

## Full E Band x3 Active Multiplier 60-90GHz, Pout=+12dBm, WR-12

2022-12-1



### Description:

AT-AM3-6090-12L is a full E band, active x3 frequency multiplier. The multiplier has an input frequency of 20-30GHz with a typical output +12dBm from 60-90GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression. The input port is 2.92mm female, and the output is WR-12. Other port configurations are available under different requirement.

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

### Feature

- ✓ Frequency: 60-90GHz
- ✓ Pout: +12dBm typical
- ✓ Input: 20-30GHz
- ✓ Low Harmonics

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		20-30GHz	
Input Power	+0dBm	+3dBm	+5dBm
Multiplier Factor		X3	
Output Frequency		60-90GHz	
Output Power	+10dBm	+12dBm	
Harmonic Suppression		-20dBc	
Drain Voltage		+5V	+8V
Idd/Current		250mA	0.35A
Spec Temp		25C	





# AT-AM3-6090-12L

Active Multiplier x3, 60-90GHz Pout=+17dBm

## Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	200g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+150dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

### 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.



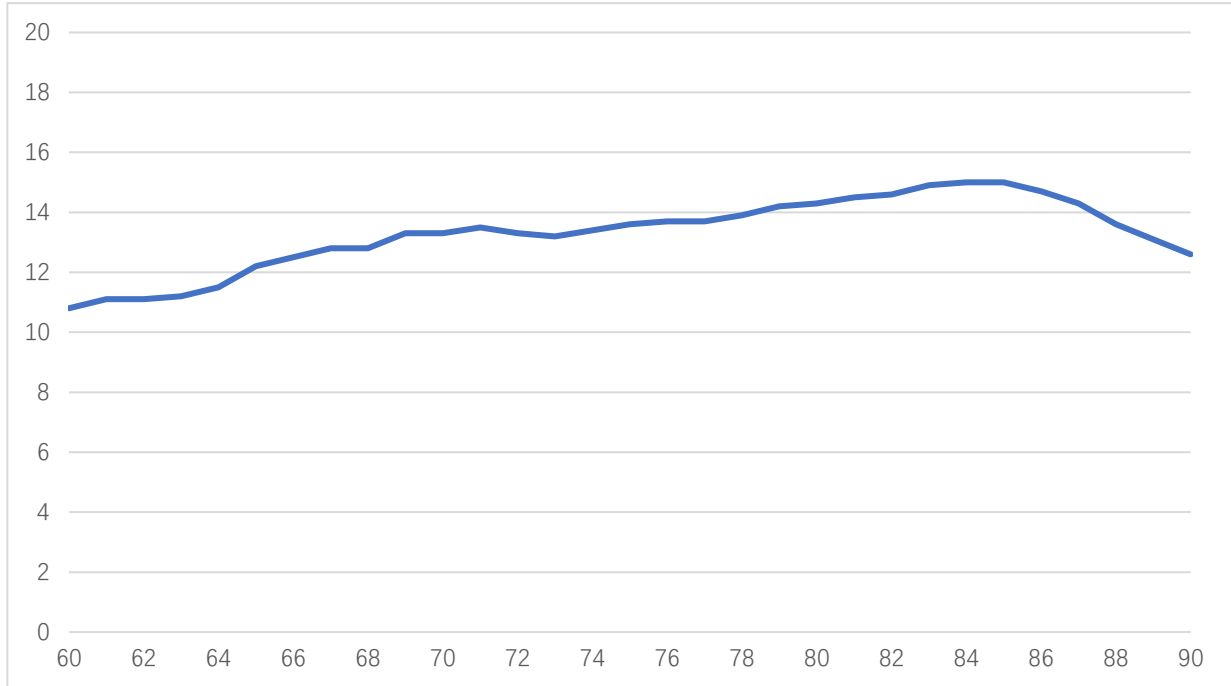


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## Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



Pout vs Frequency



## Dimension (unit in mm)

