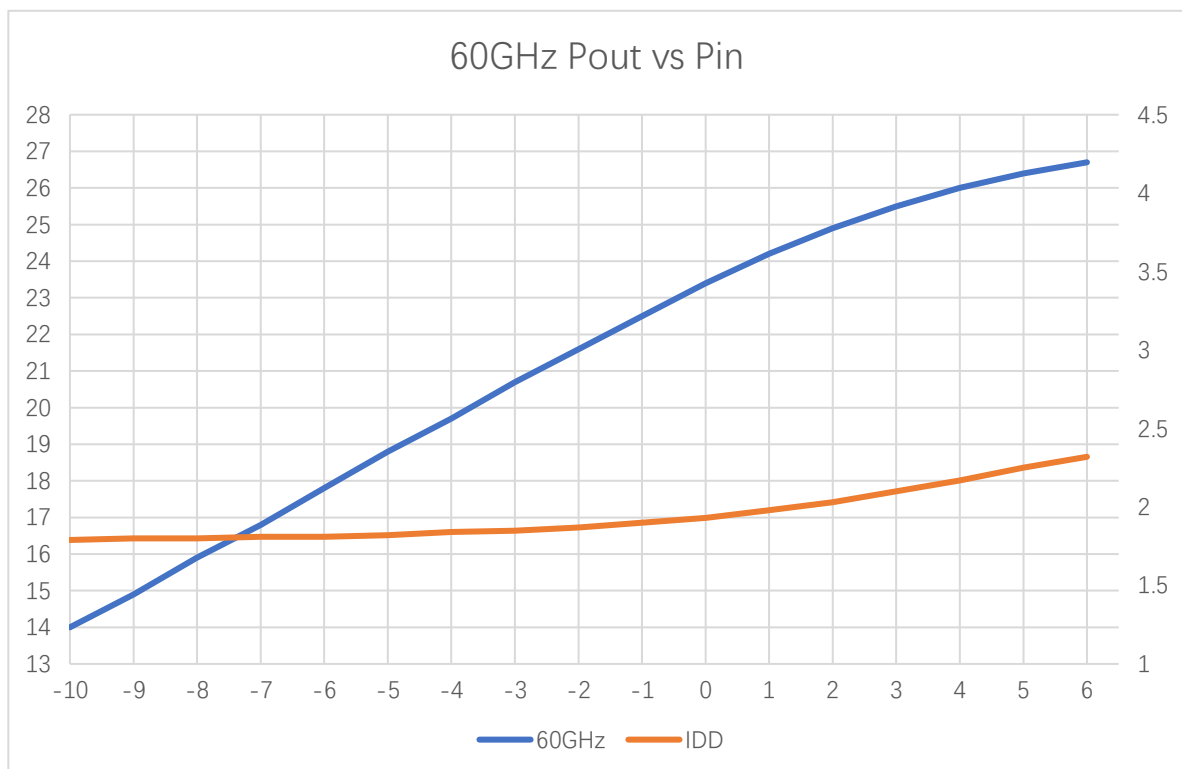


Psat and IDD vs Frequency





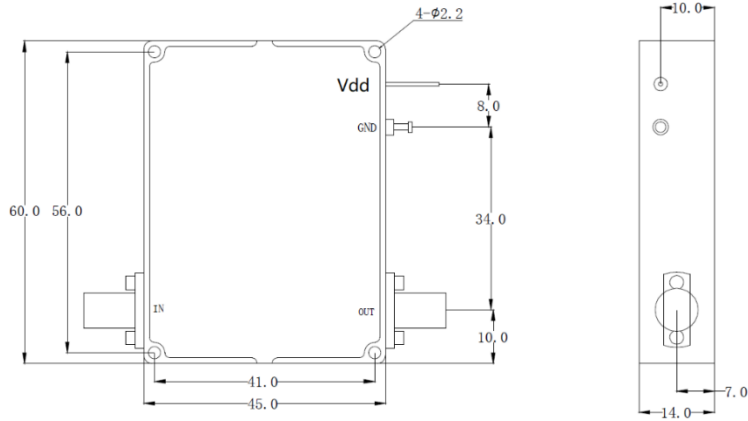
Pout vs Pin at 57/60/63/66GHz



Pout and IDD vs Pin at 60GHz



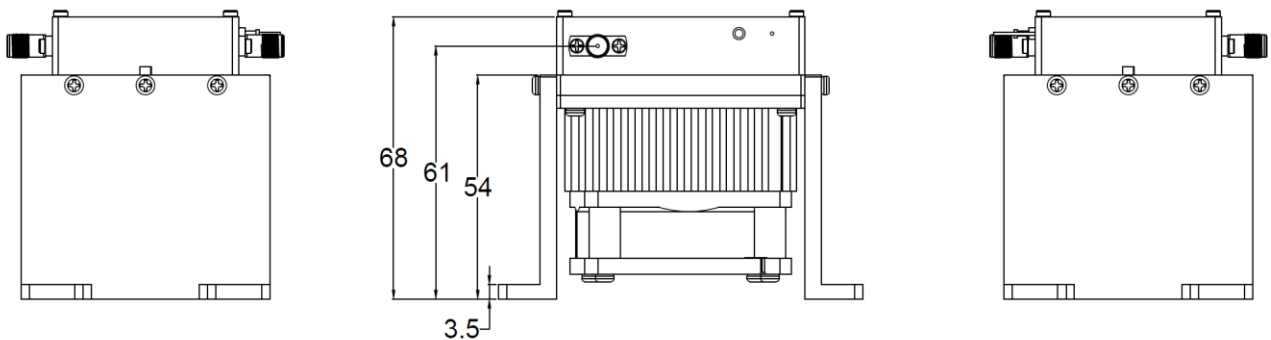
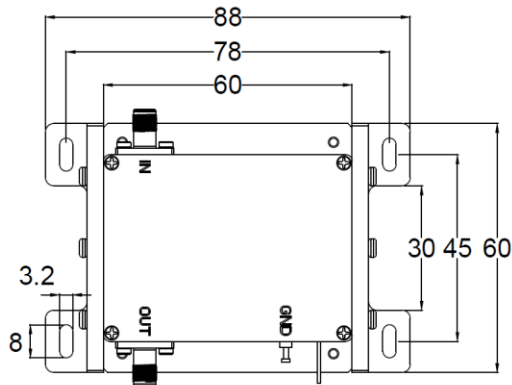
### Dimension: (unit mm)



	<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.

Outline without heatsink. Heat Sink Required During Operation



Outline-HF option with heatsink

