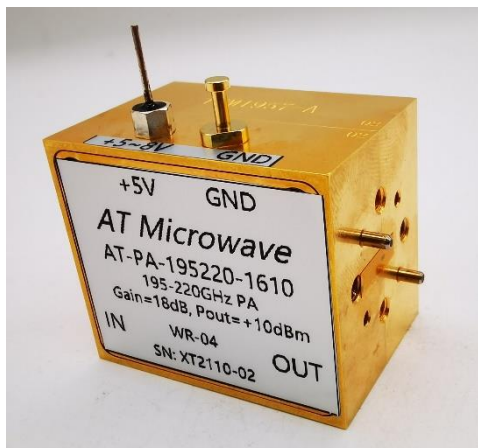


210-230GHz Band Power Amplifier



Product Overview

AT-PA-210230-1814 is power amplifier with +14dBm output power in the frequency of 210-230GHz. The DC power requirement is +7V/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

Advantages

- ✓ Frequency: 210-230GHz
- ✓ Psat:+14 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	14dB	18dB	
Drain Supply		+7V	+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-210230-1814

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

Mechanical Information

Item	Description
Input Port	WR-04
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	101g
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

Caution:

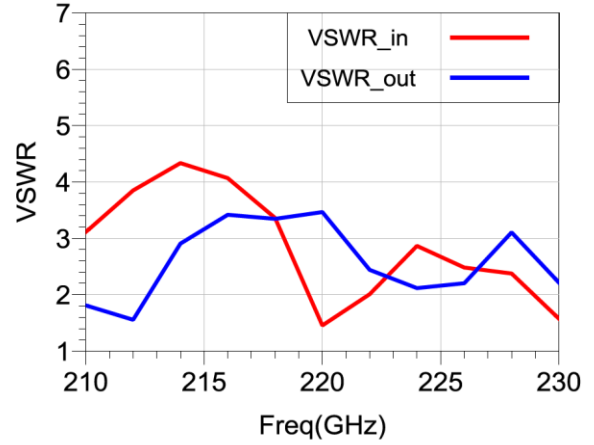
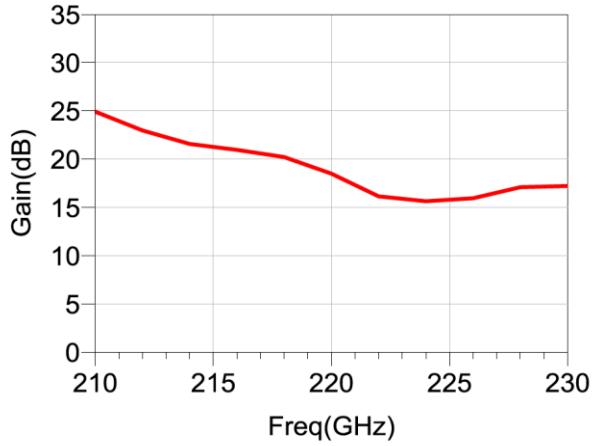
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

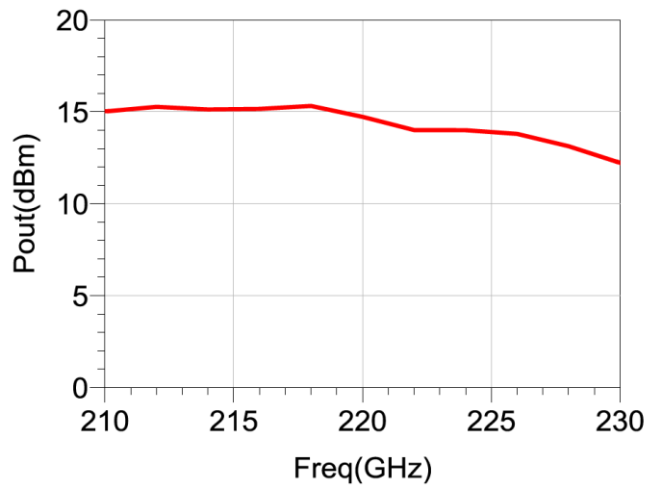
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data:



Gain and VSWR vs Frequency



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



Dimension:(unit in mm)

