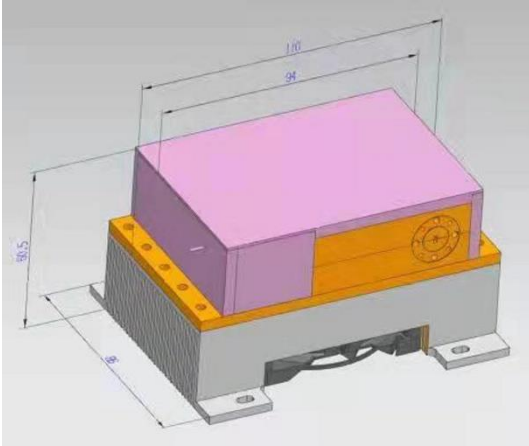


90-98GHz High Power Amplifier



Product Overview

AT-PA-9098-3032GT is GaN Based high power amplifier with +32dBm output power in the frequency of 90-98GHz. The DC power requirement is +20V/1.9A. 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:+32dBm
- ✓ Small signal gain: 30dB
- ✓ 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	28dB	30dB	
Psat	+31dBm	+32dBm	
Vdd		+20V	+22V
Id(NO RF)		1.1A	
Id(Psat)		1.9A	2.4A
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





AT-PA-9098-3032GT

90-98GHz High Power Amplifier

Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	TBD
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+24V
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 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.

