

## Full E band MPA, Psat=+13dBm



### Product Overview

AT-PA-6090-1313 is a medium power amplifier operating in the 60-90GHz frequency range. The MPA is packaged in a waveguide module using industry standard WR-12.

MMIC technology LNA Chip is used, which ensures reliable and repeatable unit-to-unit result. Higher gain amplifier can be achieved.

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

### Advantages

- ✓ Frequency: 60-90GHz
- ✓ Gain: 13dB
- ✓ Pout: +13dBm
- ✓ Single Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Gain	9dB	13dB	
Noise Figure		6dB	
Output P1dB		+10dBm	
Psat		+13dBm	
Drain Supply		+5V	+8V
Current		170mA	210mA
Input Return Loss		-7dB	
Output Return Loss		-5dB	
Spec Temp		25C	





# AT-PA-6090-1313

## 60-90GHz Medium Power Amplifier

### Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	221g
Size:	See outline

### Absolute Maximum Ratings Table

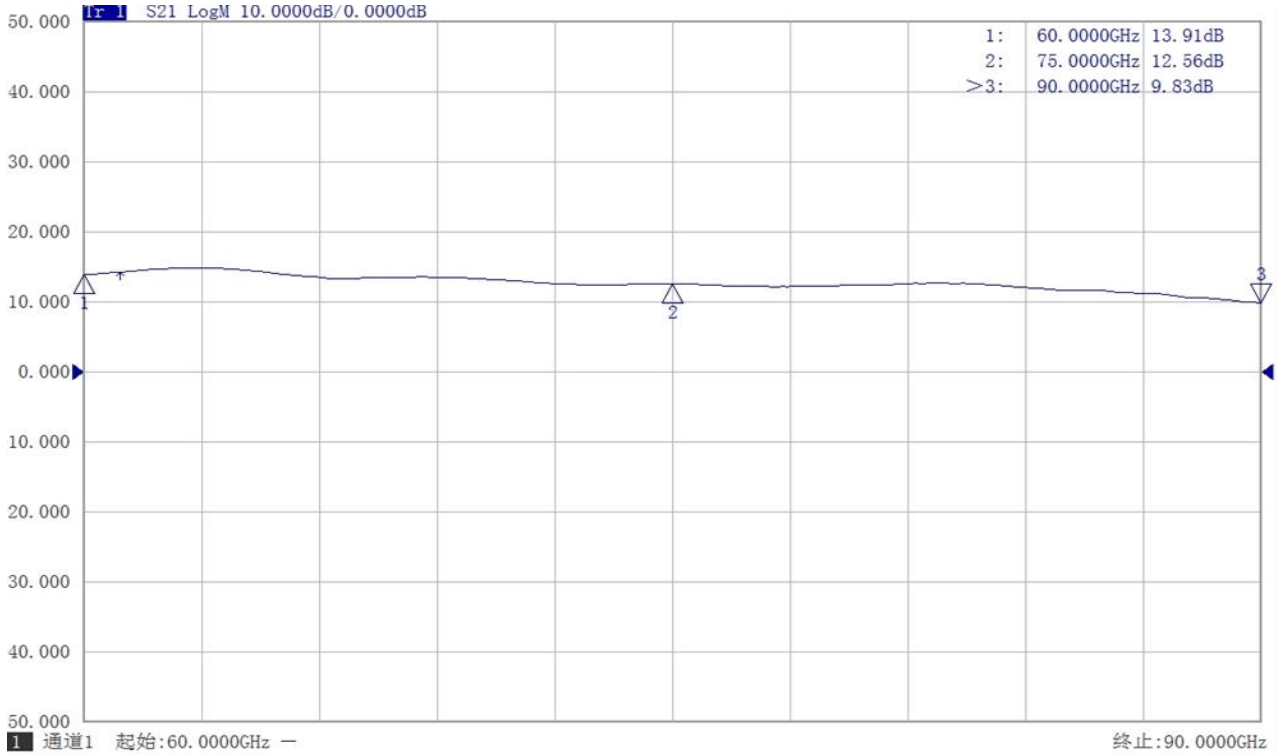
Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Notes:

