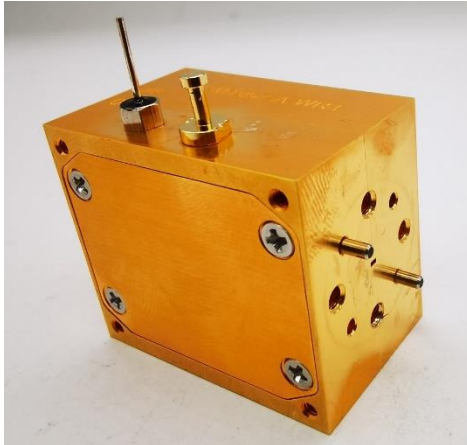


## 210-230GHz Band Power Amplifier



### Product Overview

AT-PA-210230-1514 is power amplifier with +14dBm output power in the frequency of 210-230GHz. The DC power requirement is +5V/350mA. 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:+14 dBm
- ✓ Small signal gain: 15dB
- ✓ 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	13dB	15dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.3A	
PSAT Current/A		0.35A	
Psat	+12dBm	+14dBm	
VSWR Input/Output		3:1	5:1
Temp Spec		25C	





# AT-PA-210230-1514

210-230GHz Power Amplifier, Psat=+14dBm

## 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	+10V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +140C

## 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.

## Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter



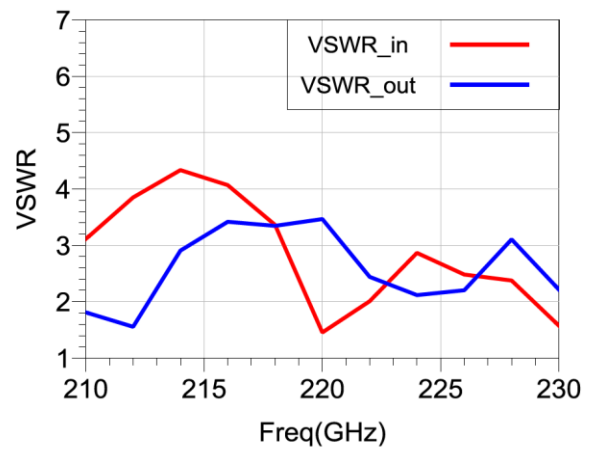
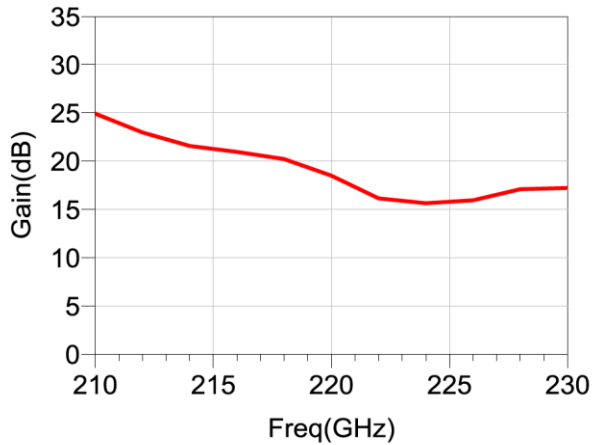


# AT-PA-210230-1514

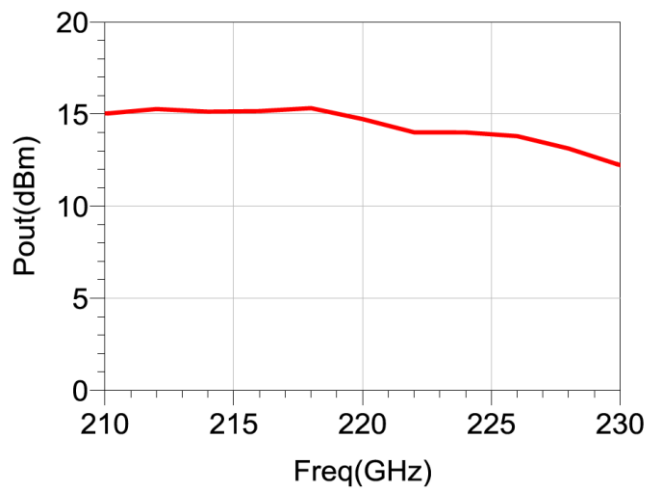
210-230GHz Power Amplifier,  $P_{sat}=+14\text{dBm}$

## Test Data (25C)

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



Gain and VSWR vs Frequency



Pout vs Frequency,  $P_{in}=+6\text{dBm}$



**Dimension:**(unit in mm)

