

# Full E Band Power Amplifier



## Product Overview

AT-PA-6090-1818T is a full E Band power amplifier operating in the 60-90GHz frequency range with Pout=+18dBm. The PA is packaged in a waveguide module using industry standard WR-12.

GaAs pHEMT MMIC technology PA Chip is used, which ensures reliable and repeatable unit-to-unit result.

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

## Advantages

- ✓ Frequency: 60-90GHz
- ✓ Gain: 18dB
- ✓ Pout=+18dBm
- ✓ Single Power Supply

## Application

- ✓ E band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

## Key Features

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Gain	15	18dB	
Drain Supply		+5V/180mA	+8V
P1dB		+16dBm	
Psat		+18dBm	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





# AT-PA-6090-1818T

60-90GHz Broadband Power Amplifier

## Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	45X25X20 mm

## Absolute Maximum Ratings Table

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

## Notes:

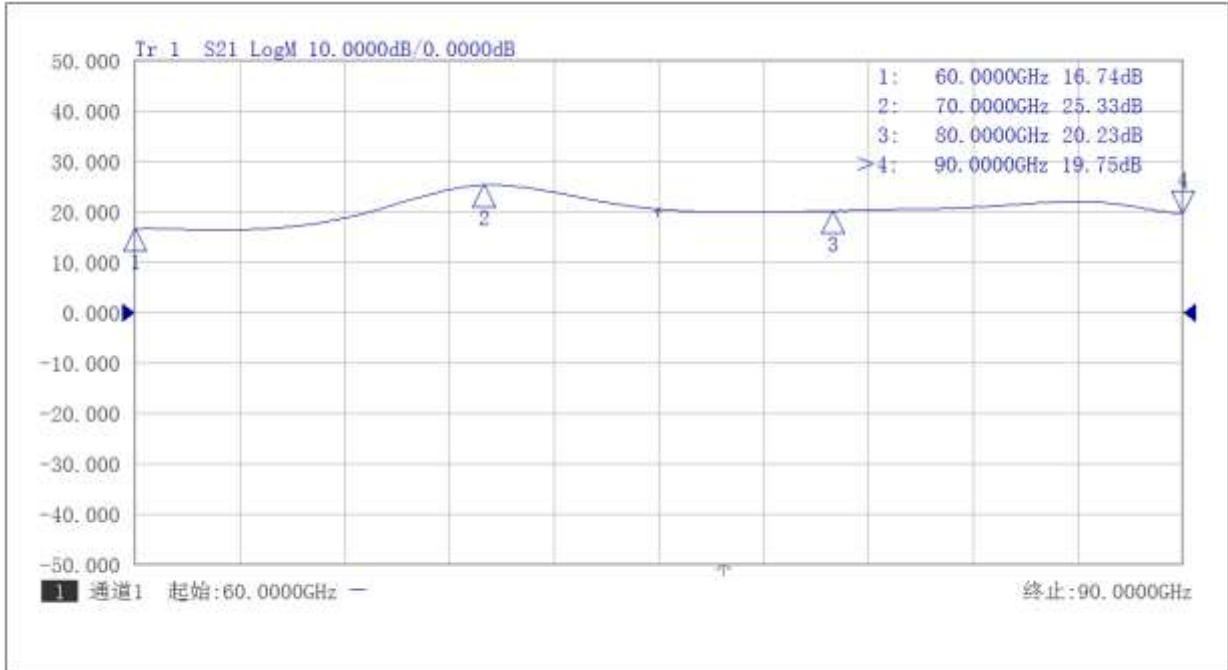
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

