

### D Band x12 Active Multiplier

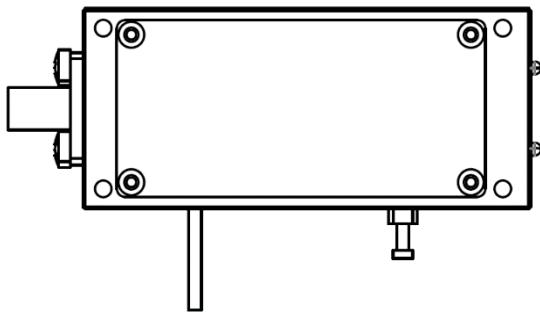
2022-12-1

### Pout=+13dBm, 110-150GHz, WR-06

#### Product Overview

AT-AM12-110150-13L is a D band, active x12 frequency multiplier. The multiplier has an input frequency of 9.16-12.5GHz with a typical output +13dBm from 110-145GHz. Performance is reduced from 145-150GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -15dBc. The input port is SMA female, and the output is a WR-06 waveguide UG-387-M with anti-cocking flange. More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)



#### Feature

- ✓ Frequency: 110-150GHz
- ✓ Pout +13dBm Typ
- ✓ Input: 9.16-12.6GHz, +5dBm
- ✓ Single Power Supply

#### Application

- ✓ D band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)

### Key Features

Parameter	Min	Typical	Max
Input Frequency		9.16-12.5GHz	
Multiplier Factor		X12	
Input Power	+3dBm	+5dBm	+8dBm
Output Frequency		110-150GHz	
Output Power	+10dBm +7dBm	110-145GHz: +13dBm 145-150GHz: +10dBm	
X11/X13 Harmonic Suppression		-15dBc	
Drain Voltage		+5V	
Current		0.5A	
Specification Temp		25C	





# AT-AM12-110150-13L

X12 Active Multiplier, Pout=+13dBm

## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-06 UG-387U/M with Anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

