



# AT-PA-85110-1523GT-10

85-110GHz Power Amplifier, Psat=+23dBm

## W Band Power Amplifier



### Product Overview

AT-PA-85110-1523GT is power amplifier with +23dBm output power in the frequency of 85-110GHz. The DC power requirement is +17V/0.26A. 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: 85-110GHz
- ✓ Psat:+23 dBm
- ✓ Small signal gain: 15dB
- ✓ Single Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		85-110GHz	
Gain	12dB	15dB	
Drain Supply		+17V	+22V
Quiescent Current/A (NO RF)		0.18A	
PSAT Current/A		0.26A	
P1Db		+16dBm	
Psat	+22dBm	+23dBm	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Temp Spec		25C	

Note: Heatsink and fan are required.





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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)	221g
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

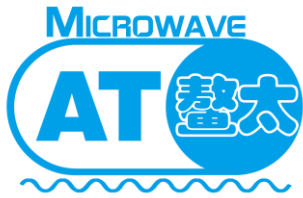
### Caution:

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

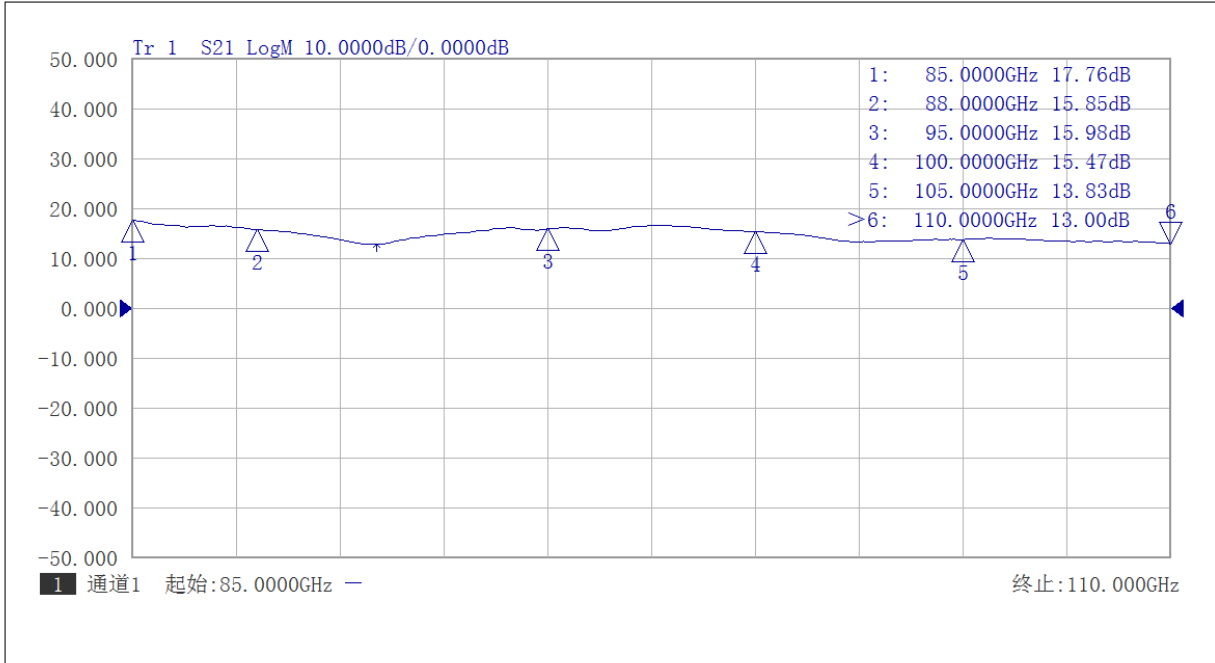




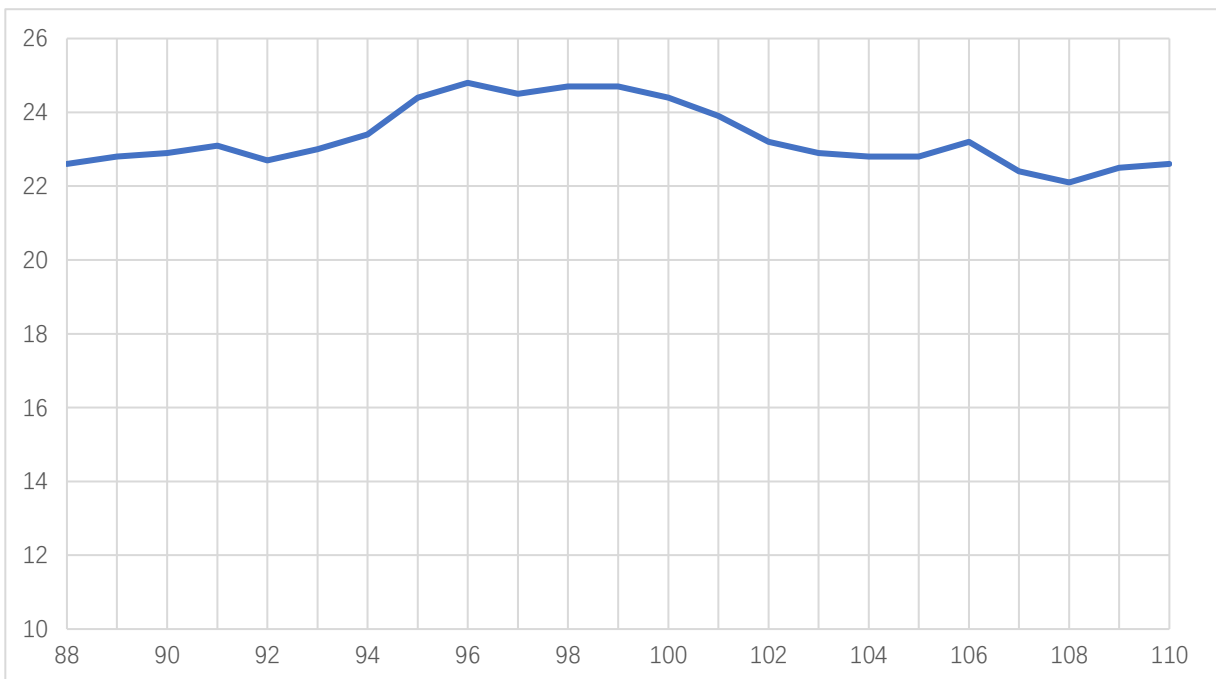
# AT-PA-85110-1523GT-10

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## Test Data:

