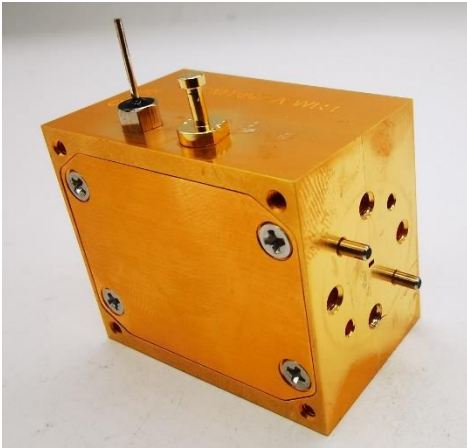


215-230GHz Band Power Amplifier



Product Overview

AT-PA-215230-1510 is power amplifier with +10dBm output power in the frequency of 215-230GHz. The DC power requirement is +5V/180mA. 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

Advantages

- ✓ Frequency: 215-230GHz
- ✓ Psat: +10 dBm
- ✓ Small signal gain: 15dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		215-230GHz	
Gain	12dB	15dB	
Drain Supply		+5V	+8V
Current/A		0.18A	
Psat	+8dBm	+10dBm	
VSWR Input		2:1	3:1
VSWR Output		2.5:1	4:1
Temp Spec		25C	





AT-PA-215230-1510

215-230GHz Power Amplifier, Psat=+10dBm

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 +100C

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
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter



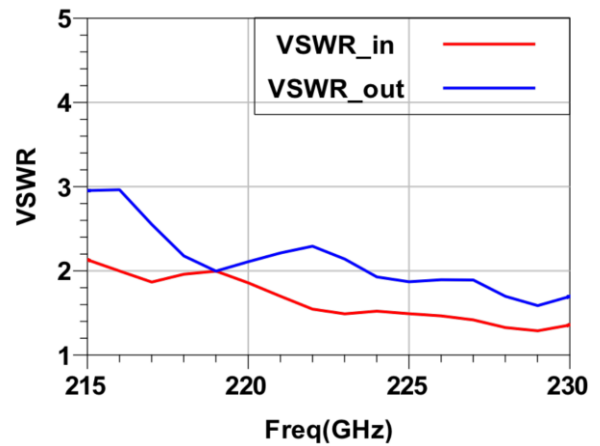
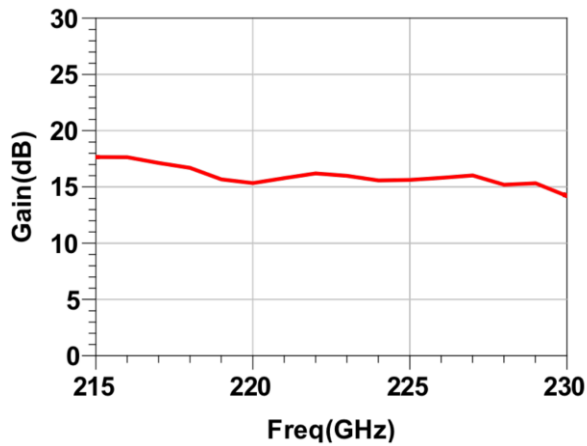


AT-PA-215230-1510

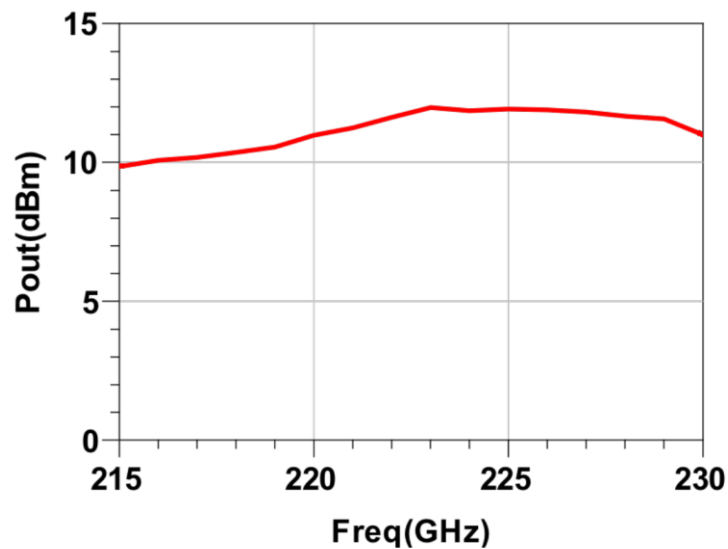
215-230GHz Power Amplifier, $P_{sat}=+10\text{dBm}$

Test Data (25C)

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



Gain and VSWR vs Frequency



Pout vs Frequency, $P_{in}=+3\text{dBm}$



Dimension:(unit in mm)

