

## High Power X6, E Band Active Multiplier 60-86GHz, Pout=+27dBm ,WR-12

2023-10-5



### Product Overview

AT-AM6-6086-27GT is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 10to 14.3GHz with a typical output +27dBm from 60-86GHz.

The integrated input and output buffers deliver high output power at a low drive level. The input port is SMA female, and the output is a WR-12 waveguide.

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

### Advantages

- ✓ Frequency: 60-86GHz
- ✓ Pout: +27dBm typical
- ✓ Input: 13-14.3GHz, +3dBm
- ✓ Low Harmonics

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency		10-14.33GHz	
Input Power	+0dBm	+3dBm	+8dBm
Output Frequency		60-86GHz	
Output Power	+25dBm	+27dBm	
X5/X7 Harmonica Suppression		-20dBc	
Drain Voltage		+12V	+15V
Current		0.75A	
Spec Temp		25C	





# AT-AM6-6086-27GT

Active Multiplier x6, 60-86GHz Pout=+27dBm

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	250g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+24V
RF Input Power	+15dBm
Operating Temperature	0 to 50 C
Storage Temperature	-45 to +85C

## 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
AT-AM6-6086-27GT	Stand Module with DC Power Supply
AT-AM6-6086-27GT-LCBT	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, +220V Supply with AC/DC Adapter

