



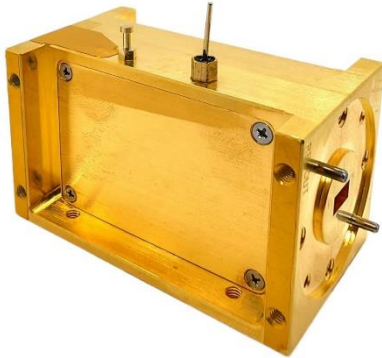
# AT-AM4-3350-23L

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

## Full Q Band X4 Active Multiplier

2024-11-9

## Pout=+23dBm, Low Input Power, WR-22



### Description:

AT-AM4-3350-23L is a full Q band, active x4 frequency multiplier with low input power. 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 -20dBc. 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, +3dBm
- ✓ 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	-3dBm	0dBm	+5
Multiplier Factor		X4	
Output Frequency	33GHz		50GHz
Output Power	+20	+23dBm	
X3/X5 Harmonic Suppression		-15dBc	
Drain Voltage		+5V	+8V
Current/A		0.65A	
Spec Temp		25C	

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## Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-22 Waveguide with UG-383/U
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	-40 to +85C
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.

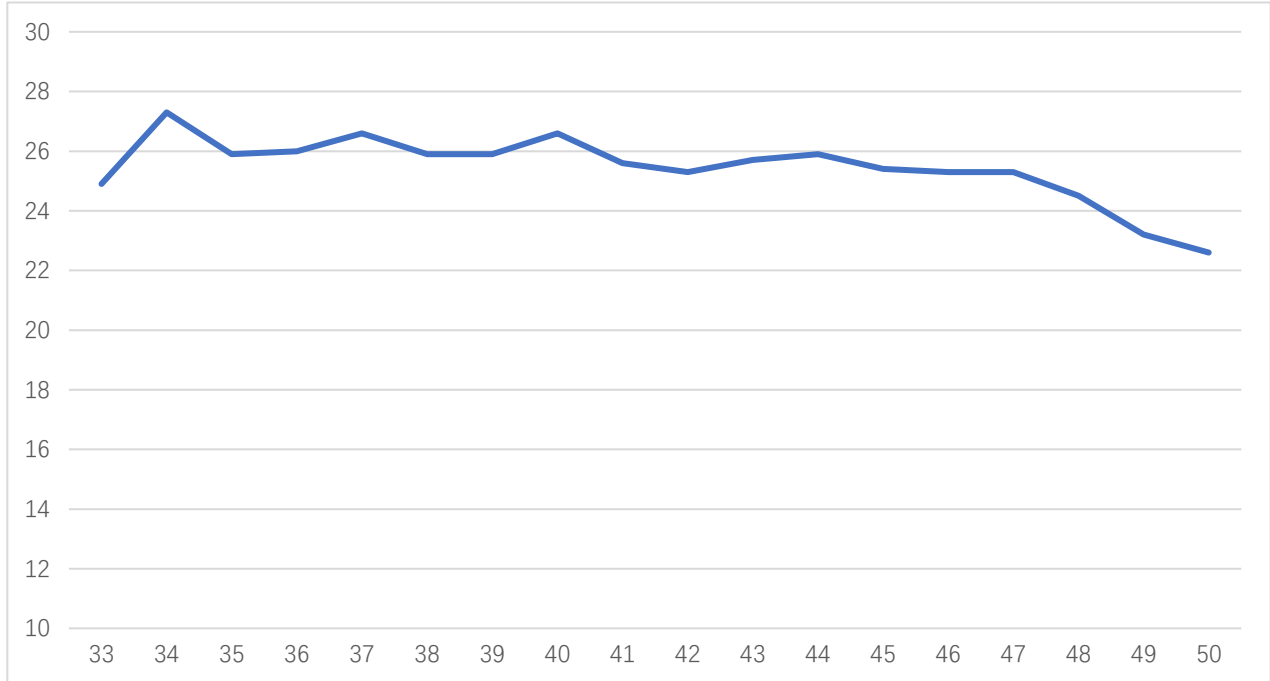




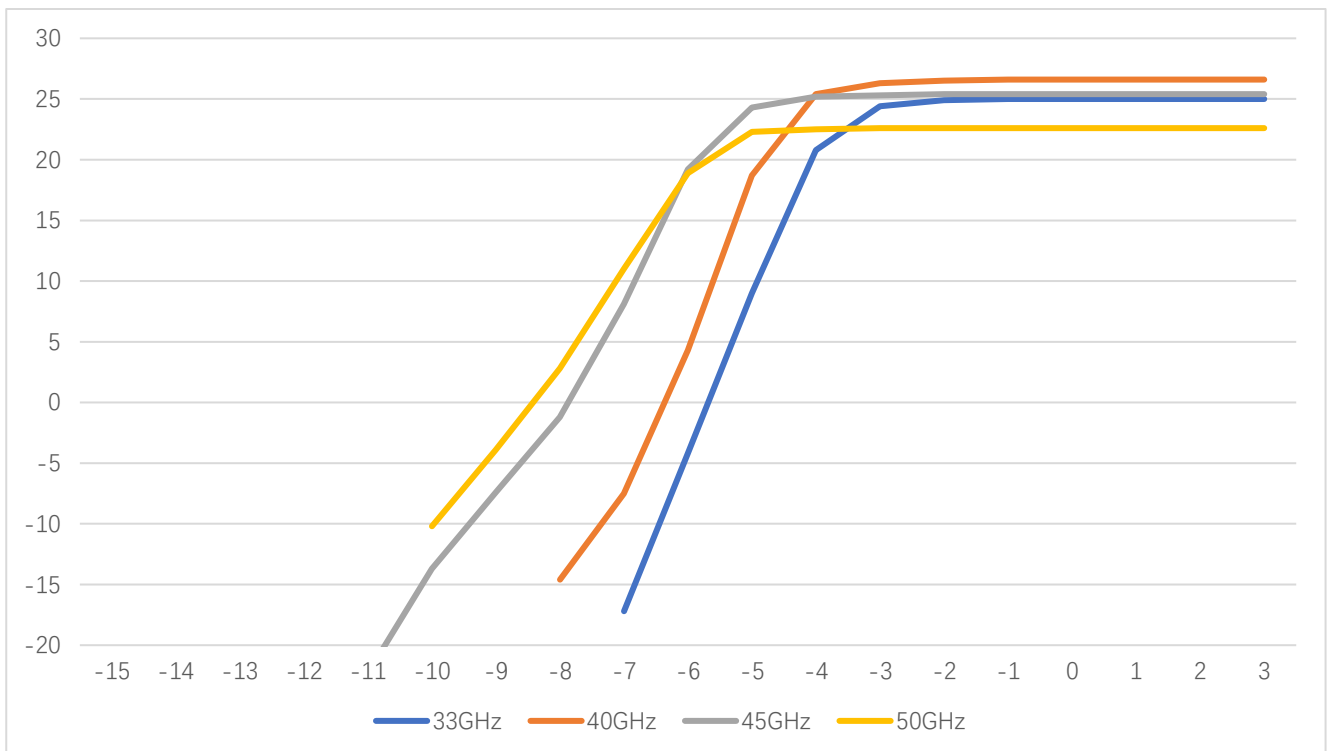
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## TEST DATA(25C)

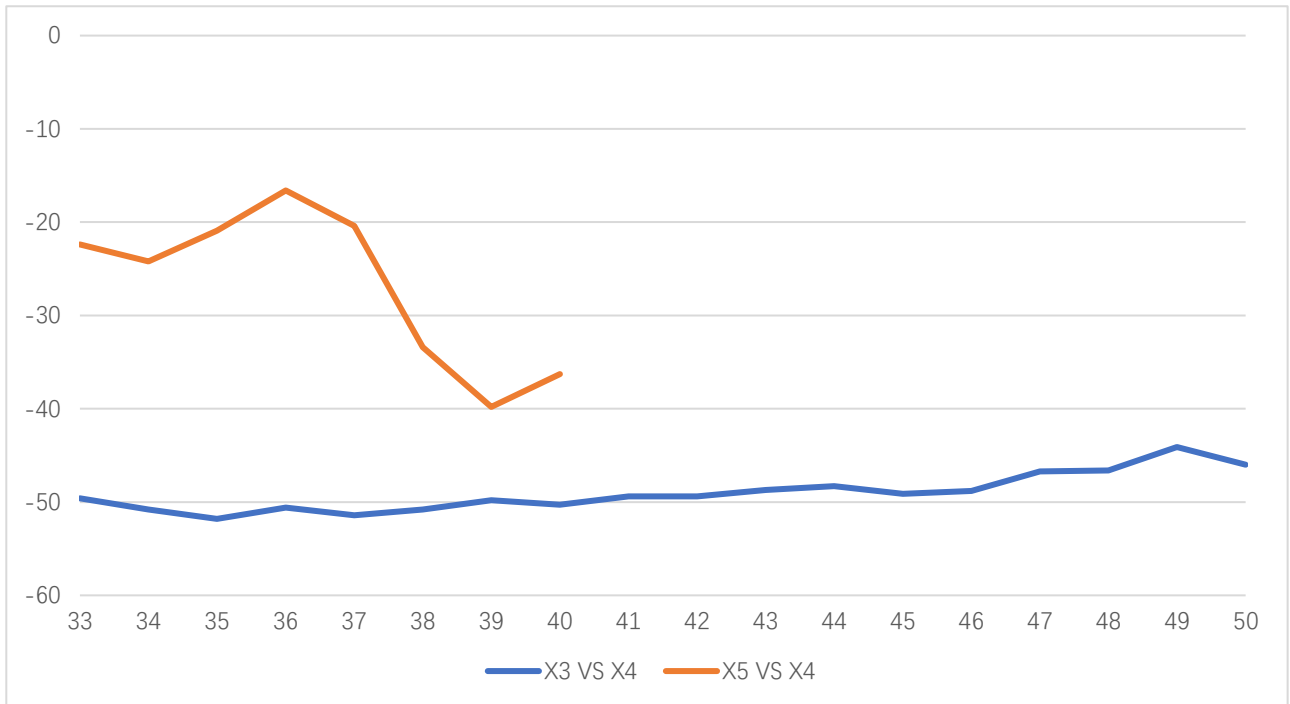


Pout vs Frequency



Pout vs Pin





X3/X5 Harmonics vs X4 Pout

## Dimension:(unit: mm)