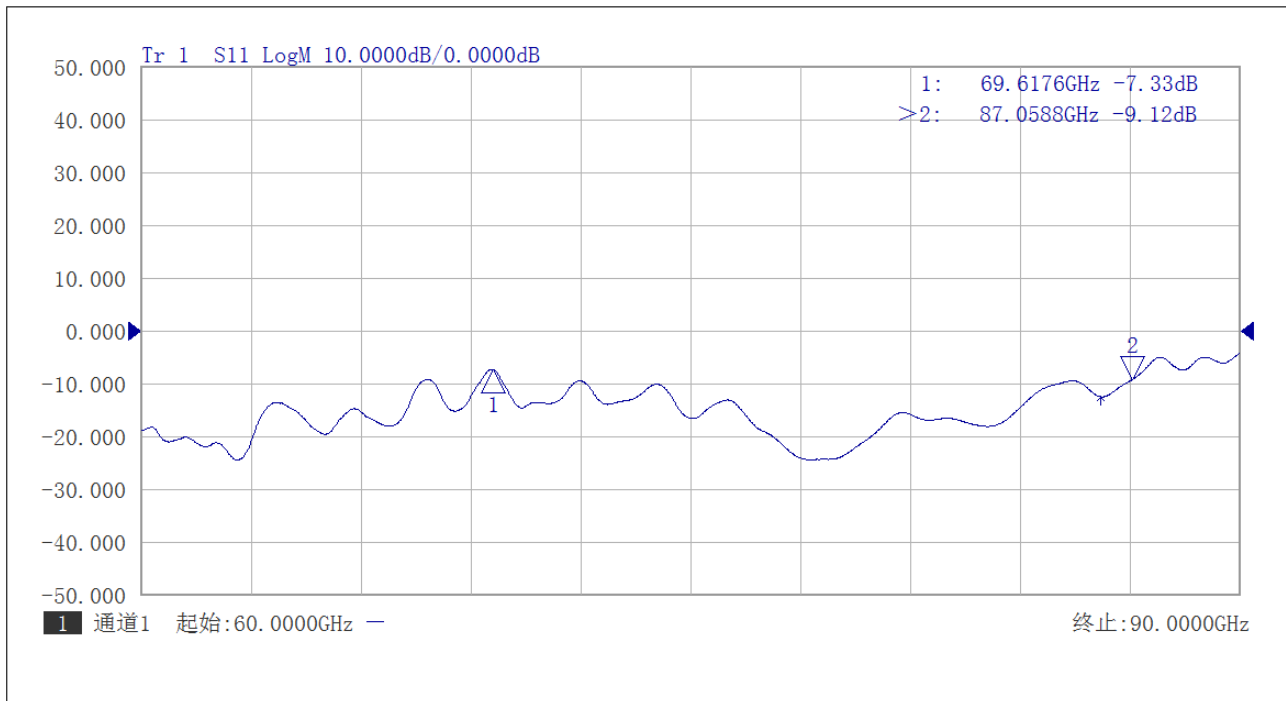
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



