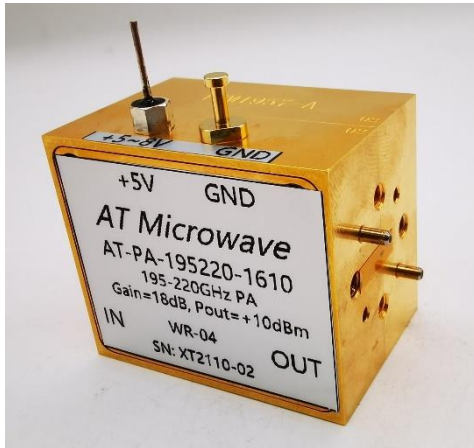


210-230GHz Band Power Amplifier



Product Overview

AT-PA-210230-1020 is power amplifier with +20dBm output power in the frequency of 210-230GHz. The DC power requirement is +5V/0.9A. 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: 210-230GHz
- ✓ Psat: +20 dBm
- ✓ Small signal gain: 18dB
- ✓ 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		210-230GHz	
Gain	15dB	10dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.7A	
PSAT Current/A		0.9A	
Psat	+17dBm	+20dBm	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Temp Spec		25C	





AT-PA-210230-1020

210-230GHz 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)	101g
Size:	35X30X30mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
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.



Dimension:(TBD)