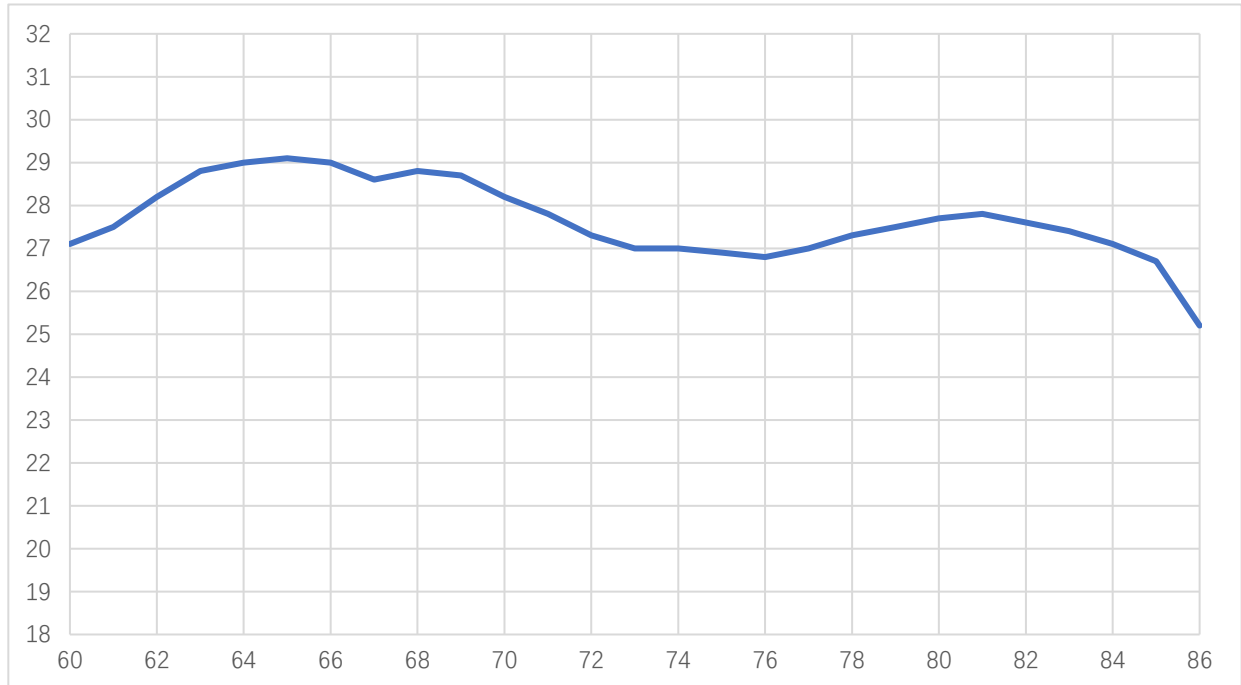




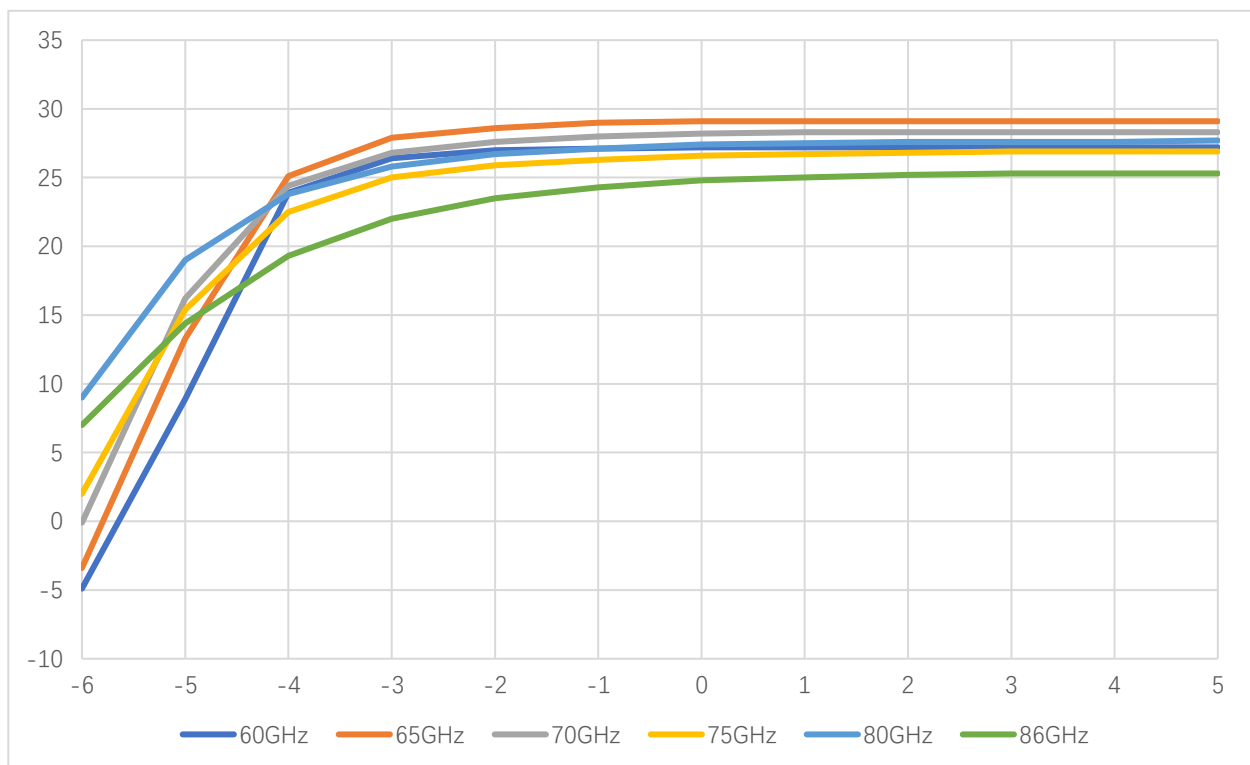
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## Test Data(25C)



Pout vs Frequency



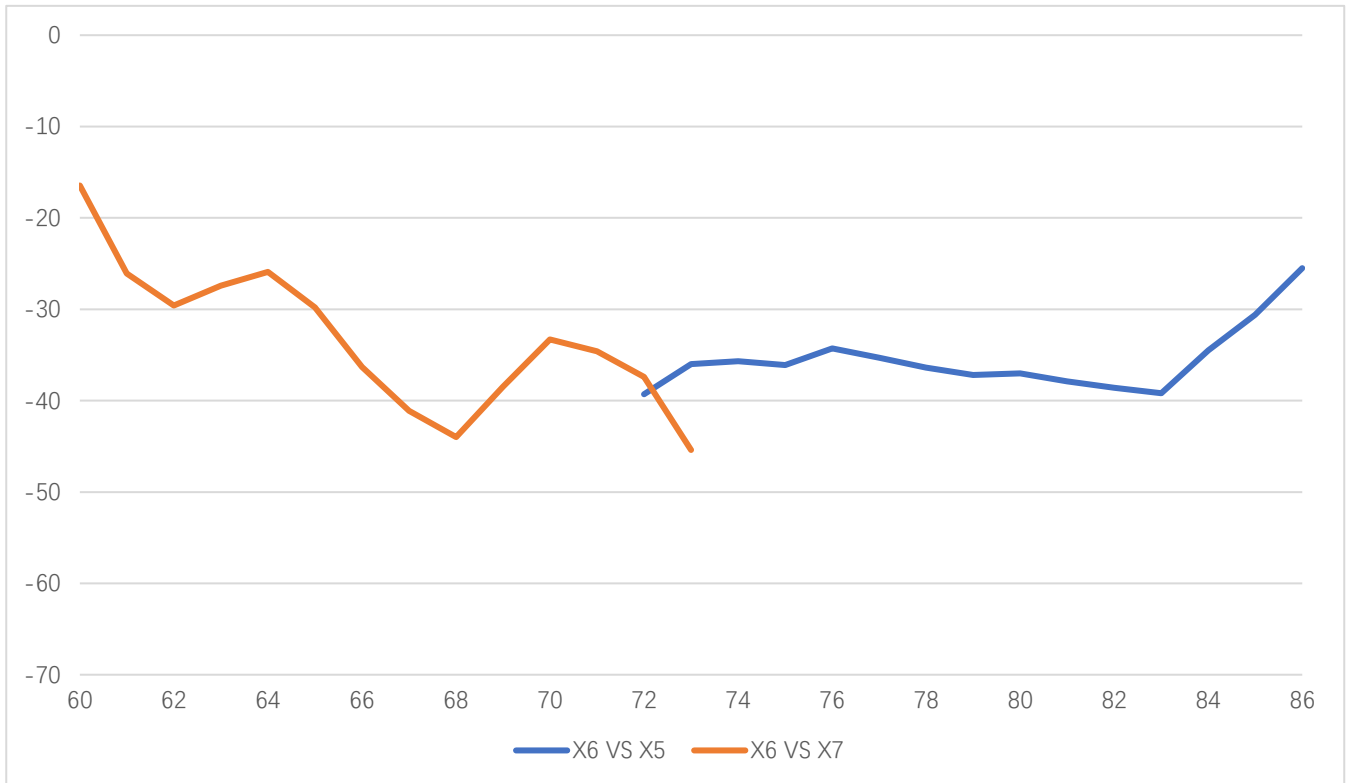
Pout vs Pin





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X5/X7 Harmonics vs X6 Pout



## Dimension(mm)