## Test Data (25C)



Gain Vs Frequency



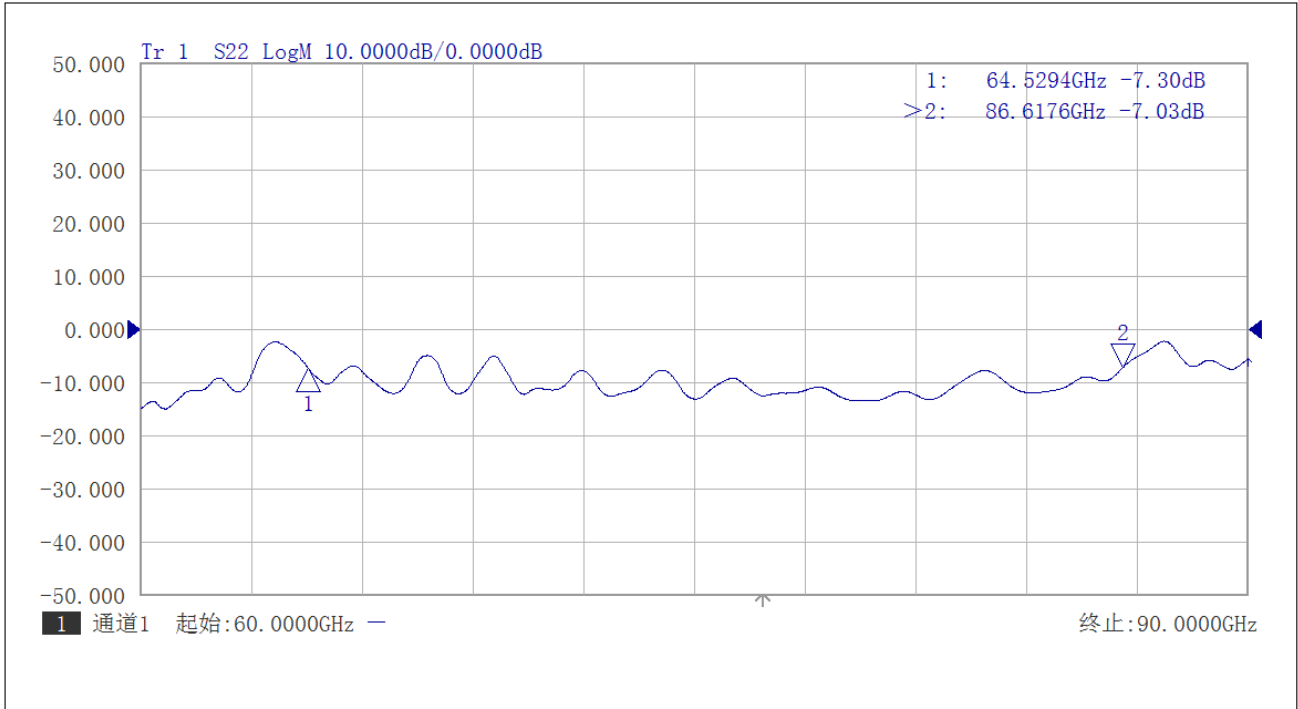
Input Return Loss vs Frequency



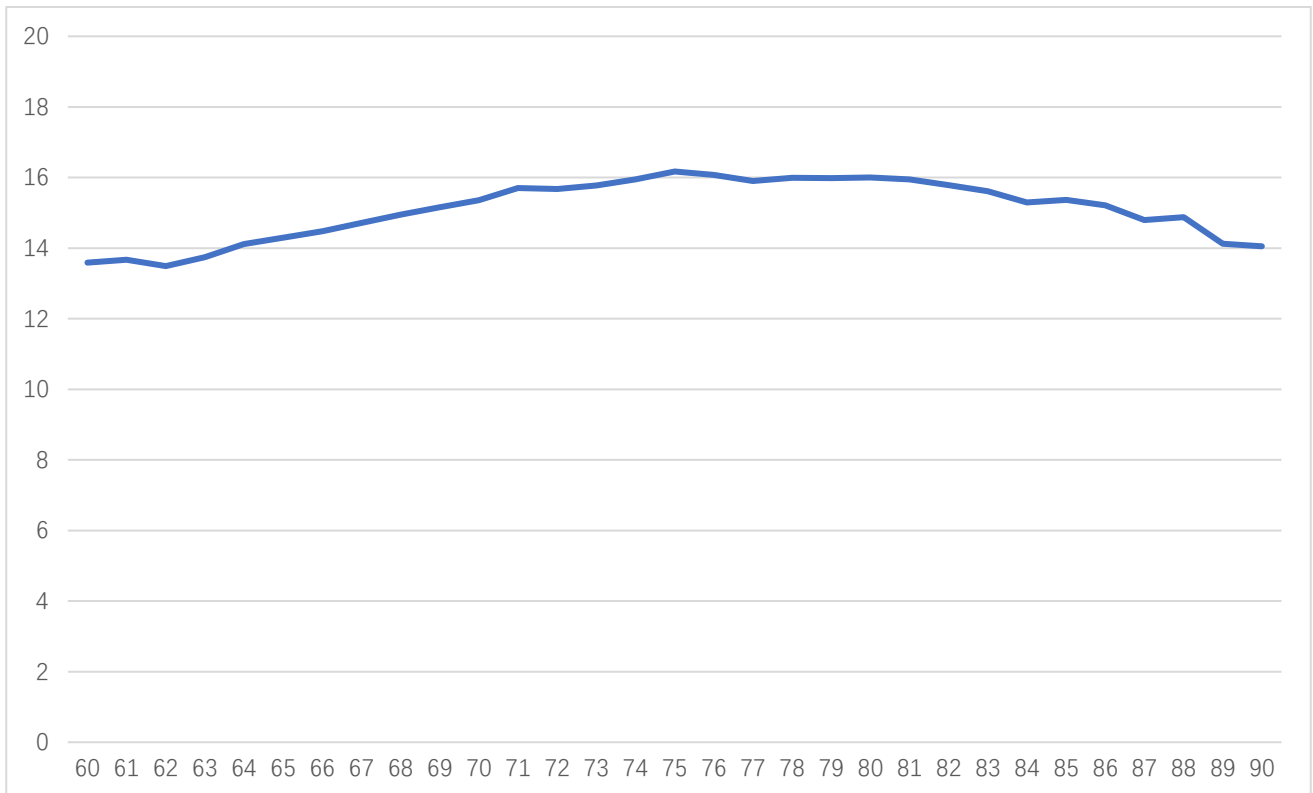


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Output Return Loss vs Frequency



