

## 210-230GHz Band Power Amplifier High Power=+20dBm

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### Product Overview

AT-PA-210230-2520T is power amplifier with +20dBm output power in the frequency of 210-230GHz. The DC power requirement is +5V/1.3A. 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: 210-230GHz
- ✓ Psat:+20 dBm
- ✓ Small signal gain: 25dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		210-230GHz	
Gain	22dB	25dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.8A	
PSAT Current/A		1.3A	
Psat (Pin=+6dBm)	+17dBm	+20dBm	
Input VSWR		2.5:1	4:1
Output VSWR		3:1	5:1
Temp Spec		25C	





# AT-PA-210230-2520T

210-230GHz Power Amplifier,  $P_{sat}=+20\text{dBm}$

## Mechanical Information

Item	Description
Input Port	WR-04
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	165g
Size:	See outline

## 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.

