



AT-PA-195220-1810E

195-220GHz Power Amplifier, $P_{sat}=+10\text{dBm}$

195-220GHz Power Amplifier Gain=18dB, $P_{out}=+10\text{dBm}$



Product Overview

AT-PA-195220-1810E is power amplifier with +10dBm output power in the frequency of 195-220GHz. The DC power requirement is +5V/150mA. 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: 195-220GHz
- ✓ P_{sat} : +10 dBm
- ✓ Small signal gain: 18dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		195-220GHz	
Gain	15dB	18dB	
Drain Supply		+5V	+8V
Quiescent Current/A (NO RF)		0.15A	
PSAT Current/A		0.2A	
P_{sat}	+8dBm	+10dBm	
Input VSWR		2.5	3
Output VSWR		3	5
Temp Spec		25C	





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Mechanical Information

Item	Description
Input Port	WR-04
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight	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

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



Test Data (25C)

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

Dimension:(unit in mm)

