

Full E band MPA, Psat=+13dBm



Product Overview

AT-PA-6090-2513 is a medium power amplifier operating in the 60-90GHz frequency range. The MPA is packaged in a waveguide module using industry standard WR12.

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

Advantages

- ✓ Frequency: 60-90GHz
- ✓ Gain: 25dB
- ✓ 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	25	28dB	
Output P1dB		+10dBm	
Psat		+13dBm	
Noise Figure		6dB	8
Drain Supply		+5V/350mA	+8V
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





AT-PA-6090-2513

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)	270g
Size:	57.5x40.5x22.4 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+0dBm
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.

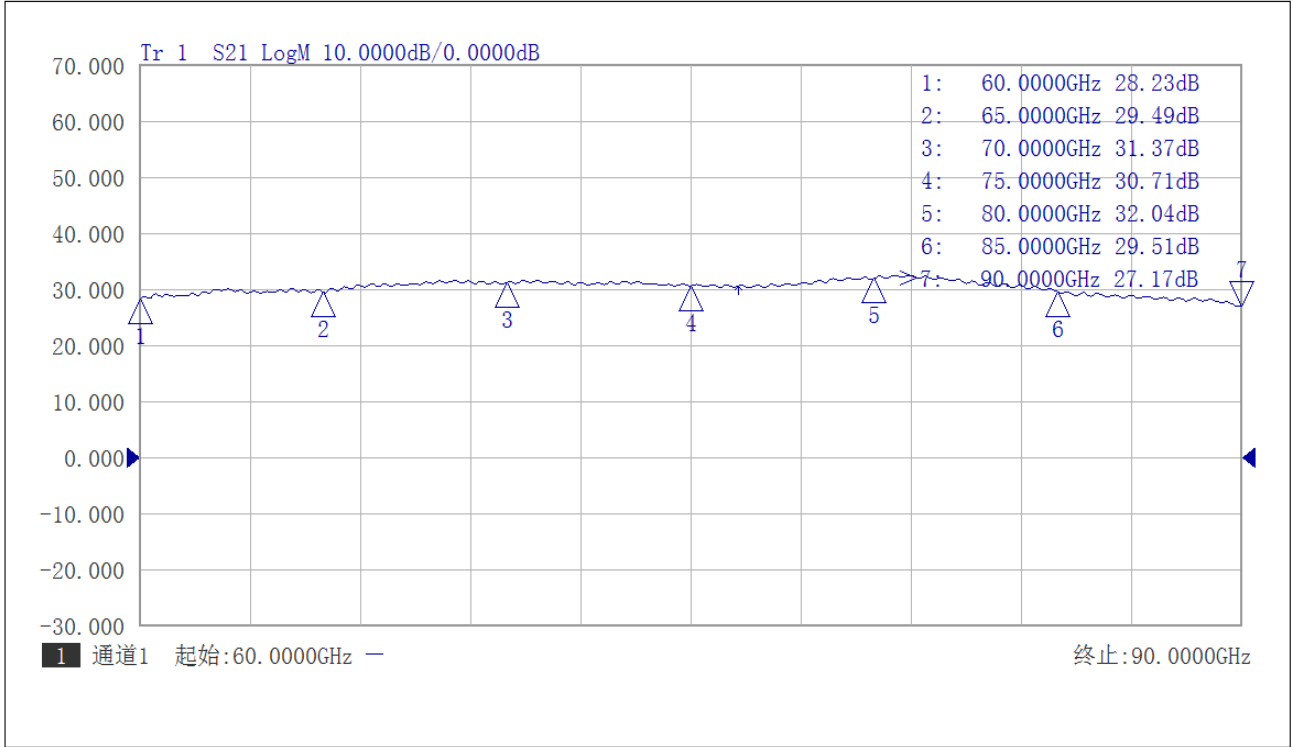




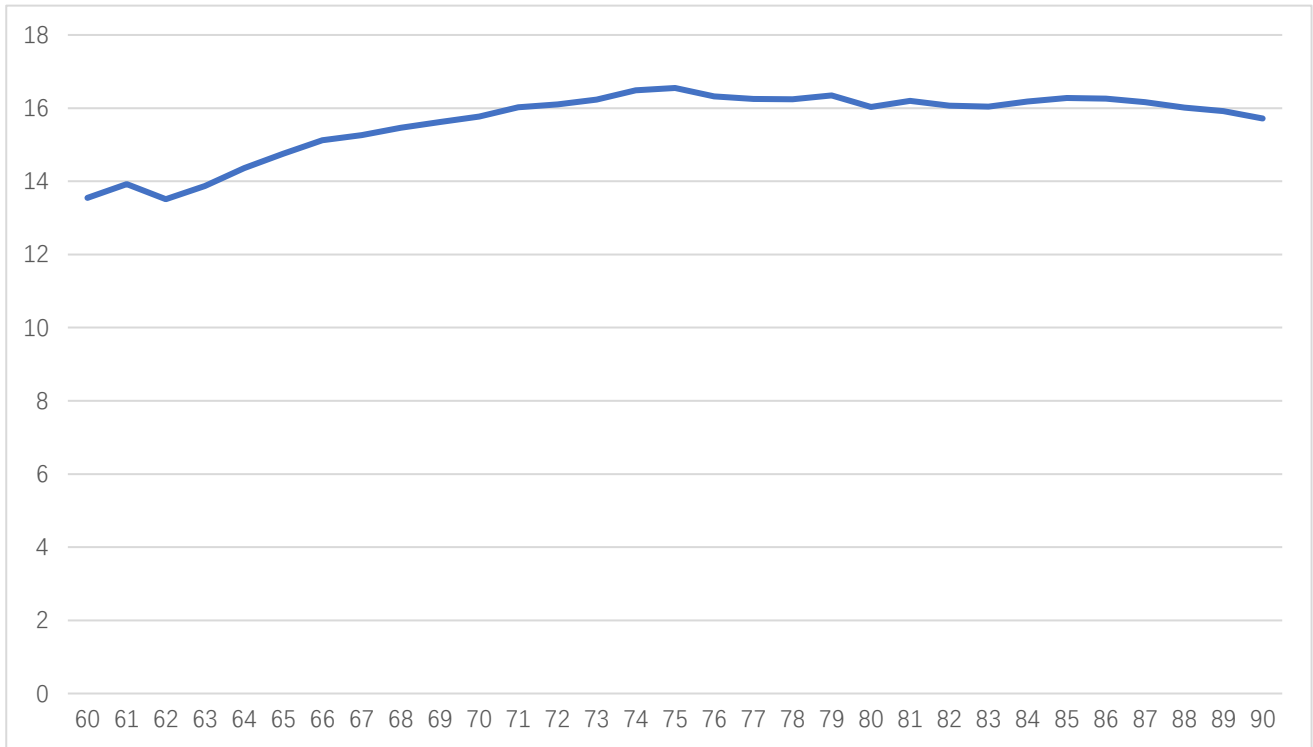
AT-PA-6090-2513

60-90GHz Medium Power Amplifier

Test Data (25C)



