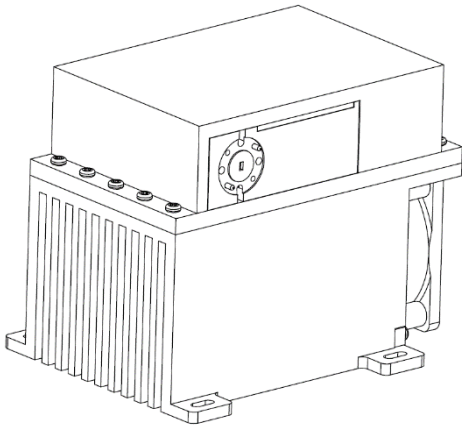


90-98GHz High Power Amplifier

Gain=35dB, Pout=+33dBm

2022-9-1



Product Overview

AT-PA-9098-3533GT is GaN Based high power amplifier with +33dBm output power in the frequency of 90-98GHz. The DC power requirement is +20V/1.8A. The module is with standard WR-10 waveguide. Other Connector can be 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

Advantages

- ✓ Frequency: 90-98GHz
- ✓ Psat:+33dBm
- ✓ Small signal gain: 35dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		90-98GHz	
Small Signal Gain	32dB	35dB	
Psat	+32.5dBm +31.5dBm	92-96GHz: +33dBm 90-92, 96-98GHz: +32dBm	
Vdd		+20V	+22V
Id(NO RF)		1.1A	
Id(Psat)		1.8A	2.1A
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





AT-PA-9098-3533GT

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Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight	Without Heatsink: 500g With Heatsink: 1.3kg
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+22V
RF Input Power	+16dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

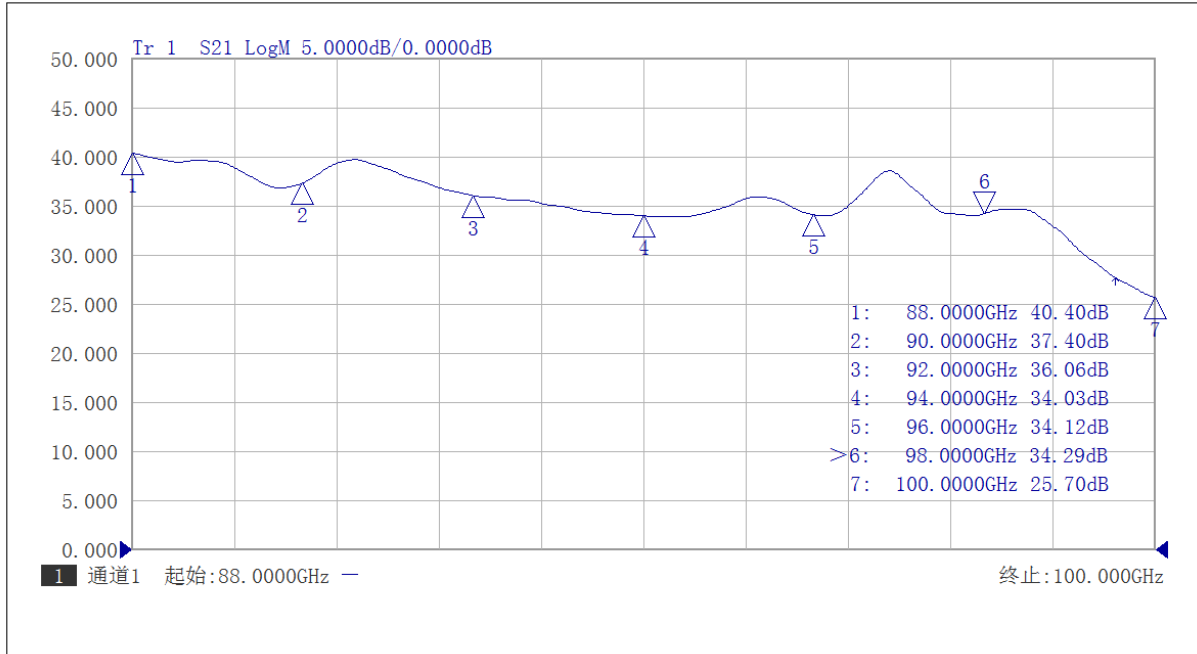
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data

Caution:

