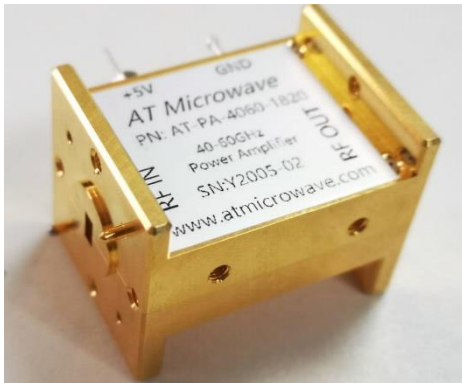


Q Band High Power Amplifier

2022-3-31

33-50GHz, Gain=45dB, Pout=+23dBm



Product Overview

AT-PA-3350-4523T 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 very low NF=2.8dB, which can be used as low noise amplifier.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 33-50GHz
- ✓ P1/Psat:+21/23dBm
- ✓ Small signal gain: 45dB
- ✓ NF=2.8dB

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		33-50GHz	
Gain	42	45dB	
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	
NF		2.8dB	3.8dB
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





AT-PA-3350-4523T

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

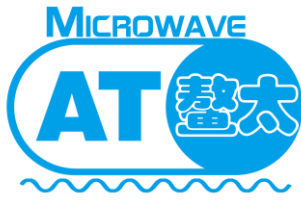
Notes:

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

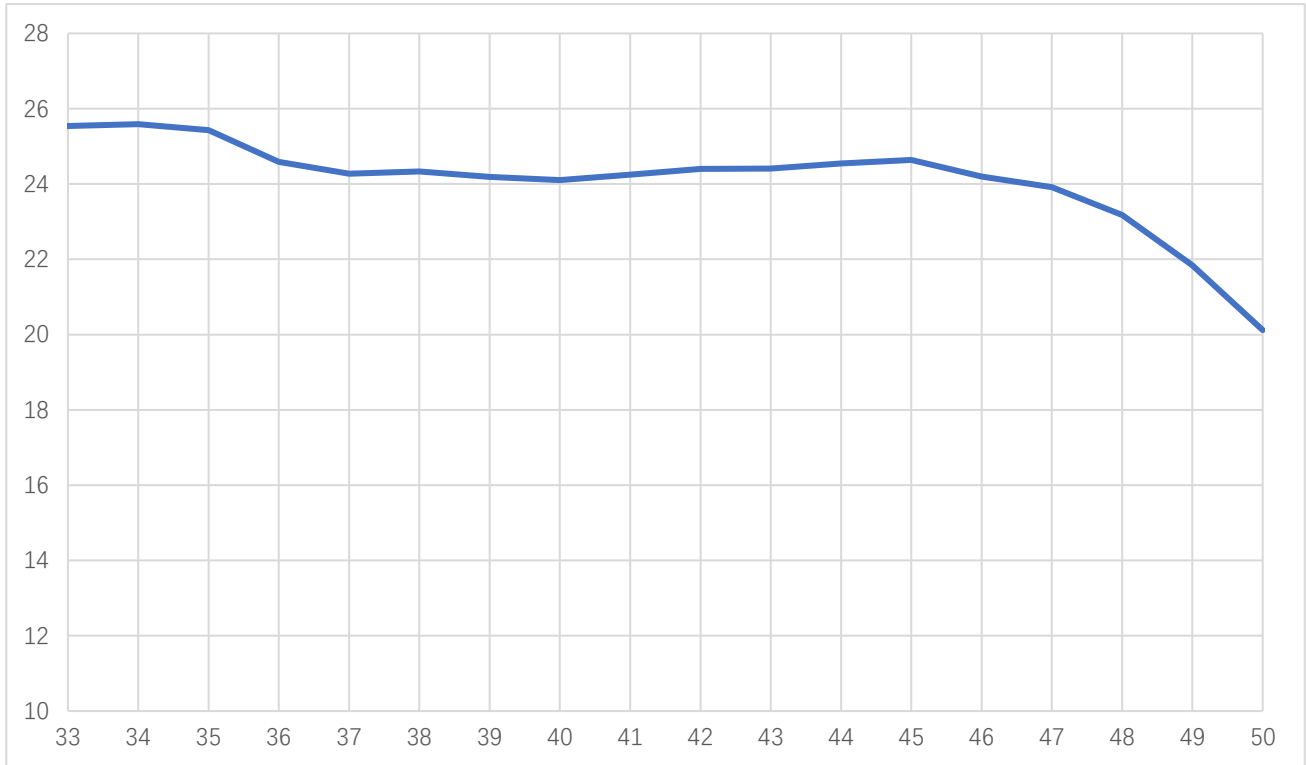




AT-PA-3350-4523T

33-50GHz Medium Power Amplifier

Test Data:



Psat vs Frequency

Dimension: (unit in mm)

To be added.

