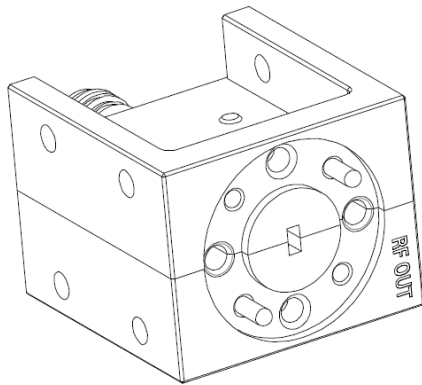


## Full E BAND X2 Passive Multiplier 60-90GHz, WR-12

2022-12-1



### Description:

AT-PM2-6090C is a full E BAND, passive frequency multiplier. The multiplier has an input frequency of 30-45 GHz with a typical output +5dBm from 60-90GHz when Pin=+20dBm.

The multiplier also has -25dBc typical harmonic suppression. The input port is 2.4mm, and the output is WR-12. Other port configurations are available under different requirement.

AT Microwave provides many amplifier and frequency multipliers as driver for this passive doubler.

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

### Feature

- ✓ Frequency: 60-90GHz
- ✓ Pout: +5dBm typical
- ✓ Input: 30-45GHz
- ✓ Low Harmonics

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	30GHz		45GHz
Input Power	+17	+20dBm	+22dBm
Multiplier Factor		X2	
Output Frequency	60GHz		90GHz
Conversion Loss		-15dB	-18dB
Pout at Pin=+20dBm		+5dBm	
Harmonic Suppression		-25dBc	
Drain Voltage		NO	
Spec Temp		25C	





# AT-PM2-6090C

Passive Multiplier x2, 60-90GHz

## Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	WR-12 Waveguide with UG-387/U anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+23dBm
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

### 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.

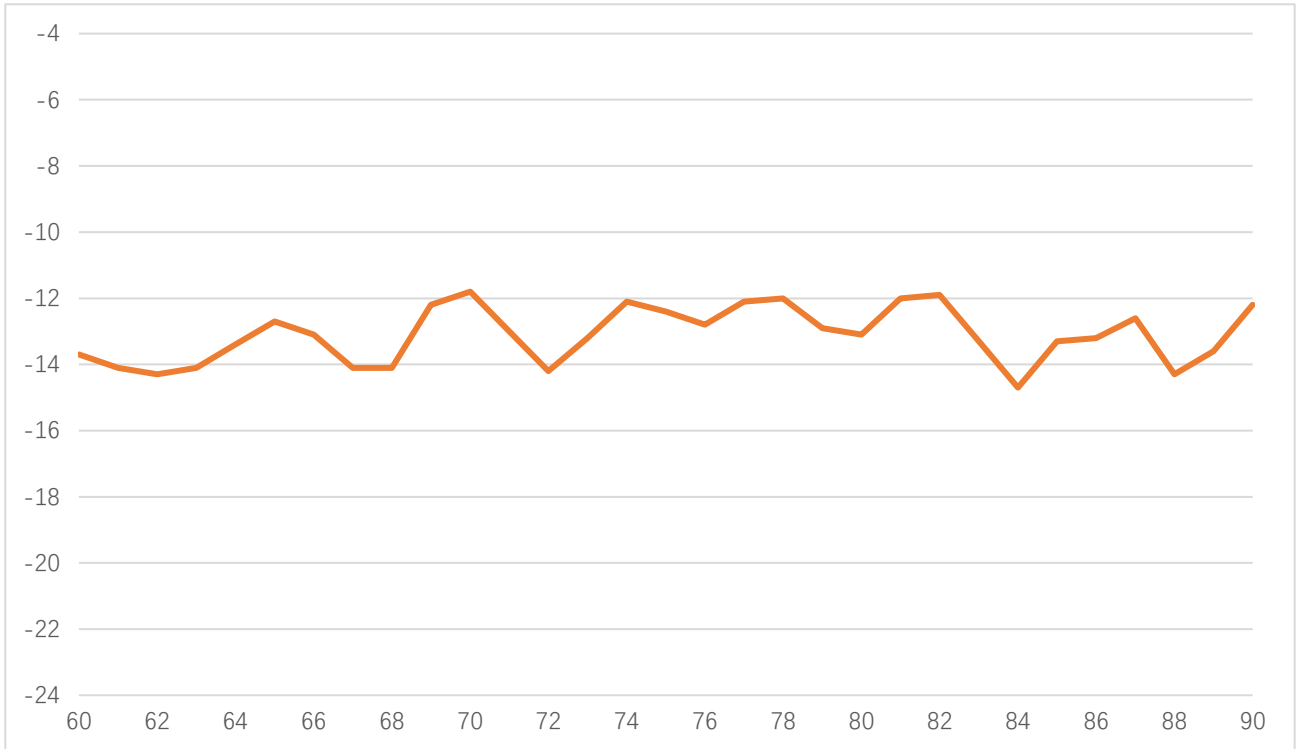




# AT-PM2-6090C

Passive Multiplier x2, 60-90GHz

## Test Data



Conversion Loss vs Frequency, Pin=+20dBm



## Dimension(mm)