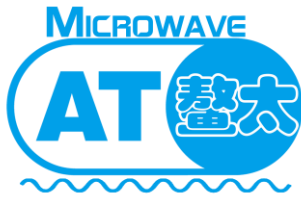


Gain vs Frequency



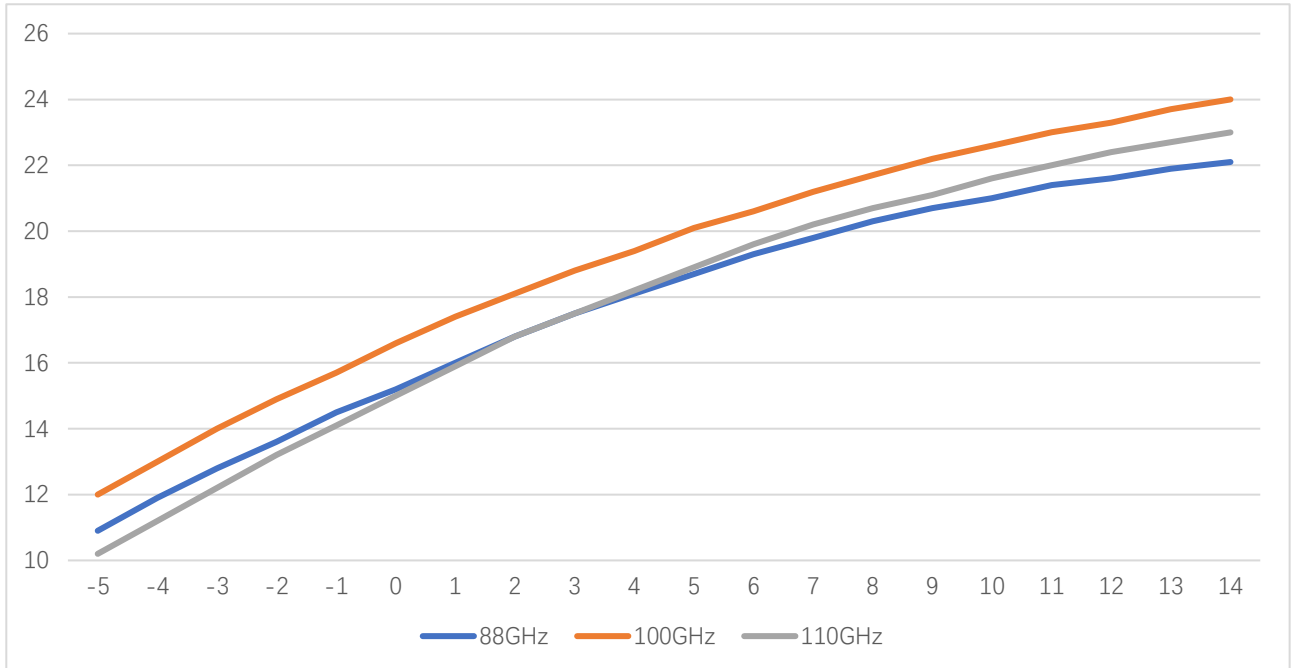
Pout vs Frequency





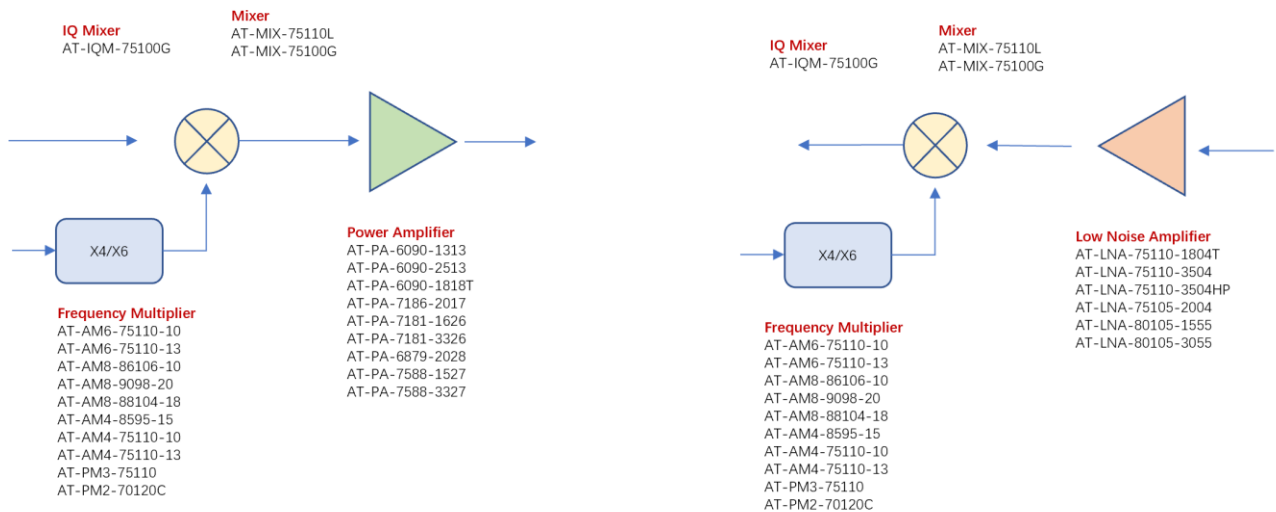
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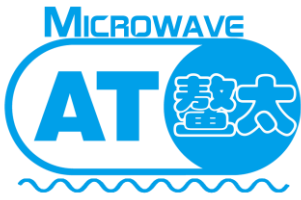
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Pout vs Pin at 85/100/110GHz