## Part Number Selection Guide

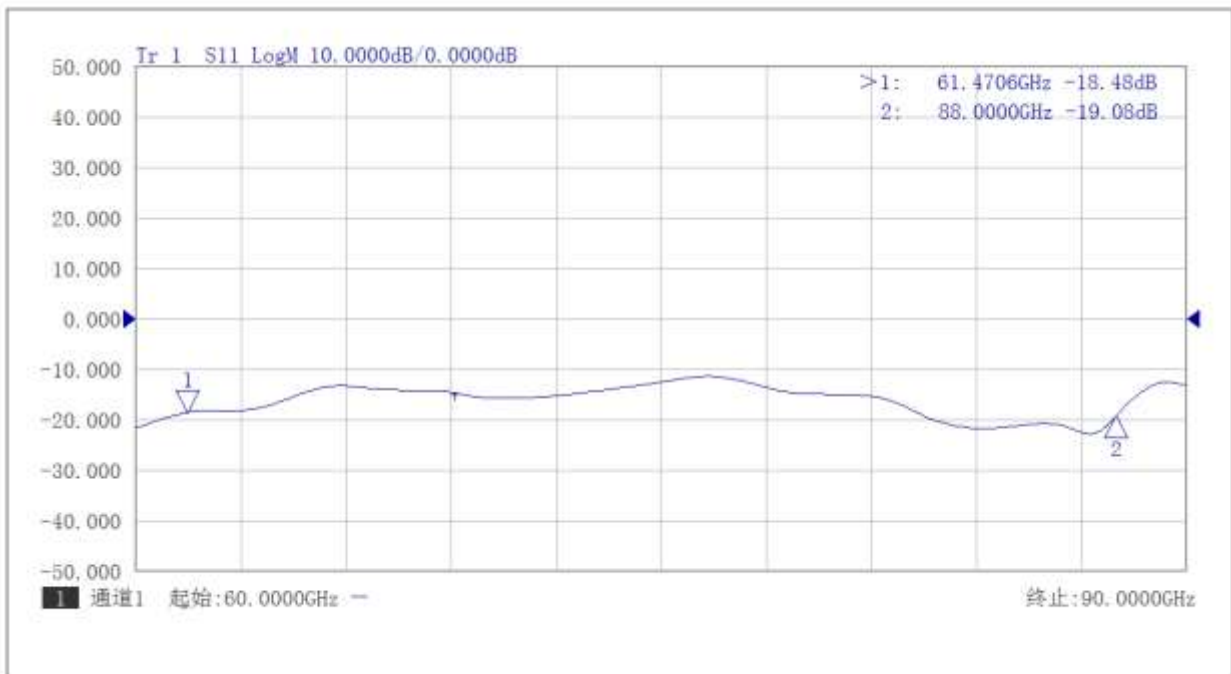
Item	Description
PN	Stand Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter



