



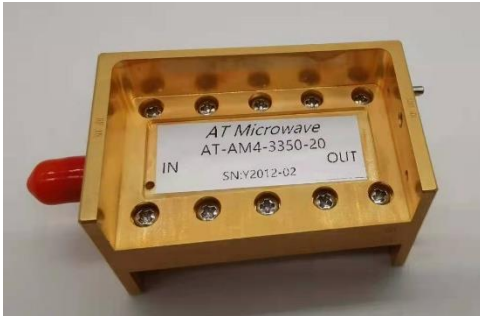
# AT-AM4-3350-23

Active Multiplier x4, 33-50GHz Pout=+23dBm

## Full Q Band X4 Active Multiplier 33-50GHz, Pout=+23dBm, WR-22

2022-5-1

### Description:



AT-AM4-3350-23 is a full Q band, active x4 frequency multiplier. The multiplier has an input frequency of 8.25-12.5 GHz with a typical output +23dBm from 33-50GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -30dBc. The input port is SMA female, and the output is a WR-22 waveguide. Other port configurations are available under different requirement.

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

### Feature

- ✓ Frequency: 33-50GHz
- ✓ Pout: +23dBm typical
- ✓ Input: 8.25-12.5GHz
- ✓ Low Harmonics

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		8.25-12.5GHz	
Input Power		+13dBm	+15
Multiplier Factor		X4	
Output Frequency	33GHz		50GHz
Output Power	+21	+23dBm	
X3/X5 Harmonic Suppression		-30dBc	
Drain Voltage		+5V	+8V
Current/A		0.4A	
Spec Temp		25C	





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## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-22
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

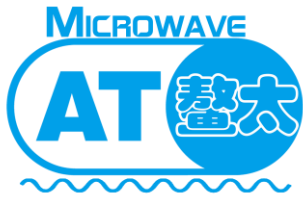
### Notes:

- ✓ 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.

## Part Number Selection Guide

Part Number	Description
AT-AM4-3350-23	Input driver +13dBm
AT-AM4-3350-23L	Low Input diver module, +3dBm. Recommended



