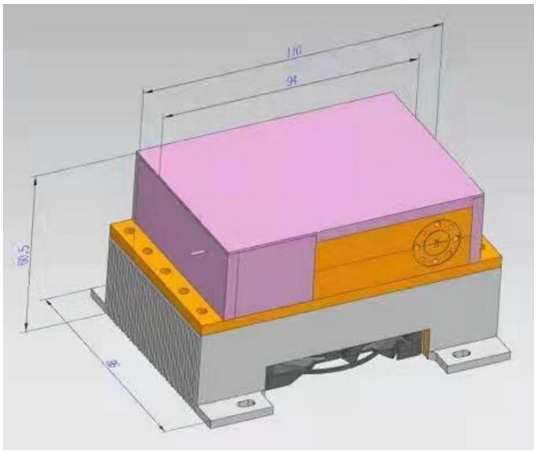
388-98GHz High Power Amplifier

2021-11-17



Product Overview

AT-PA-8898-3533GT is GaN Based high power amplifier with +33dBm output power in the frequency of 88-98GHz. The DC power requirement is +19V/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: 88-98GHz
- ✓ 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		88-98GHz	
Small Signal Gain	30dB	35dB	
Psat Gain		25dB	
Psat	+31dBm +30dBm	88-98GHz: +33dBm 98-100GHz: +31dBm	
Vdd		+19V	+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-8898-3533GT

88-98GHz 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 +88C, heat sink and fan are required, or the amplifier may be damaged.

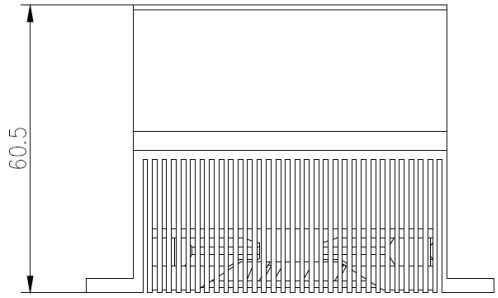
Shanghai AT Microwave Limited

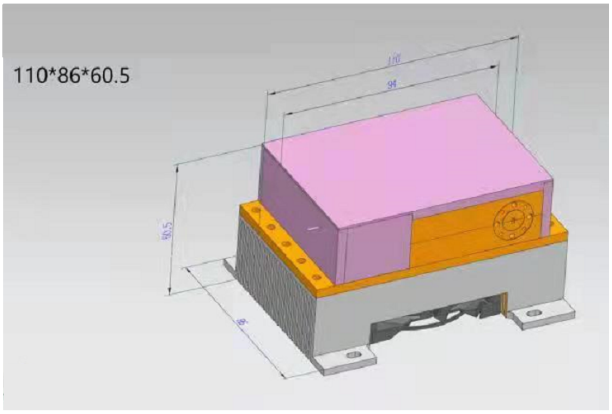
Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

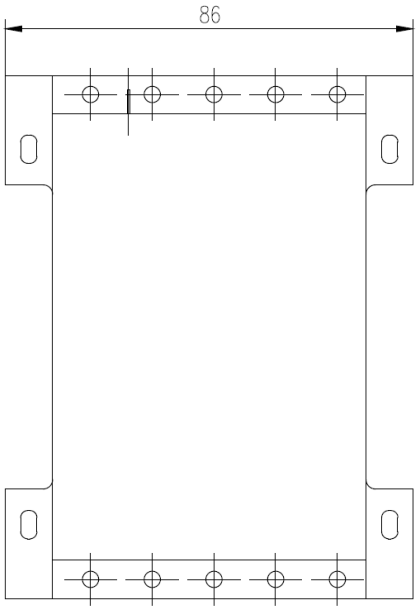
AT-PA-8898-3533GT

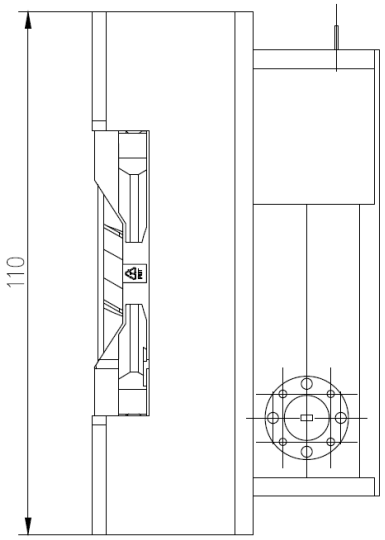
88-98GHz High Power Amplifier

Dimension: (unit mm)









Outline wit heatsink and Fan in default

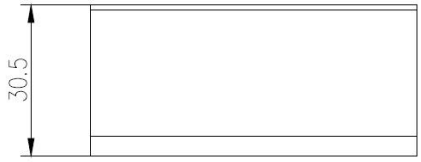
Customer can remove the heatsink and Fan if using their own heatsink system.

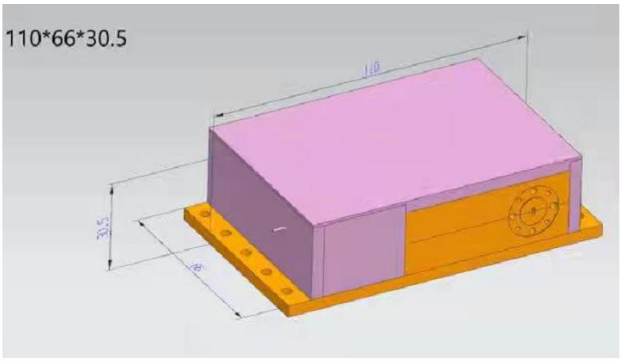
Shanghai AT Microwave Limited

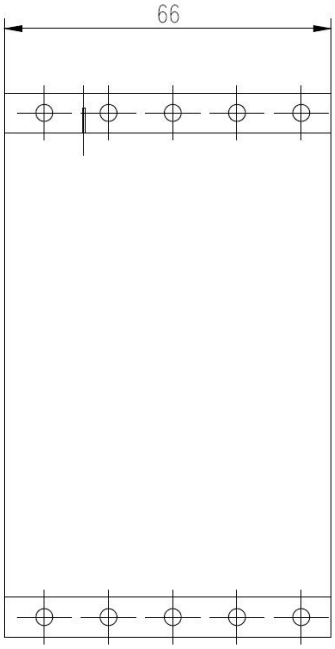
Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

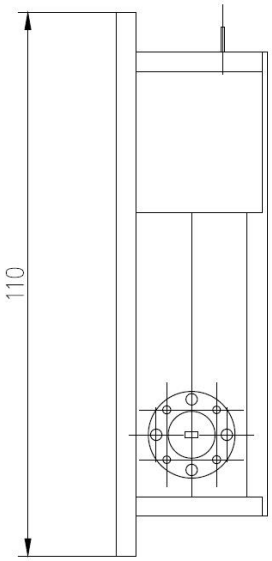
AT-PA-8898-3533GT

88-98GHz High Power Amplifier









Outline without heatsink

Heatsink requited during operation.

Shanghai AT Microwave Limited

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com