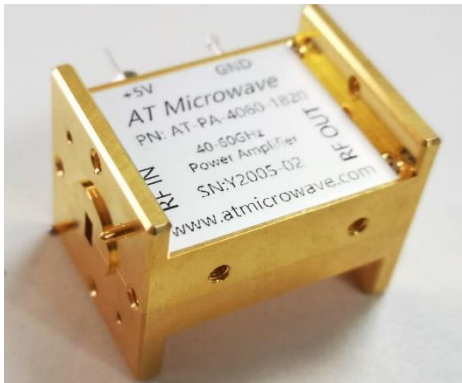


### Q Band High Power Amplifier

2022-3-31

### 33-50GHz, Gain=20dB, Pout=+23dBm



#### Product Overview

AT-PA-3350-2023T is high power amplifier with +23dBm output power in the frequency of 33-50GHz. The DC power requirement is +5V/0.8A. The module is with a standard WR-22 waveguide. Input connector by 2.4mm connector is available according to request.

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: 20dB
- ✓ 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	18dB	20dB	
P1dB	+20dBm +17dBm	33-47GHz: +21dBm 47-50GHz: +18dBm	
Psat	+22dBm +19dBm	33-47GHz: +23dBm 47-50GHz: +20dBm	
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-3350-2023T

33-50GHz Medium Power Amplifier

## Mechanical Information

Item	Description
Input Port	WR-22
Output Port	WR-22
Case Material	Copper
Finish	Gold Plated
Weight	180g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

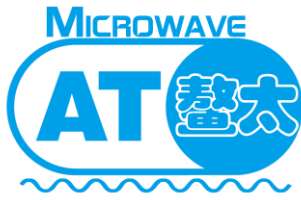
## Notes:

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 latest data.

## Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter

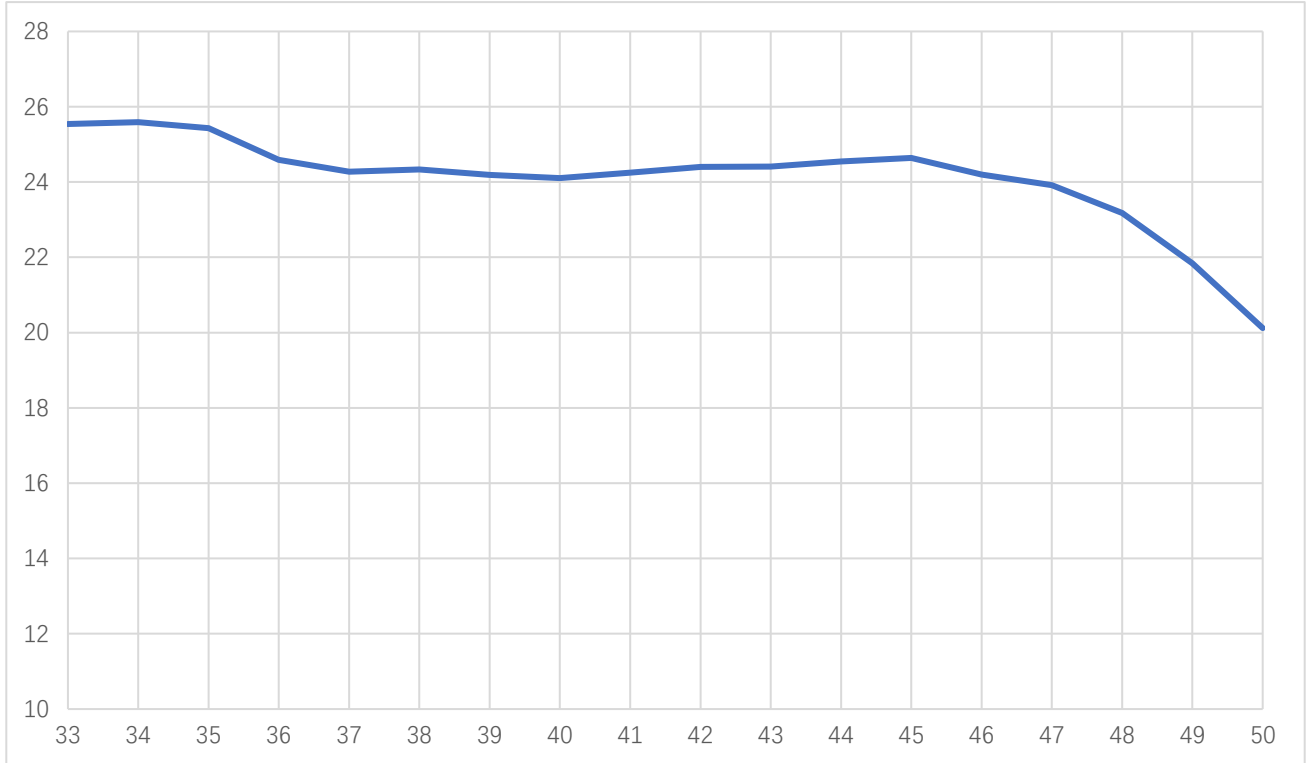




# AT-PA-3350-2023T

33-50GHz Medium Power Amplifier

## Test Data:



Psat vs Frequency

**Dimension:** (unit in mm)

To be added.