Gain Vs Frequency



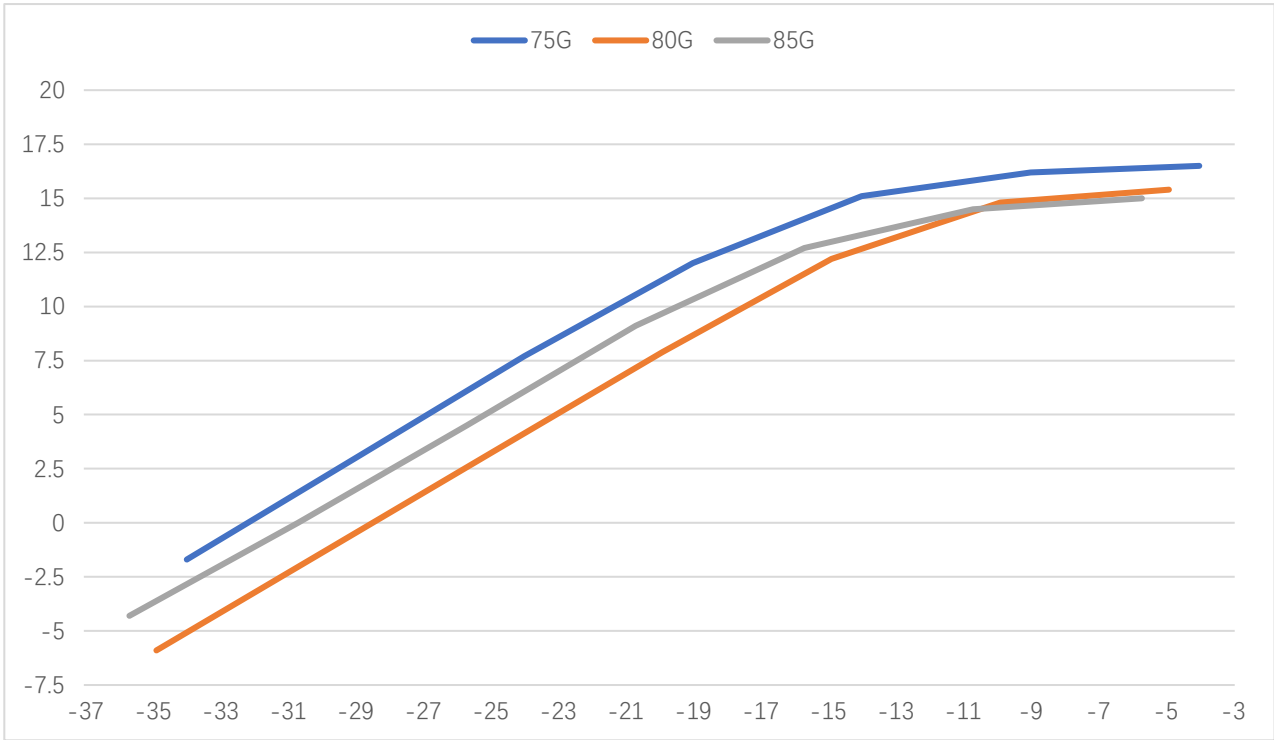
Psat Vs Frequency





AT-PA-6090-2513

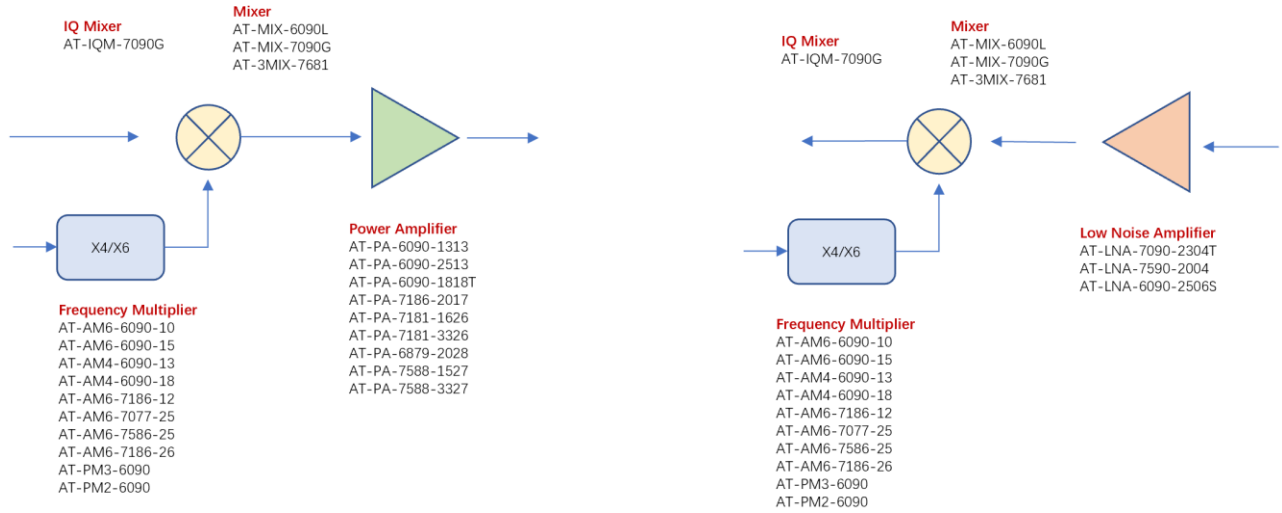
60-90GHz Medium Power Amplifier



Pout vs Pin at 75/80/85GHz



E Band 60-90GHz



Dimension: (mm)

