

# Full V Band Passive Multiplier



### Description:

AT-PM3-5075M is a full V band, passive frequency multiplier. The multiplier has an input frequency of 16.66-25 GHz with a typical conversion loss -20dB from 50-75GHz.

The multiplier also has a typical harmonic suppression. The input port is 2.92mm female, and the output is WR-15. Other port configurations are available under different requirement.

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

### Feature

- ✓ Frequency: 50-75GHz
- ✓ CL: -20dB typical
- ✓ Input: 16.66-25GHz
- ✓ Low Harmonics

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	16.66GHz		25GHz
Input Power	+15	+17dBm	+20dBm
Multiplier Factor		X3	
Output Frequency	50GHz		75GHz
Conversion Loss		-20dB	-25
Harmonic Suppression		-15dBc	
Drain Voltage		NO	
Spec Temp		25C	





# AT-PM3-5075M

Passive Multiplier x3, 50-75GHz

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-15
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	65g
Size:	25x25x20 mm

## Absolute Maximum Ratings Table

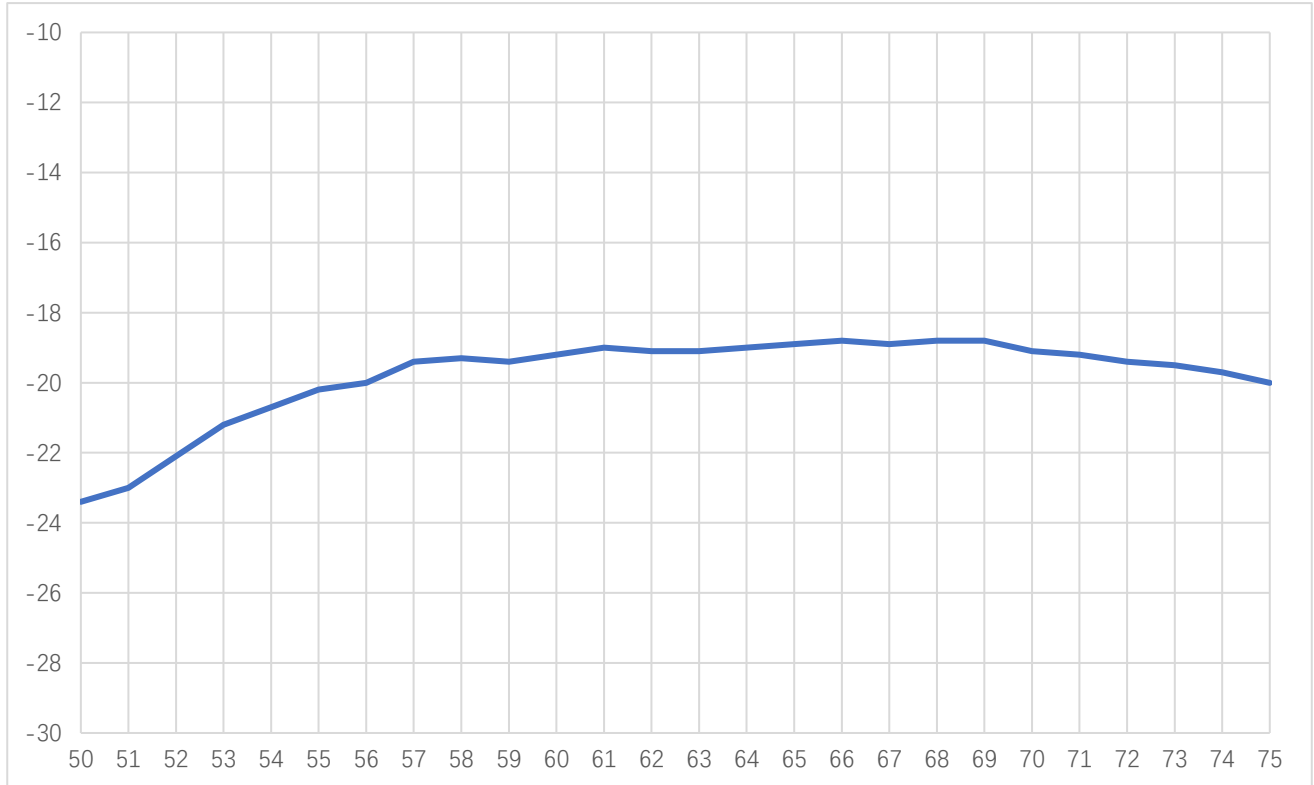
Parameter	Value
RF Input Power	+21dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.

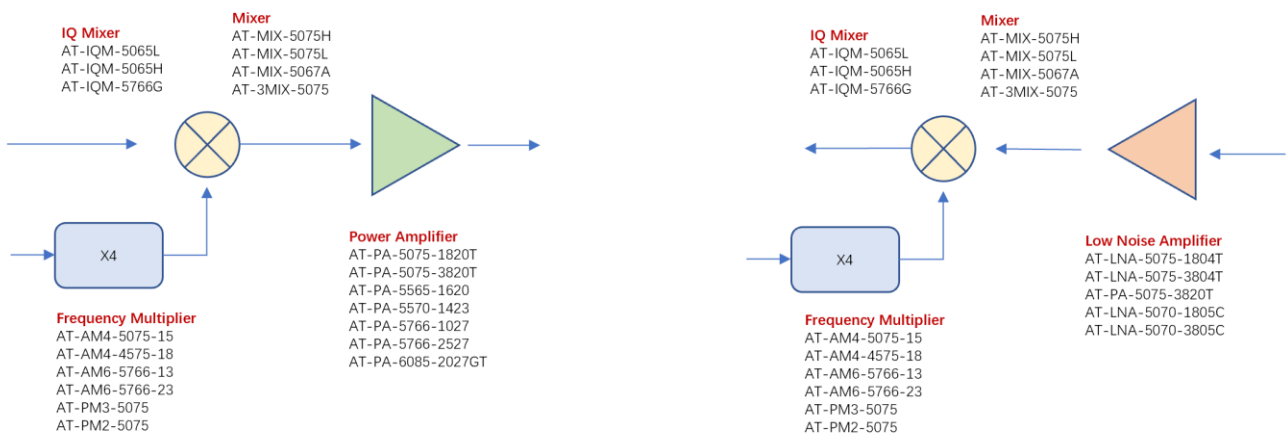


### Test Data



Conversion Loss vs Frequency, Pin=+17dBm

### V Band 50-75GHz



## Dimension(mm)

