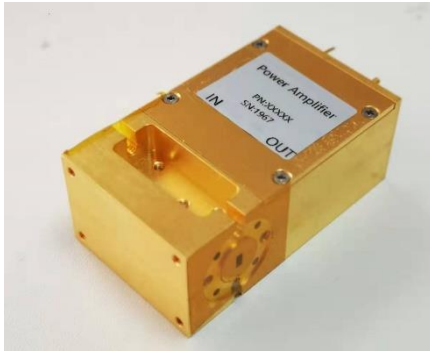


### W Band Broadband Power Amplifier



#### Product Overview

AT-PA-75110-1515 is power amplifier with +15dBm output power in the frequency of 75-110GHz. The DC power requirement is +9V/400mA. The module is with a standard WR-10 waveguide.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Advantages

- ✓ Frequency: 75-110GHz
- ✓ Psat:+15dBm
- ✓ Small signal gain: 15dB
- ✓ Single Power Supply

#### Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Key Features

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Small Signal Gain		15dB	
Drain Supply		+9V	+12V
Quiescent Current/A (NO RF)		0.4A	
Psat Current/A		0.5A	
Psat		+15Bm	
Gain at Psat		8dB	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





# AT-PA-75110-1515

75-110GHz Power Amplifier,  $P_{sat}=+15dBm$

## Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	221g
Size:	57.5x33x22.4mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+12V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Caution:

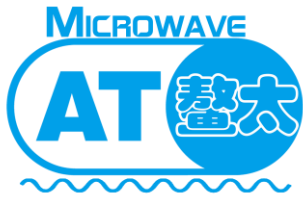
Please pay attention to the case temperature. If case temperature exceeds higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

### 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.

Please contact AT Microwave team to make sure you have the most current data.

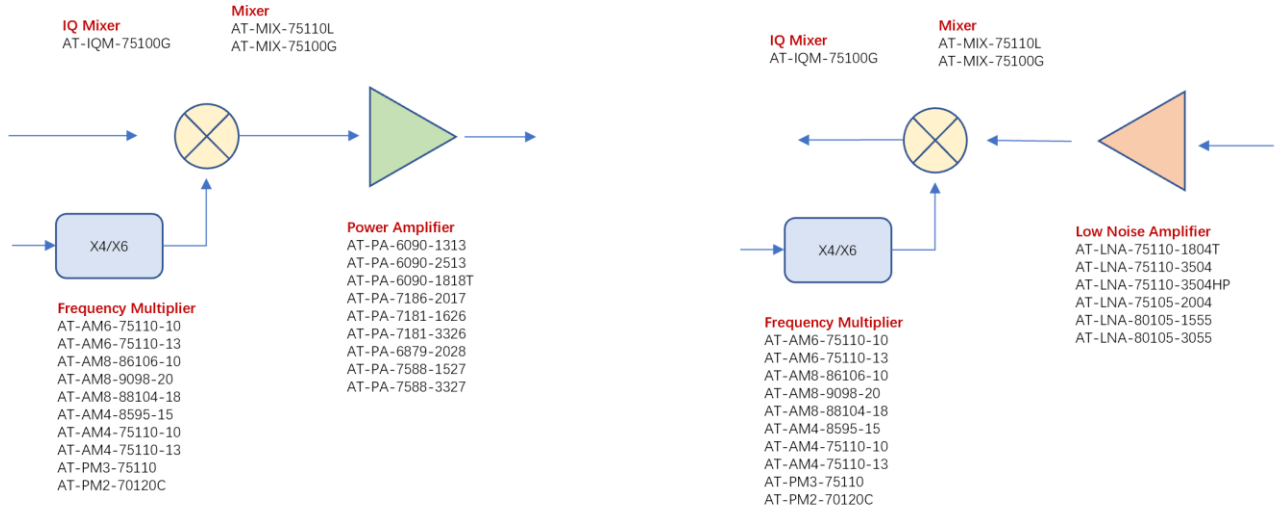




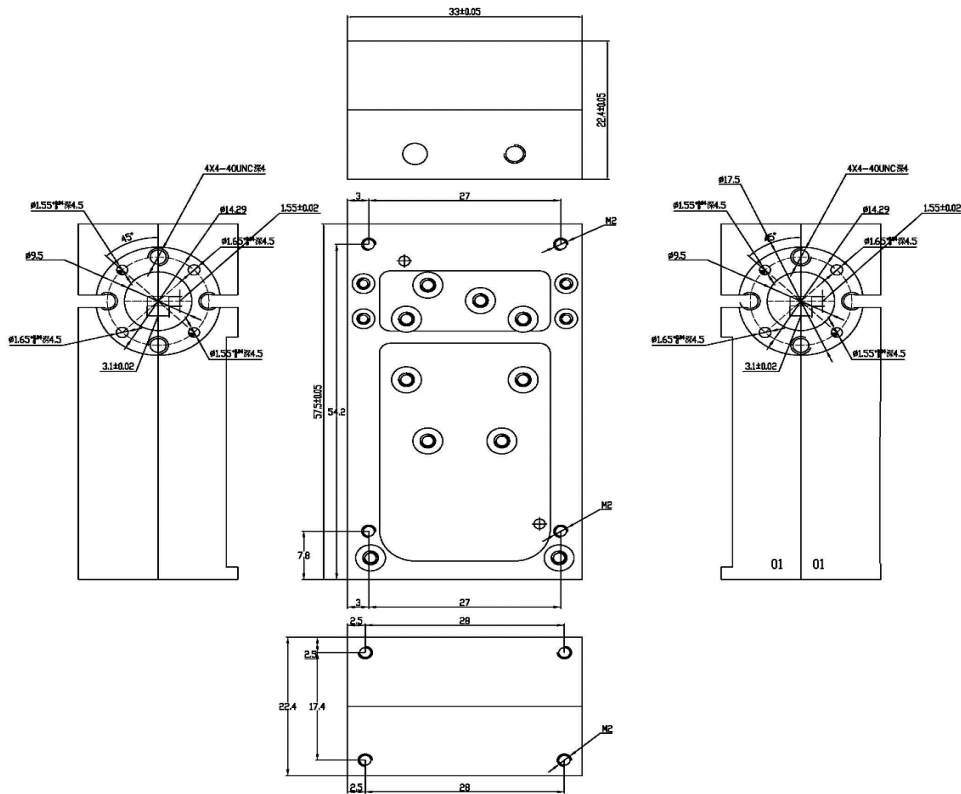
# AT-PA-75110-1515

75-110GHz Power Amplifier, Psat=+15dBm

## W BAND 75-110GHZ



### Dimension: (unit in mm)



Heatsink Required if case Temp higher than 50C