### Test Data:



Gain vs Frequency

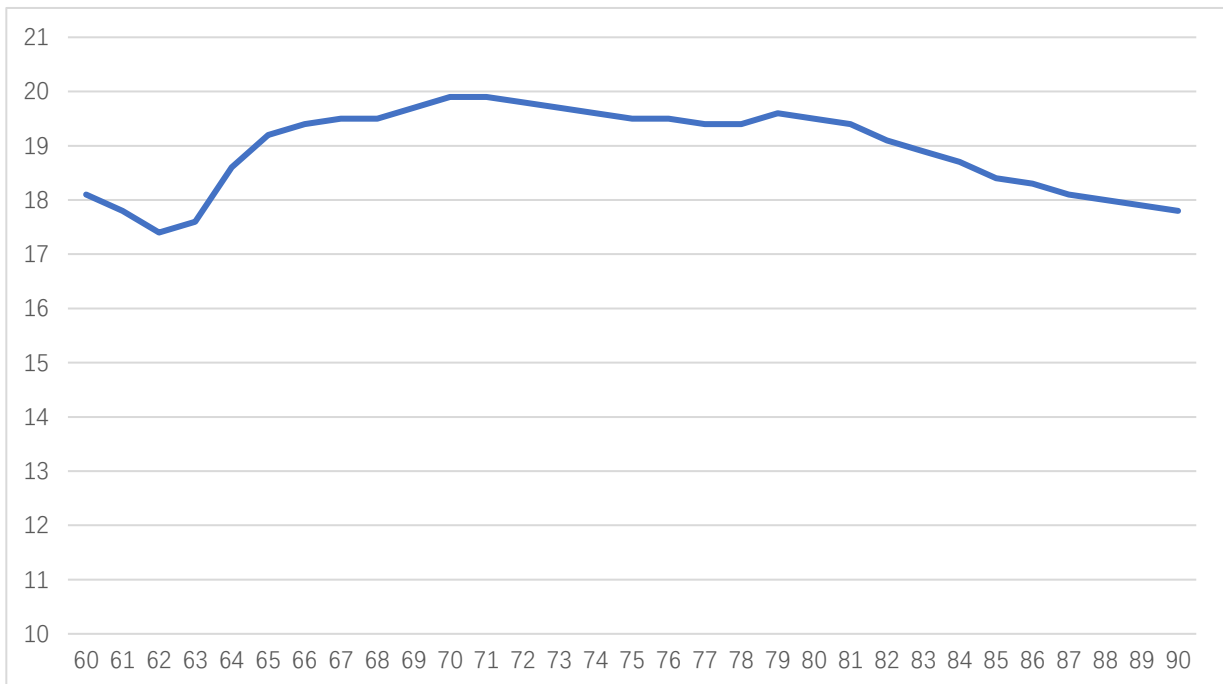


Input Return Loss vs Frequency



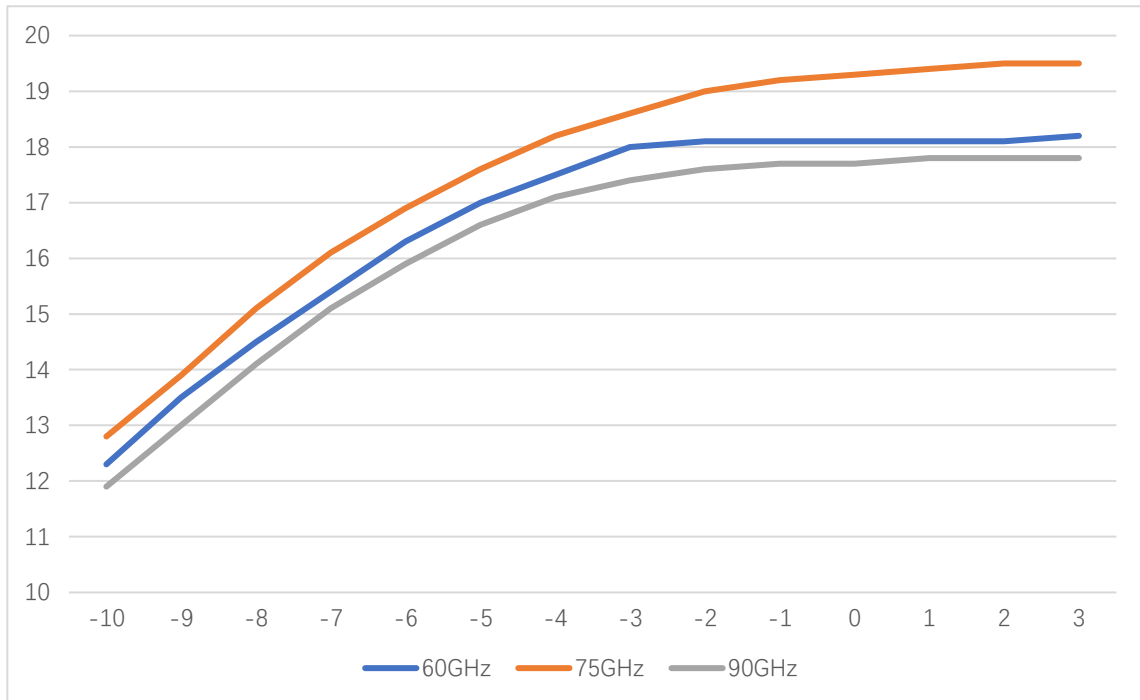


Output Return Loss vs Frequency



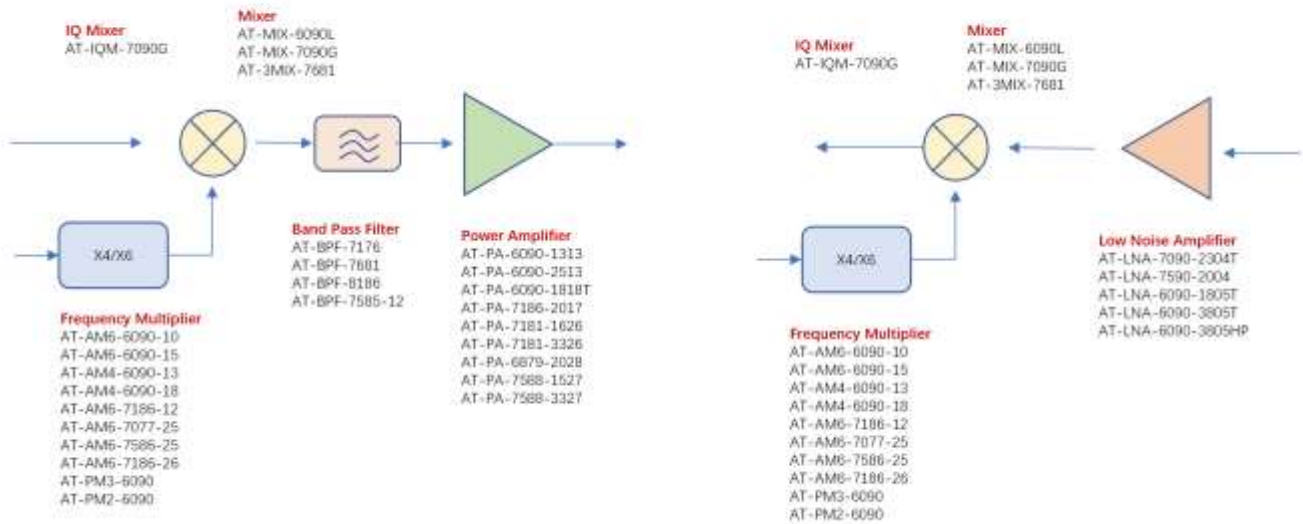
