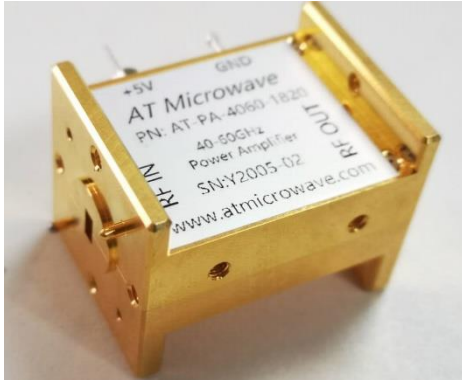


2020-08-18

## Q Band High Power Amplifier

### 33-50GHz, Gain=35dB, Pout=+23dBm



#### Product Overview

AT-PA-3350-3523T is high power amplifier with +23dBm output power in the frequency of 33-50GHz. The DC power requirement is +5V/600mA. The module is with a standard WR-22 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: 33-50GHz
- ✓ P1/Psat:+21/23dBm
- ✓ Small signal gain: 35dB
- ✓ Single Power Supply

#### Application

- ✓ Q Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Key Features

Parameter	Min	Typical	Max
Frequency		33-50GHz	
Gain	32	35dB	
P1Db		+21dBm	
Psat	20	+23dBm	
Drain Supply		+5V	+8V
Idd NO RF		600 mA	
Idd Psat		800mA	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





# AT-PA-3350-3523T

33-50GHz Medium Power Amplifier

## Mechanical Information

Item	Description
Input Port	WR-22
Output Port	WR-22
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	40x30x30 mm

## 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 exceed 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 latest data.



**Dimension:** (unit in mm)