## 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.

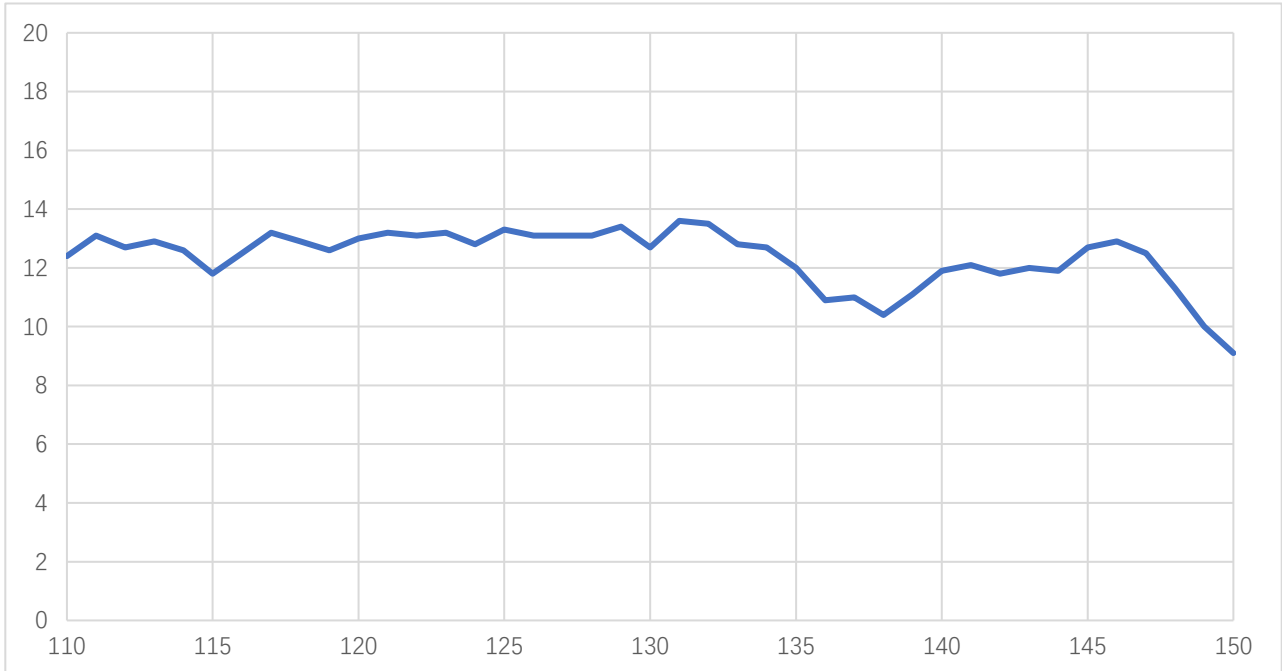




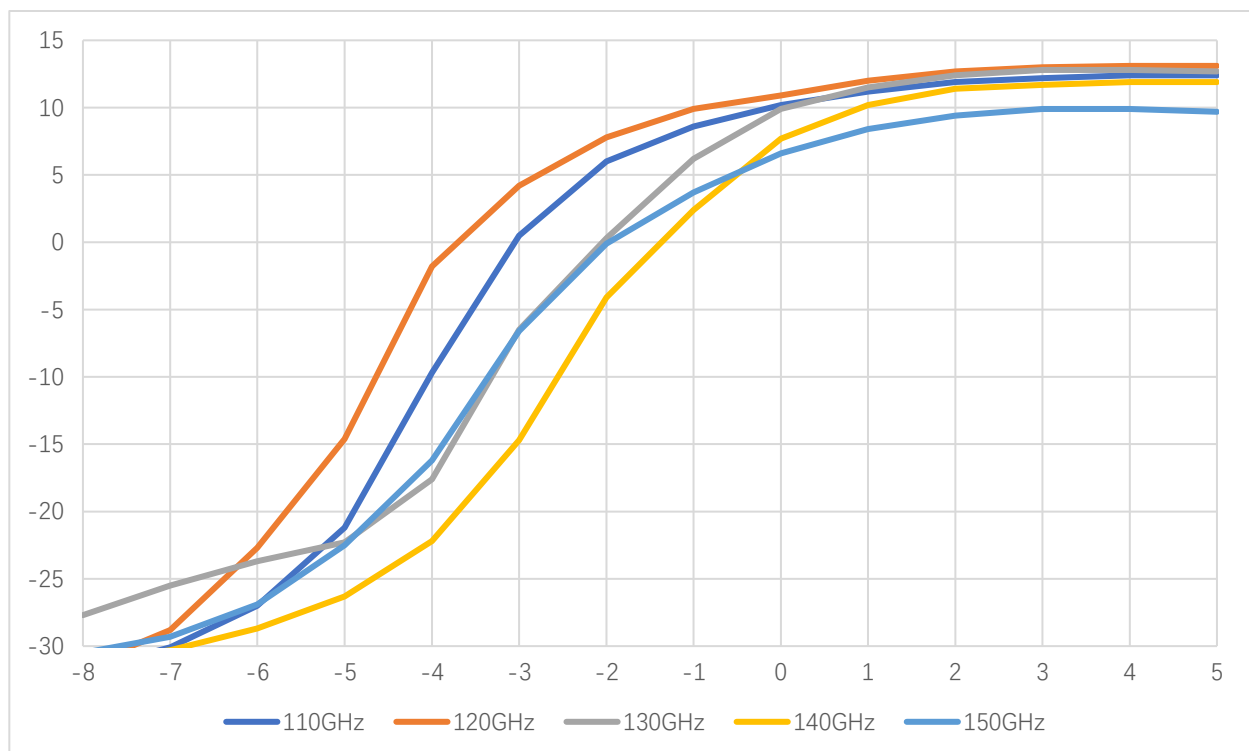
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## Test Data (25C)



Pout vs Frequency



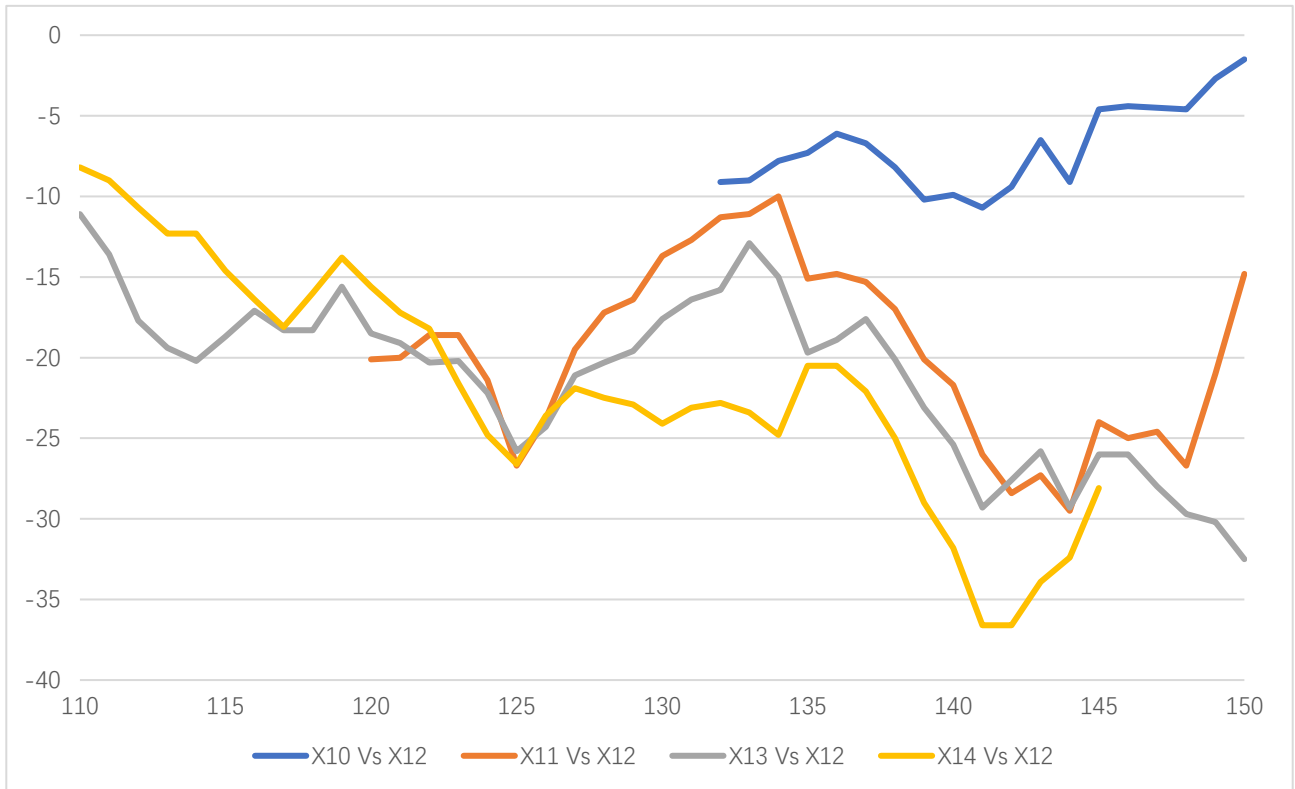
Pout vs Pin





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Harmonics vs X12 Pout



## Dimension(mm)