Psat vs Frequency



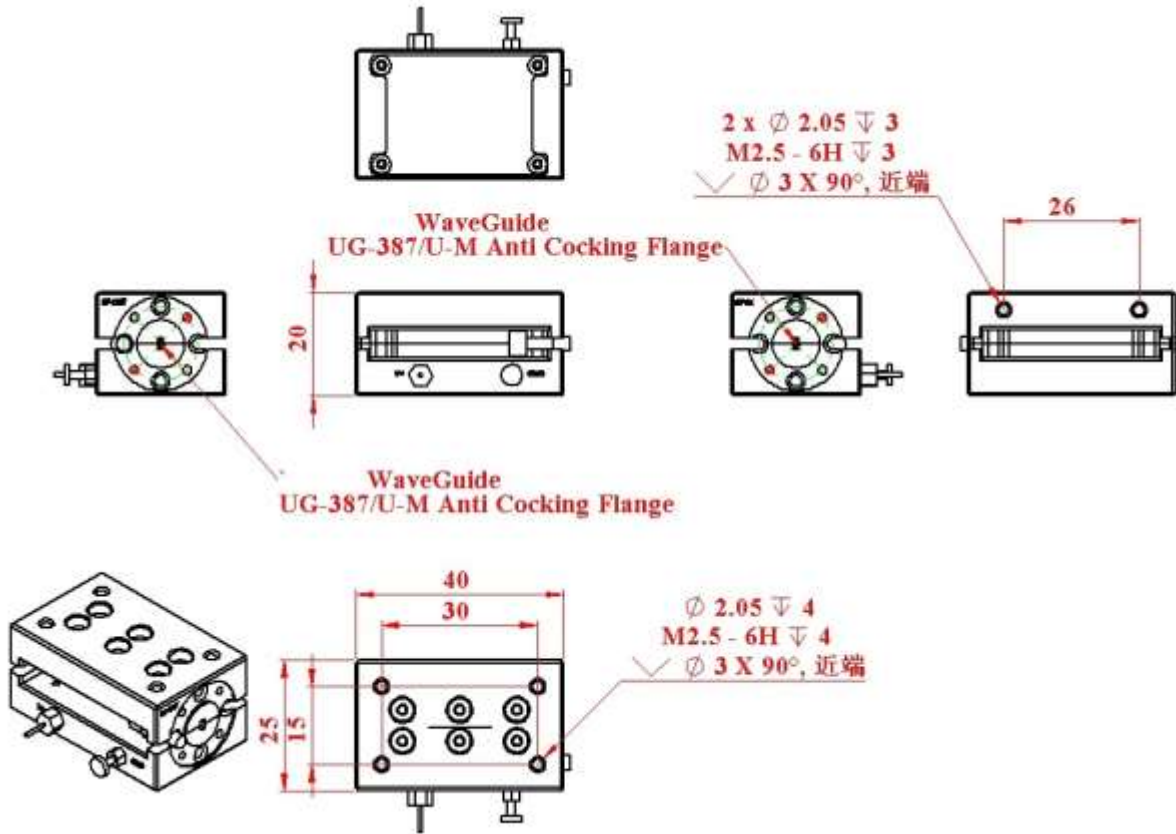


Pout vs Pin at 60/75/90GHz

### E Band 60-90GHz



### Dimension:



### PCN

Date	Description
2022-10-1	Outline updated with anti-cocking flange. All RF Performance un-changed.

