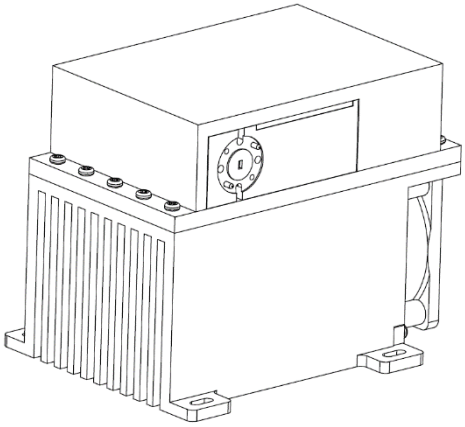
57-66GHz High Power Amplifier
Gain=37dB, Pout=+35dBm

2022-3-15



Product Overview

AT-PA-5766-3735GN is GaN Based high power amplifier with +35dBm output power in the frequency of 57-66GHz. The DC power requirement is +20V/2.9A. The module is with standard WR-15 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: 57-66GHz
- ✓ Psat:+35dBm
- ✓ Small signal gain: 37dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		57-66GHz	
Small Signal Gain	35dB	37dB	
Psat	+34dBm	+35dBm	
Vdd		+20V	+22V
Id(NO RF)		1.9A	
Id(Psat)		2.9A	3.2A
Input Return Loss		-7dB	
Output Return Loss		NO TEST	
Spec Temp		25C	

Shanghai AT Microwave Limited
Tel:021-6229 1232 Email:sales@atmicrowave.com www.atmicrowave.com

Mechanical Information

Item	Description
Input Port	WR-15
Output Port	WR-15
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	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

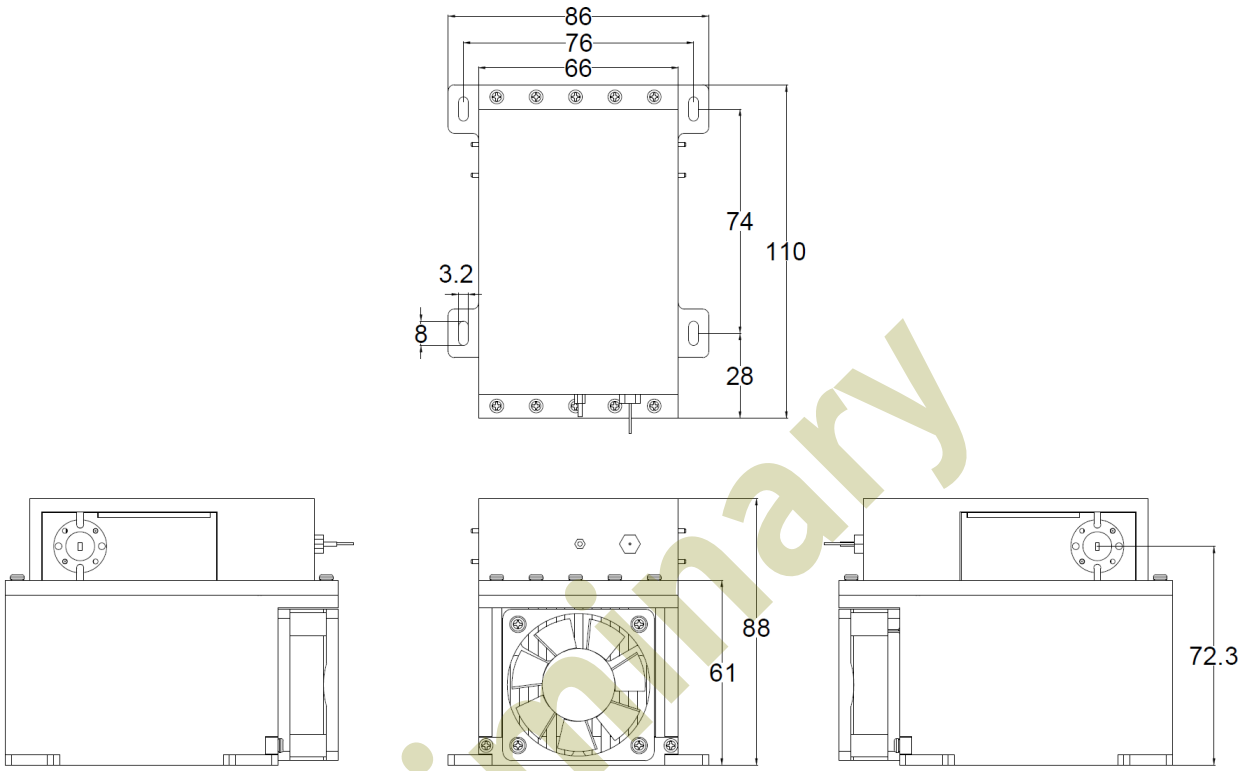
Notes:

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 +57C, heat sink and fan are required, or the amplifier may be damaged.

Dimension with Heatsink and Fan In Default: (unit mm)



Outline wit heatsink and Fan in default

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