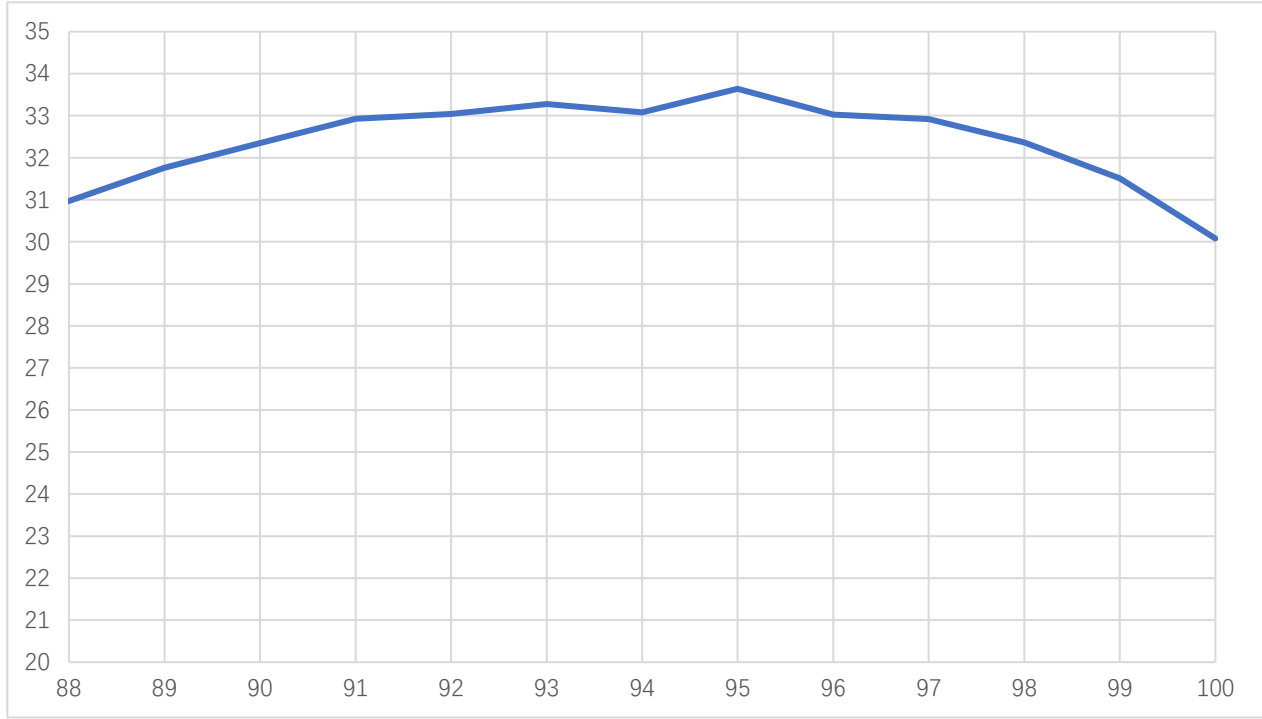




AT-PA-9098-3032GT

90-98GHz High Power Amplifier

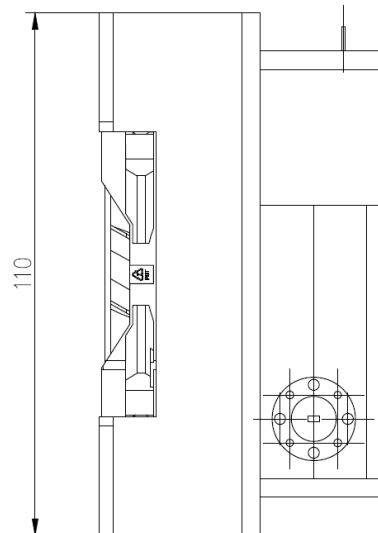
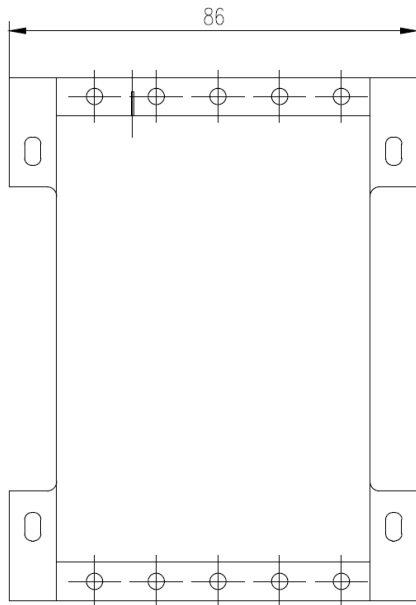
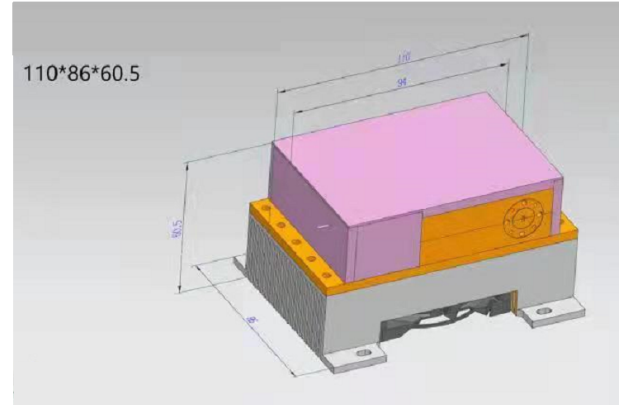
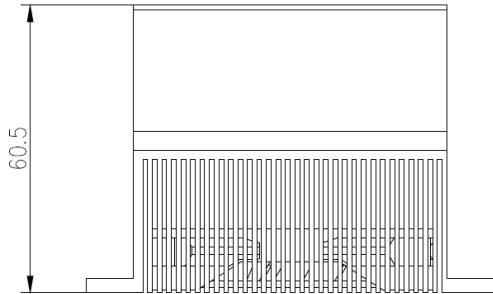
Test Data



Pout vs Frequency



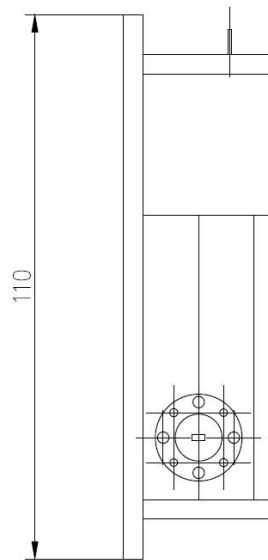
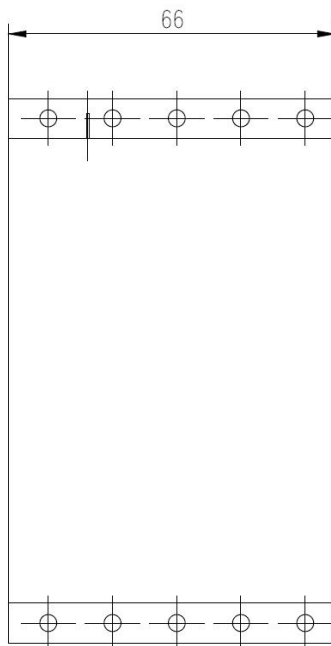
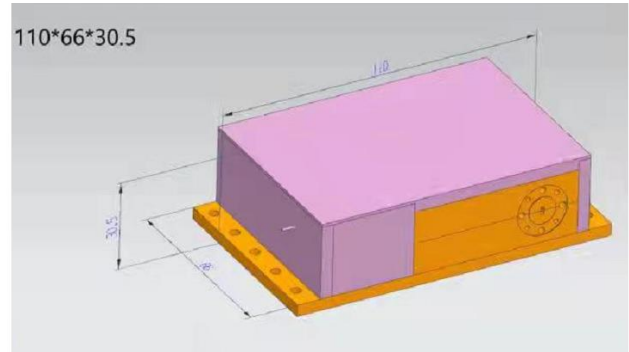
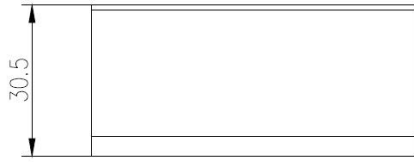
Dimension with Heatsink and Fan: (unit mm)



Outline wit heatsink and Fan in default
Customer can remove the heatsink and Fan if using their own heatsink system.



Dimension without Heatsink and Fan: (unit mm)



Outline without heatsink
Heatsink required during operation.