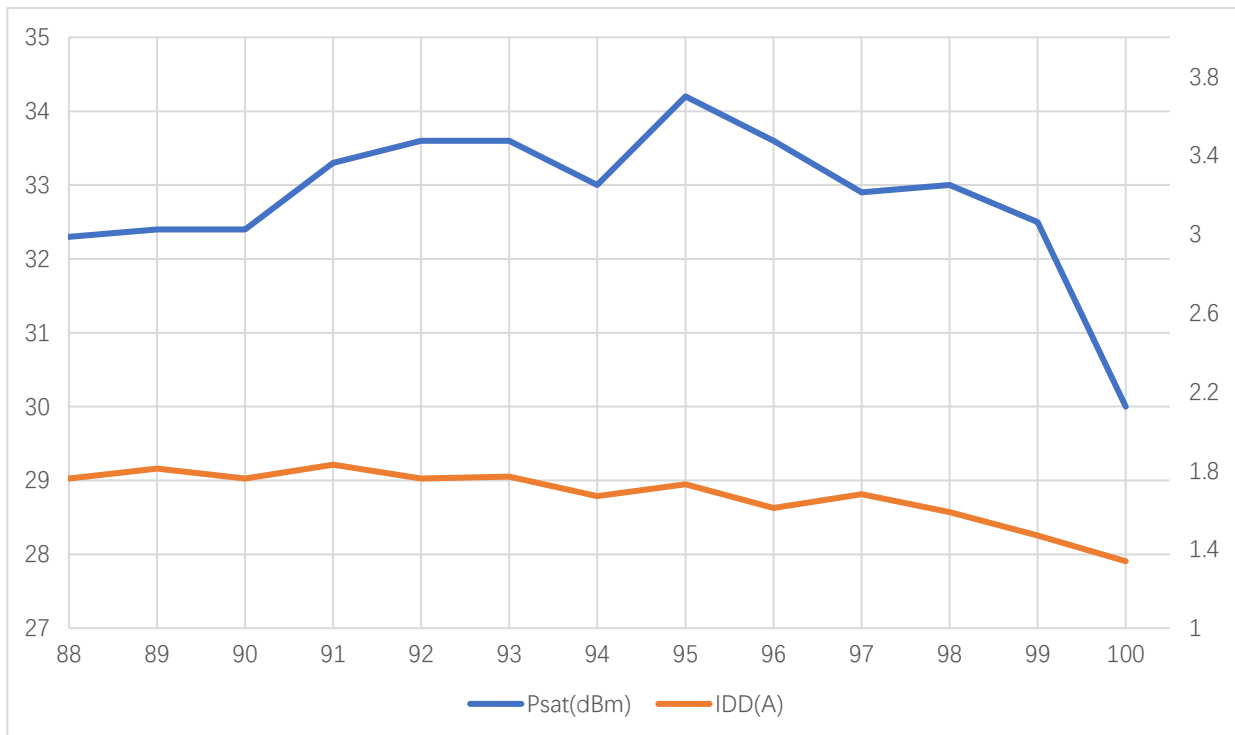
Please pay attention to the case temperature. If case temperature exceed higher than +90C, heat sink and fan are required, or the amplifier may be damaged.



