

## High Power X6 E Band Active Multiplier

2022-6-1



### Product Overview

AT-AM6-7186-26 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 11.83 to 14.3GHz with a typical output +26dBm from 71-86GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -20dBc. The input port is SMA female, and the output is a WR-12 waveguide.

Other port configurations are available under different requirement.

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

### Advantages

- ✓ Frequency: 71-86GHz
- ✓ Pout: +26dBm typical
- ✓ Input: 11.83-14.3GHz, +5dBm
- ✓ Single Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency		11.83-14.3GHz	
Input Power	+3dBm	+5dBm	+10dBm
Output Frequency		71-86GHz	
Output Power	+24dBm	+26dBm	
X5/X7 Harmonica Suppression		-35dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		1.3A	
Current at Psat		1.8A	2.2A
Spec Temp		25C	





# AT-AM6-7186-26

Active Multiplier x6, 71-86GHz Pout=+26dBm

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	190g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to 50 C
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.

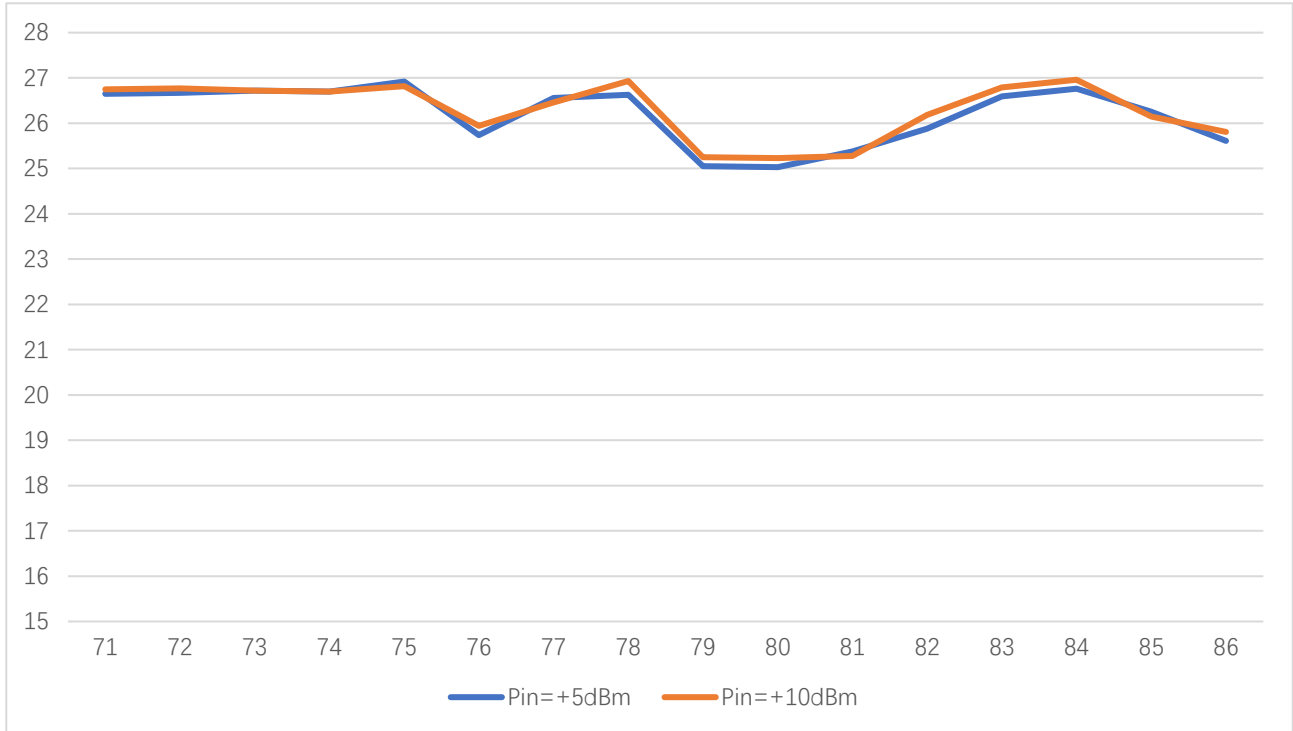




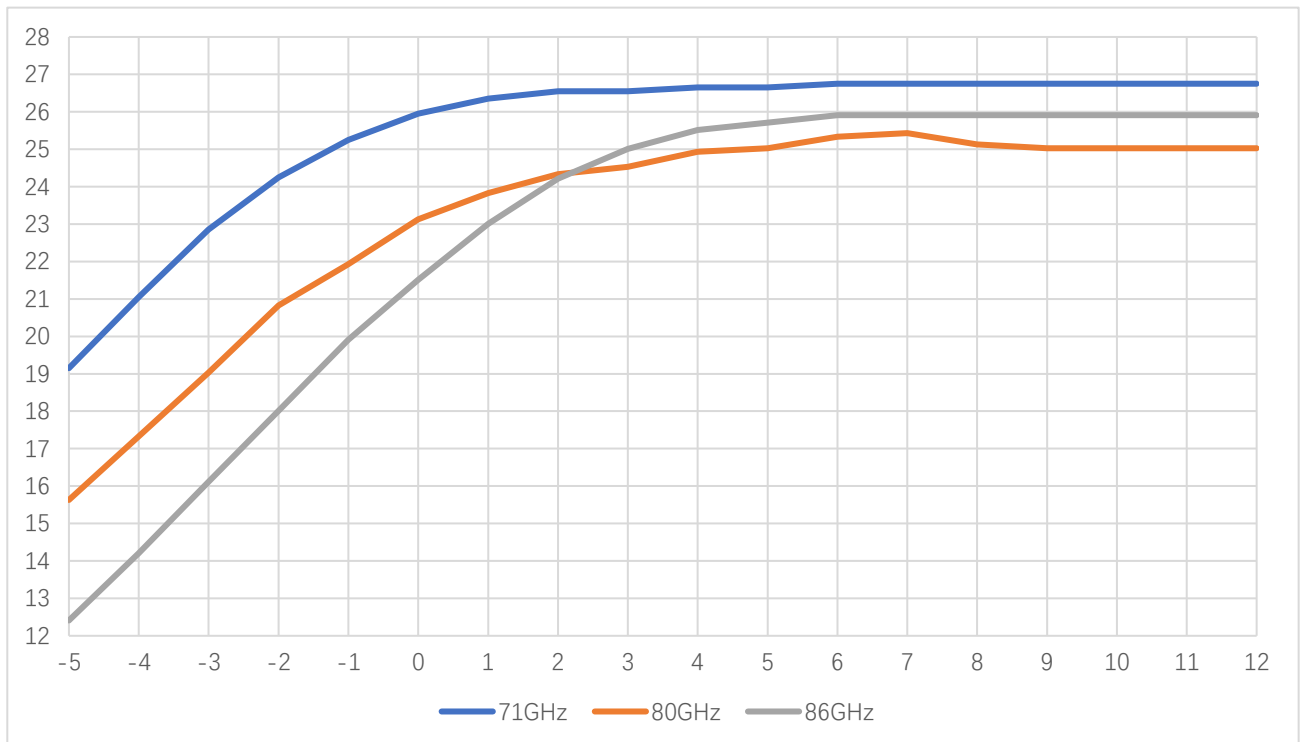
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## Test data

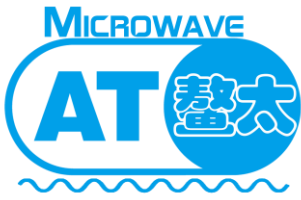


Pout vs Frequency



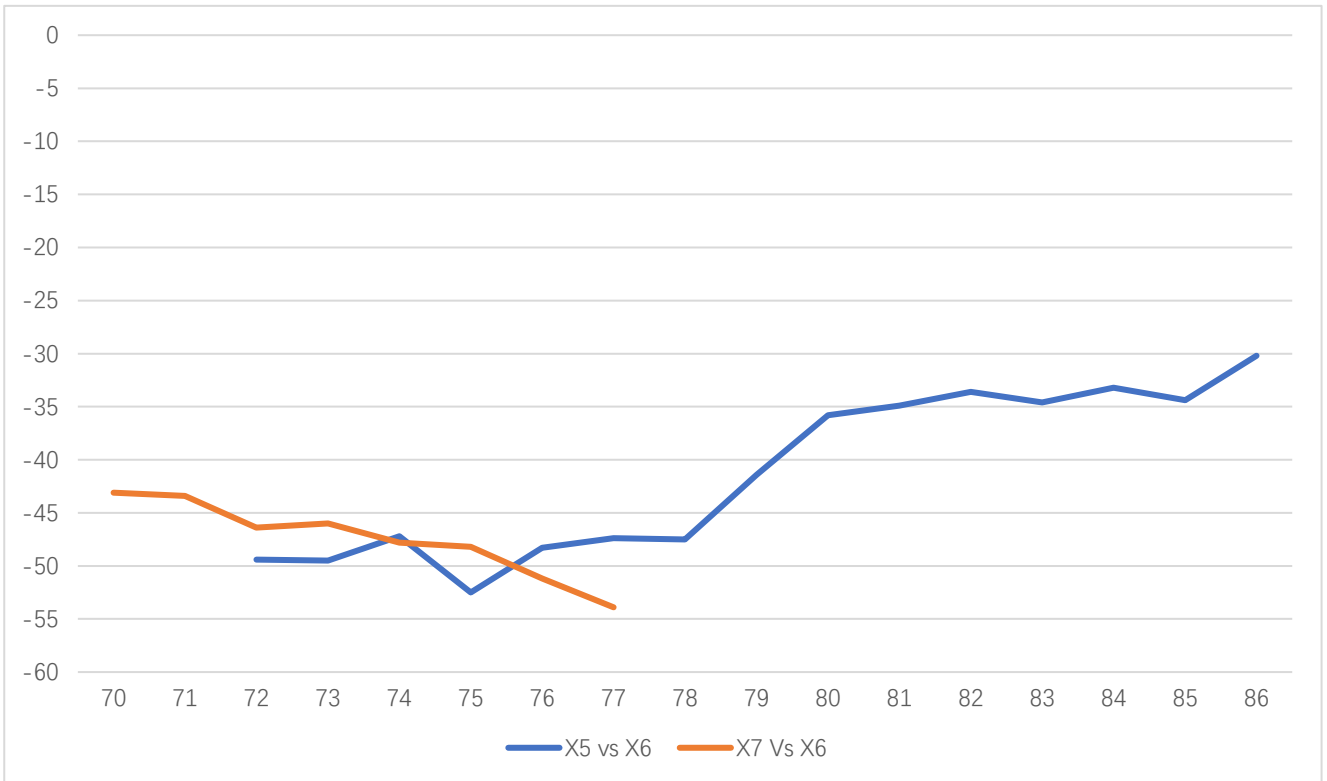
Pout vs Pin at 71/80/86GHz





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X5/X7 Harmonics vs X6 Pout



## Dimension: (mm)

