

# AT-PA-195220-1810

195-220GHz Power Amplifier, Psat=+10dBm

## 195-220GHz Power Amplifier Gain=18dB, Pout=+10dBm



### Product Overview

AT-PA-195220-1810 is power amplifier with +10dBm output power in the frequency of 195-220GHz. The DC power requirement is +5V/150mA. The module is with a standard WR-04 waveguide.

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: 195-220GHz
- ✓ Psat:+10 dBm
- ✓ Small signal gain: 18dB
- ✓ Single Power Supply

### Application

- ✓ G/H band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
Frequency		195-220GHz	
Gain	15dB	18dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.15A	
PSAT Current/A		0.2A	
Psat	+8dBm	+10dBm	
Input VSWR		2.5	3
Output VSWR		3	5
Temp Spec		25C	

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195-220GHz Power Amplifier,  $P_{sat}=+10dBm$

## Mechanical Information

Item	Description
Input Port	WR-04
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	185g
Size:	35X30X24mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Caution:

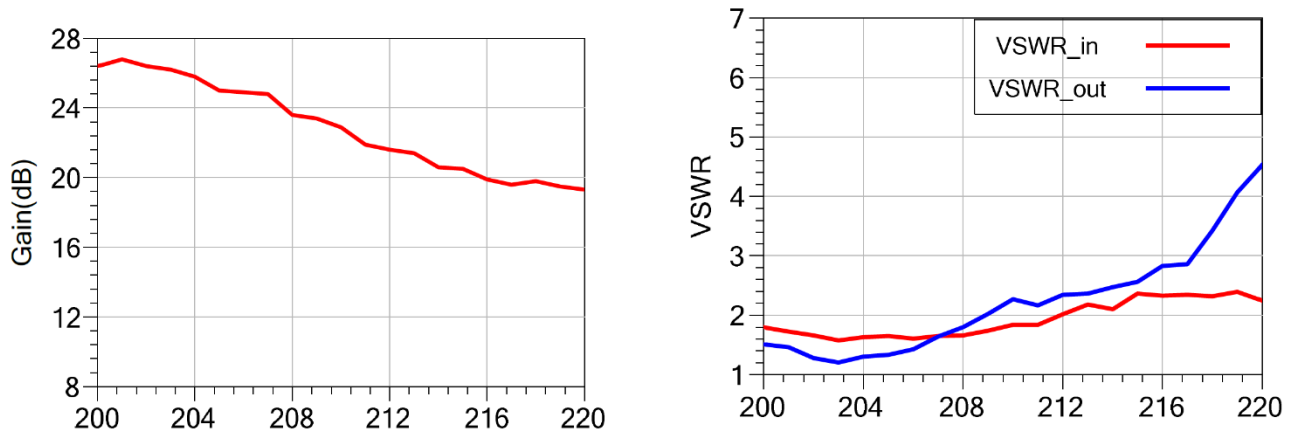
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

### Notes:

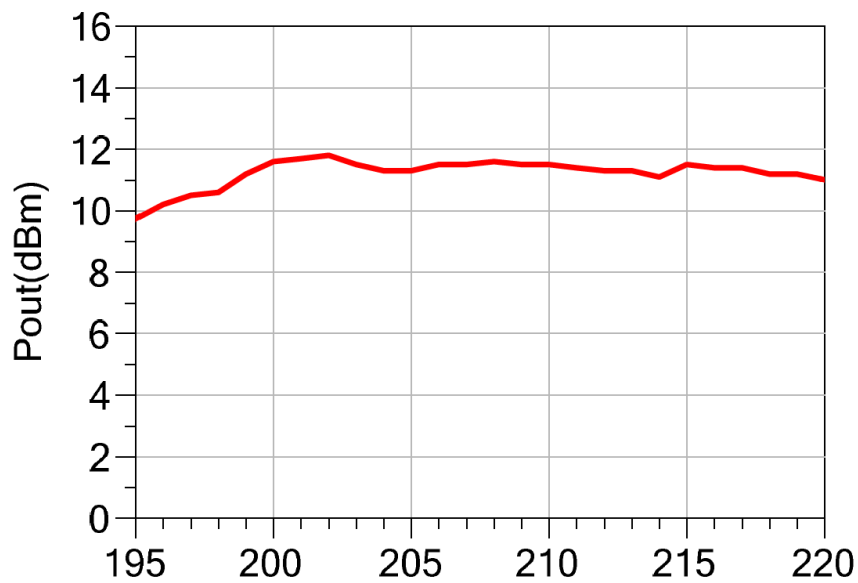
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



## Test Data

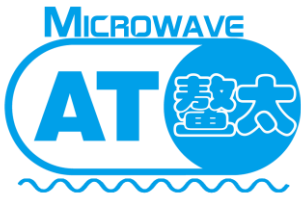


Gain and VSWR vs Frequency



Pout vs Frequency, Pin=+1dBm





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Dimension:(unit in mm)