Test Data



Gain vs Frequency



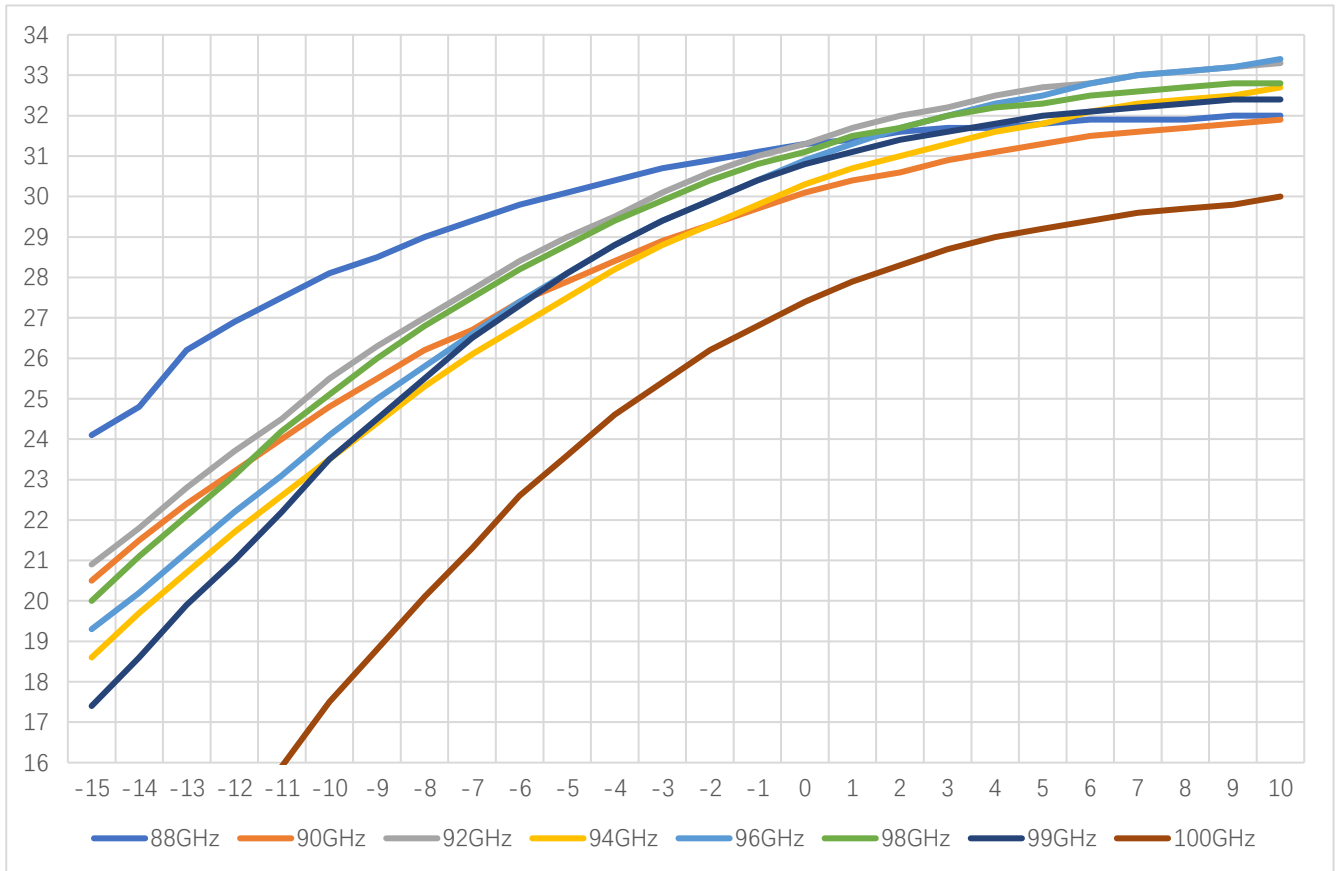
Psat and IDD vs Frequency, Pin=+14dBm





AT-PA-9098-3533GT

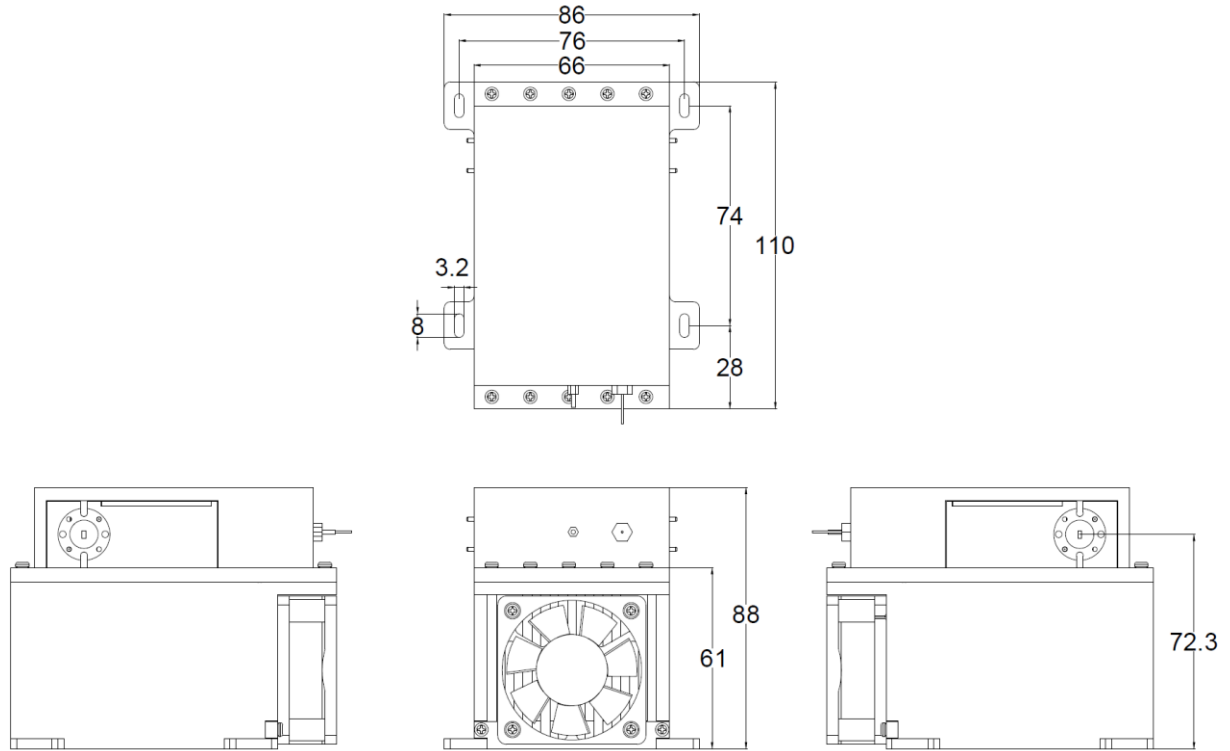
90-98GHz High Power Amplifier



Pout vs Pin



Dimension with Heatsink: (unit mm)



Outline with heatsink and Fan in default

Customer can remove the heatsink and Fan if using their own heatsink system.

