

## High Power X6 E1 Band Active Multiplier

2023-5-5



### Product Overview

AT-AM6-7077-25 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 11.66 to 12.83GHz with a typical output +25dBm from 70-77GHz.

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: 70-77GHz
- ✓ Pout: +25dBm typical
- ✓ Input: 11.66-12.83GHz, +5dBm
- ✓ Single Supply: +5V, LDO inside

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	11.66GHz		12.83GHz
Input Power	+3dBm	+5dBm	+8dBm
Output Frequency	70GHz		77GHz
Output Power	+23dBm	+25dBm	
Harmonica Suppression		-20dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		0.9A	
Current at +25dBm Pout		1.1A	1.3A
Spec Temp		25C	





# AT-AM6-7077-25

Active Multiplier x6, 70-77GHz Pout=+25dBm

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	SEE OUTLINE

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+20dBm
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-AM6-7077-25	Stand Module with DC Power Supply
AT-AM6-7077-25-LCBT	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, +220V Supply with AC/DC Adapter



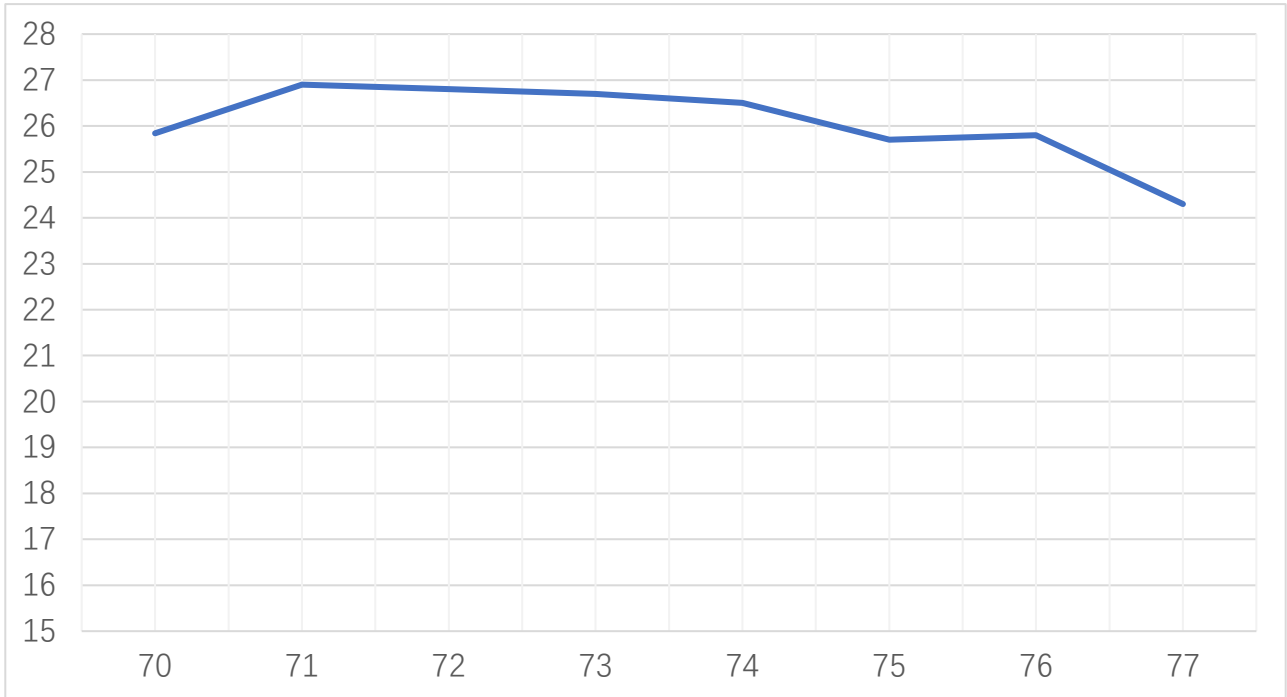


# AT-AM6-7077-25

Active Multiplier x6, 70-77GHz Pout=+25dBm

## Test Data(25C)

Vd=+5V, Pin=+7dBm, Quiescent current=0.8A, Id=1.2A at +25dBm Pout.



Pout vs Frequency



## Dimension:

