



AT-AM12-110140-13L

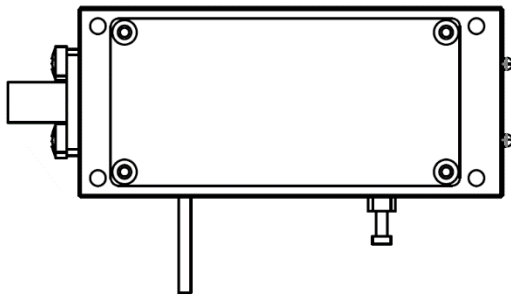
X12 Active Multiplier, Pout=+13dBm

F Band x12 Active Multiplier

2022-12-1

Pout=+13dBm, 110-140GHz, WR-08

Product Overview



AT-AM12-110140-13L is a F band, active x12 frequency multiplier. The multiplier has an input frequency of 9.16-11.67GHz with a typical output +13dBm from 110-140GHz.

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

Feature

- ✓ Frequency: 110-140GHz
- ✓ Pout +13dBm Typ
- ✓ Input: 9.16-12.6GHz, +3dBm
- ✓ 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		9.16-11.67GHz	
Multiplier Factor		X12	
Input Power	0dBm	+3dBm	+5dBm
Output Frequency		110-140GHz	
Output Power	+10dBm	+13dBm	
X11/X13 Harmonic Suppression		-15dBc	
Drain Voltage		+5V	
Current		0.5A	
Specification Temp		25C	

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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-08 Waveguide with UG-387/U-M 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.

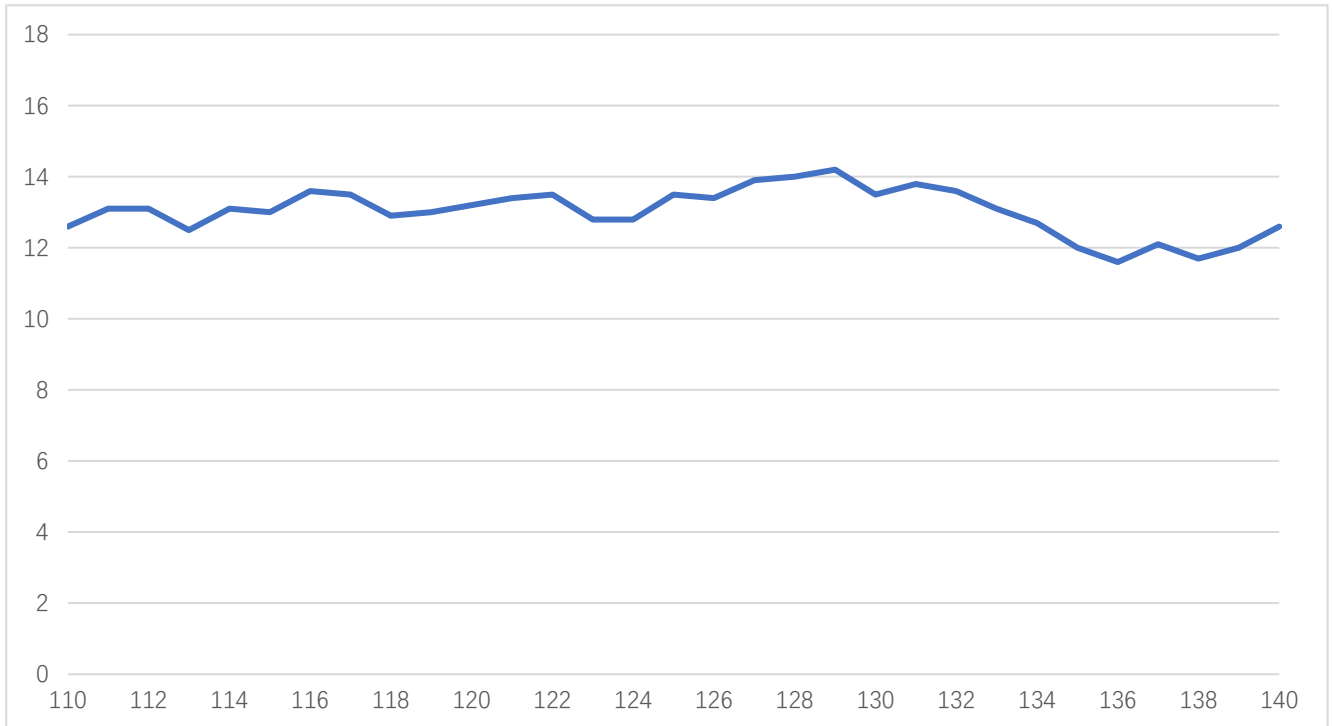




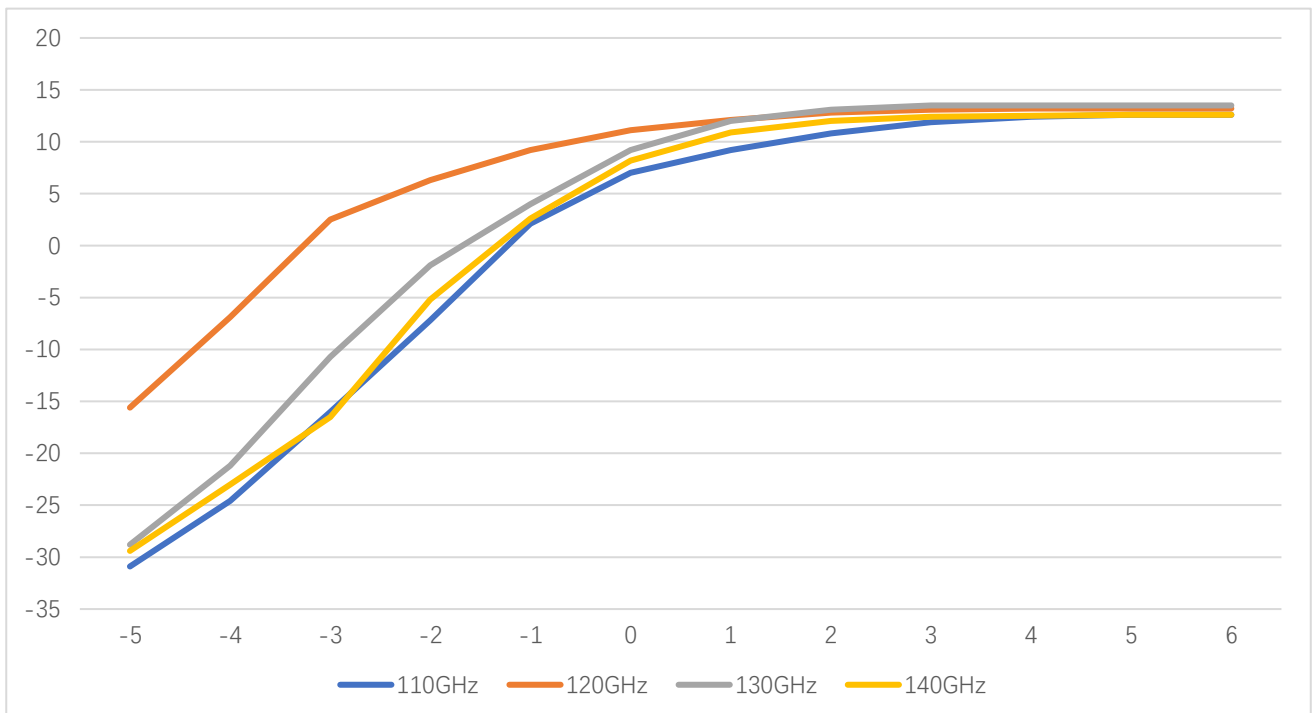
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Test Data (25C)



Pout vs Frequency



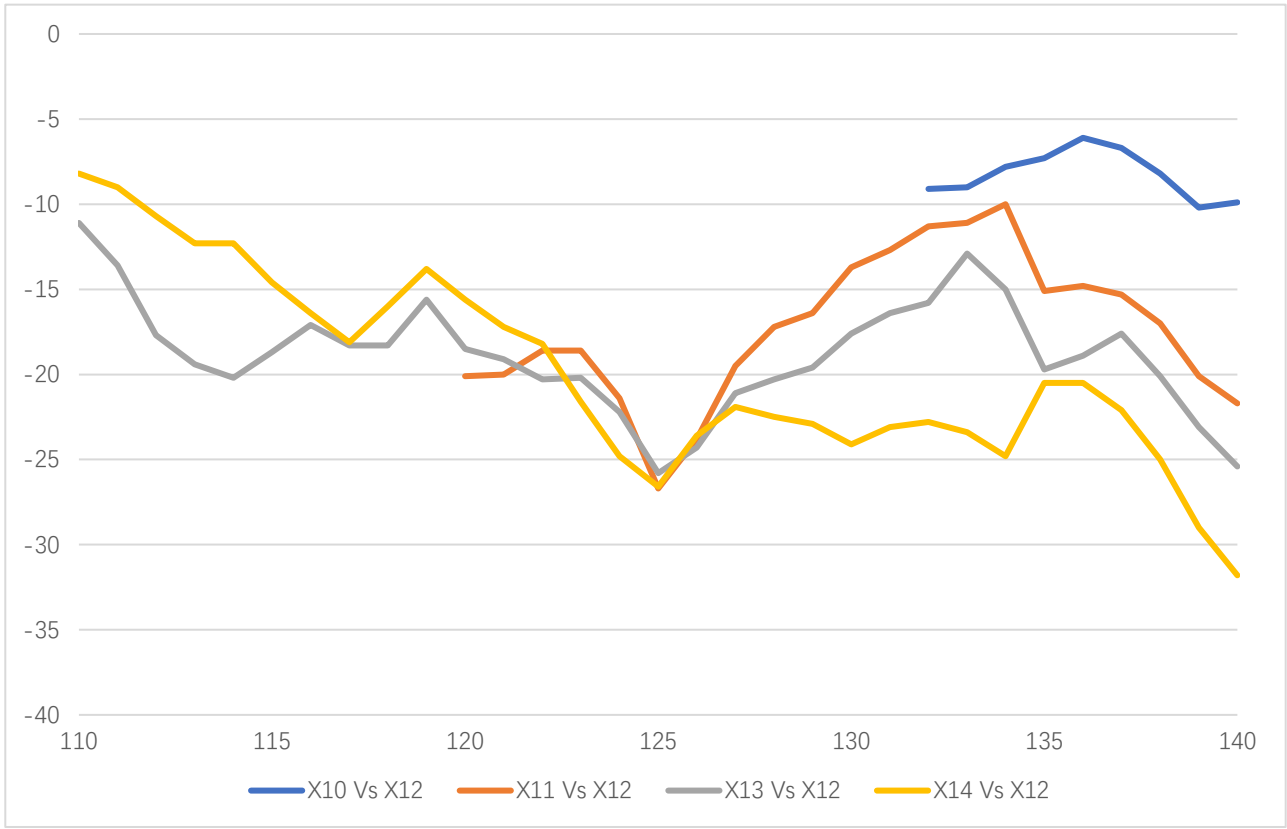
Pout vs Pin





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Harmonics vs X12 Pout



Dimension(mm)