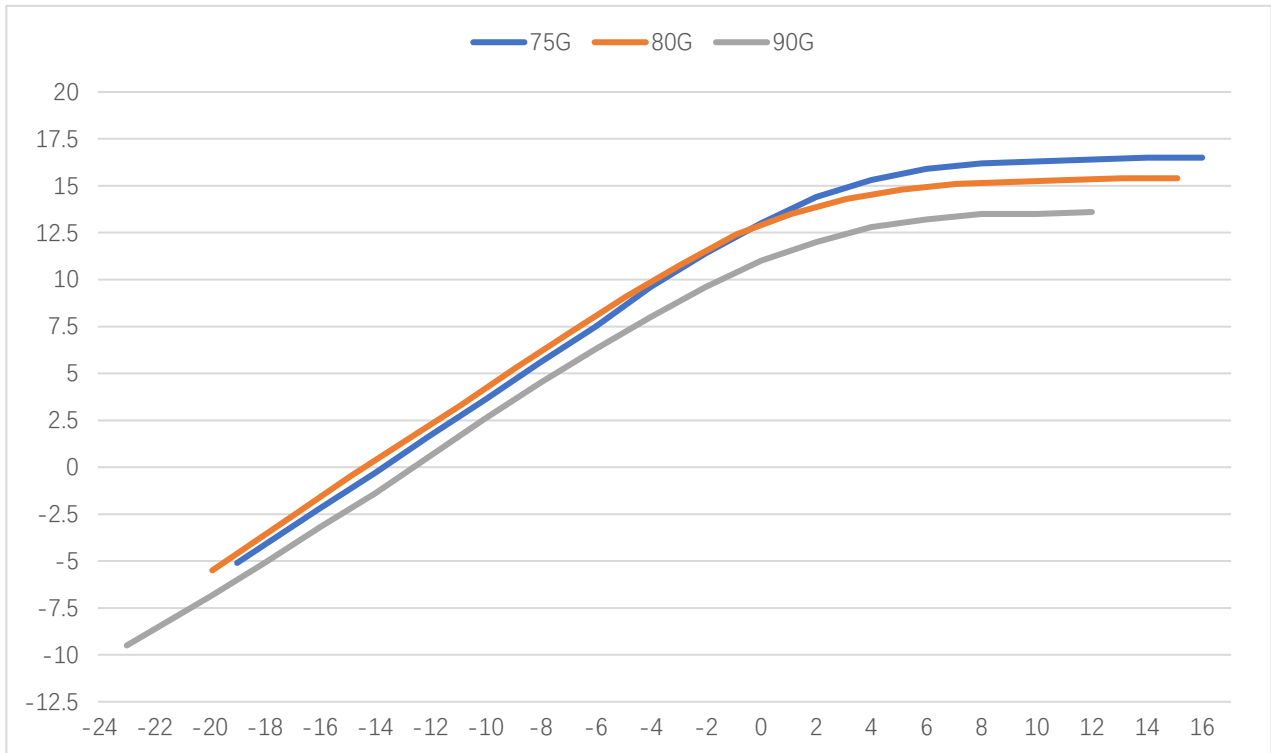
Psat Vs Frequency





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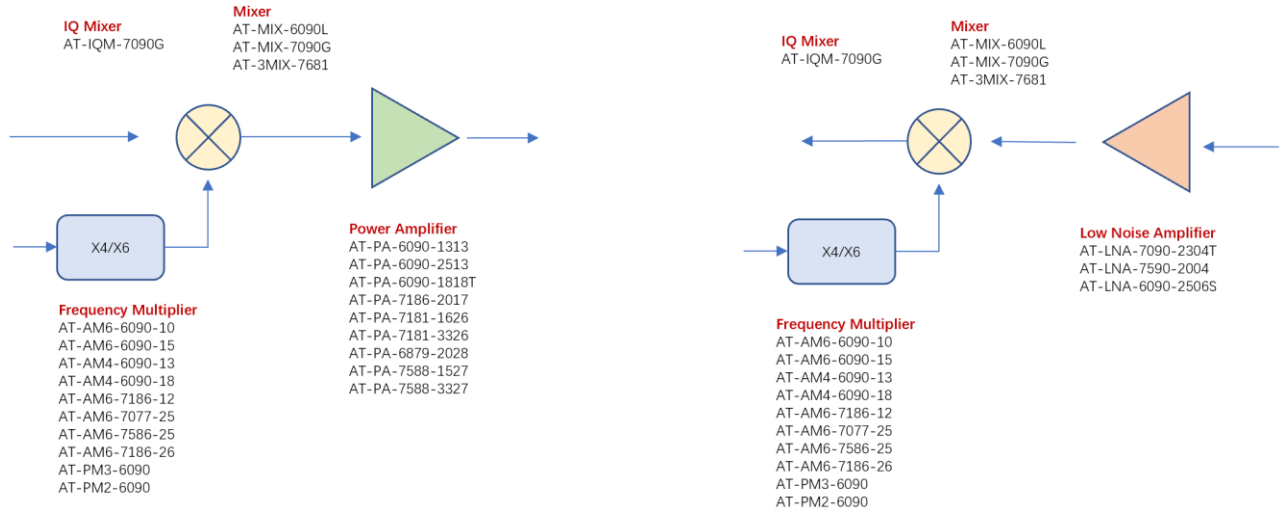
60-90GHz Medium Power Amplifier



Pout vs Pin at 75/80/85GHz



### E Band 60-90GHz



### Dimension: (mm)

