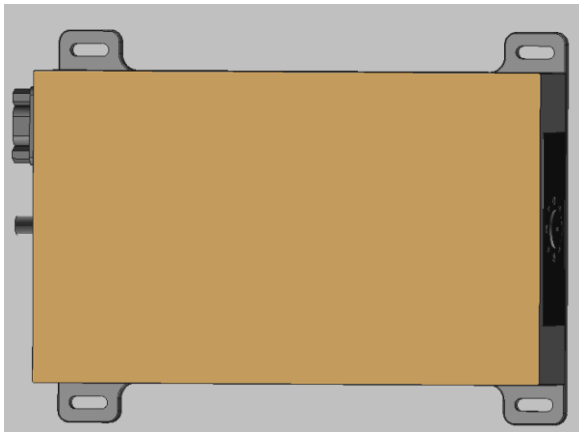


## Full W Band Active Multiplier 75-110GHz, Pout=+29dBm, WR-10

2022-8-1



### Description:

AT-AM6-75110-29GN is a full W band, active x6 frequency multiplier. The multiplier has an input frequency of 12.5-18.33 GHz with a typical output +29dBm from 75-110GHz.

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 SMA female, and the output is WR-10. Other port configurations are available under different requirement.

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

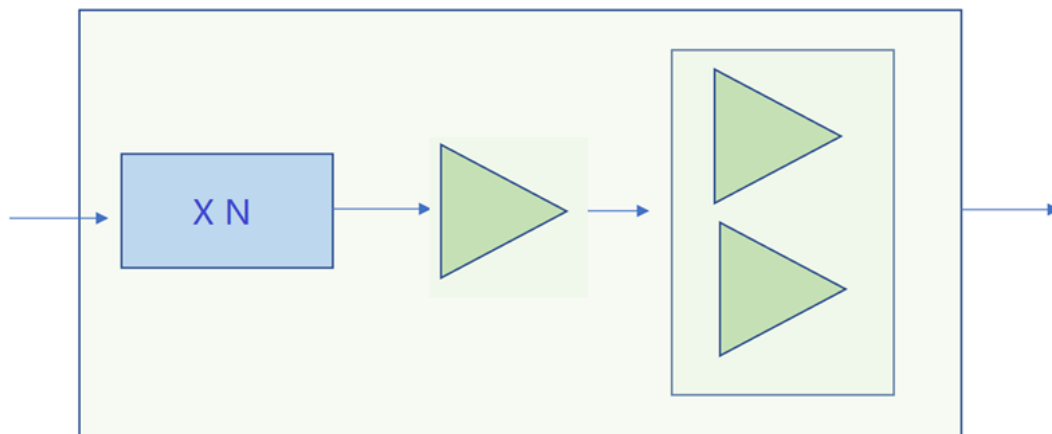
### Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: +29dBm typical
- ✓ Input: 12.5-18.33GHz
- ✓ Low Harmonics

### Application

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

### Block Diagram





# AT-AM6-75110-29GN

Active Multiplier x6, 75-110GHz Pout=+29dBm

## Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	+0	+3dBm	+7dBm
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power	+27dBm	+29dBm	
X5/X7 Harmonic Suppression		-30dBc	
Drain Voltage		+24V	+28V
Current		1.5A	2.0A
Spec Temp		25C	





# AT-AM6-75110-29GN

Active Multiplier x6, 75-110GHz Pout=+29dBm

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	1500g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+30V
RF Input Power	+15dBm
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.

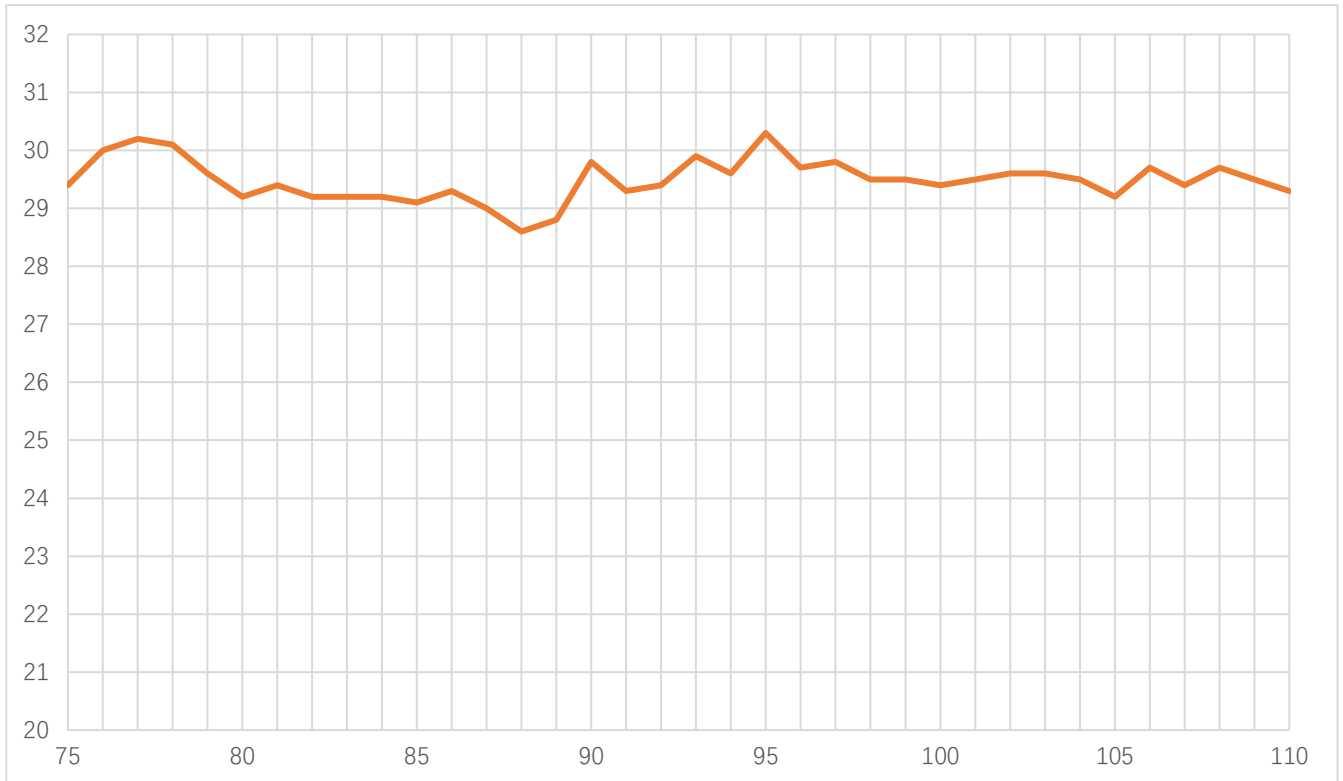




# AT-AM6-75110-29GN

Active Multiplier x6, 75-110GHz Pout=+29dBm

## Test Data:



Pout vs Frequency

## Dimension ( unit in mm)

Outline will provide when place order.