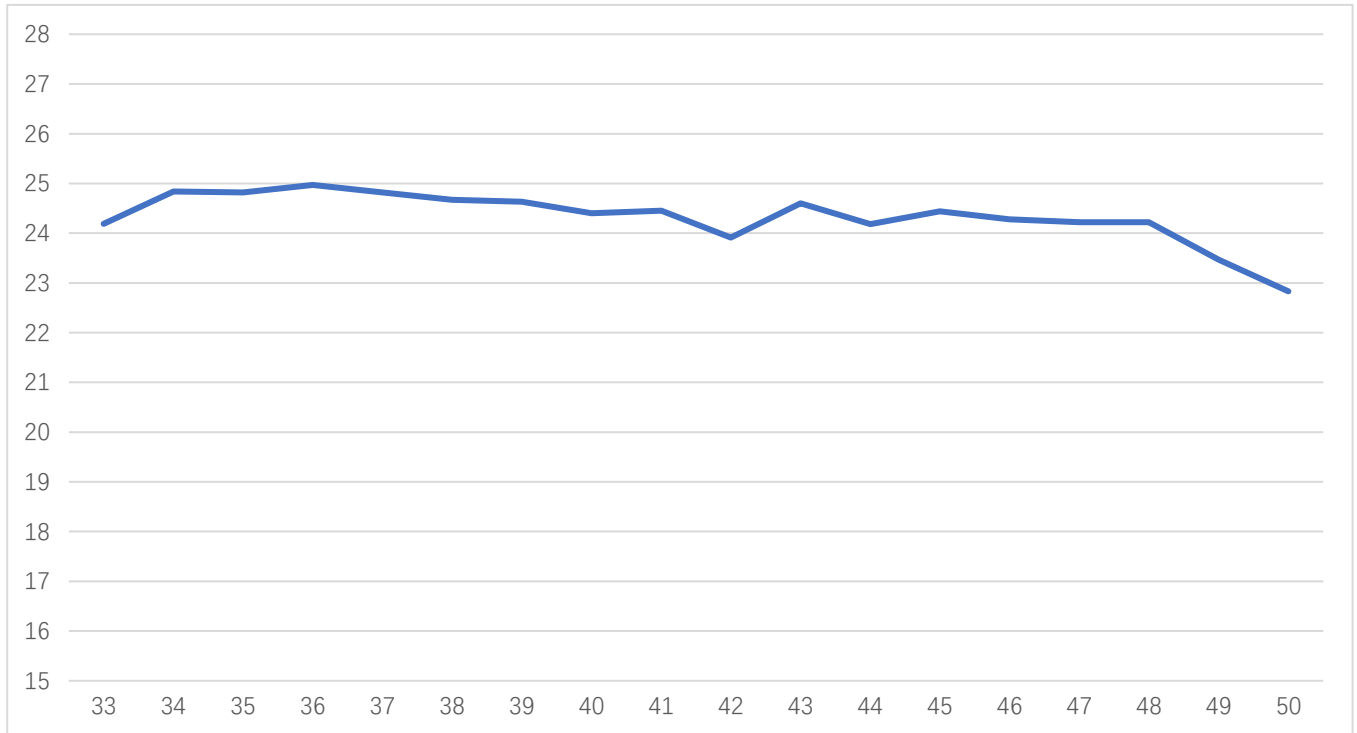


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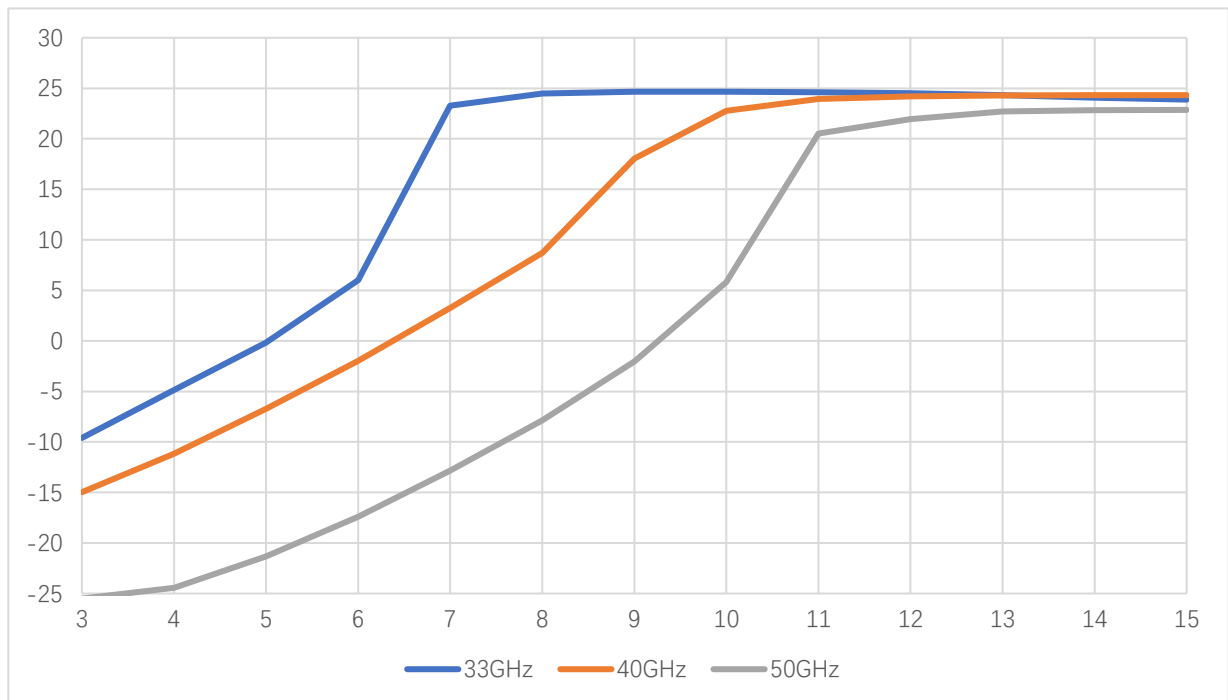
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## Test Data (25C)

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

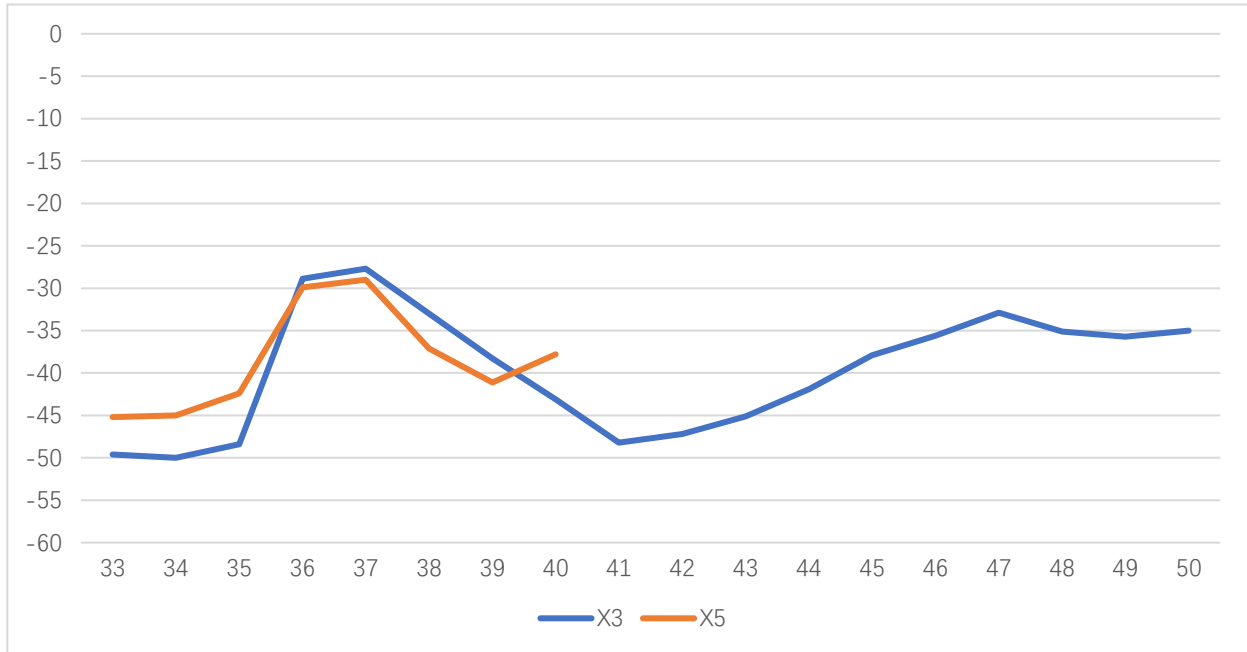


Pout vs Frequency at Pin=+13dBm



Pout vs Pin at 33/40/50GHz





X3/X5 Harmonics comparing with X4

## Dimension:(unit: mm)