## W BAND 75-110GHZ

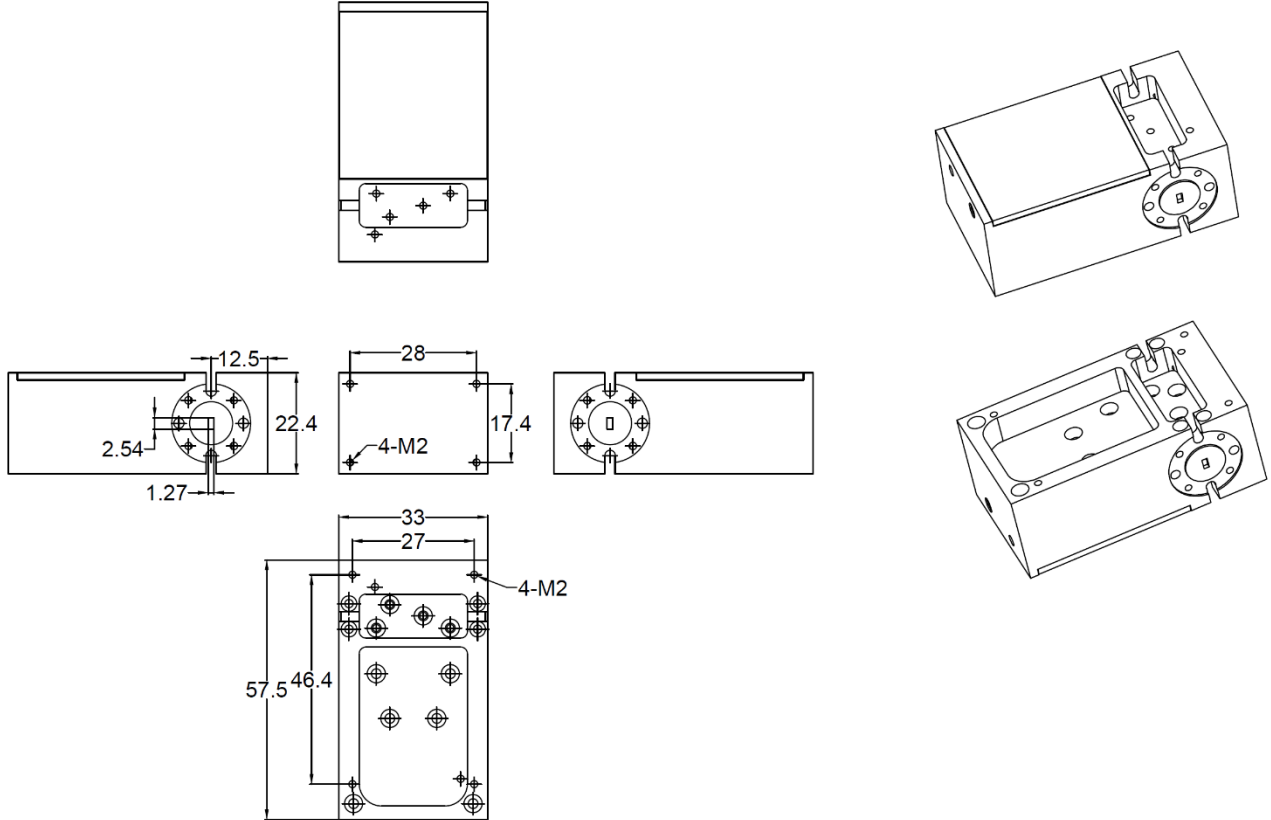




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Dimension:(unit in mm)



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