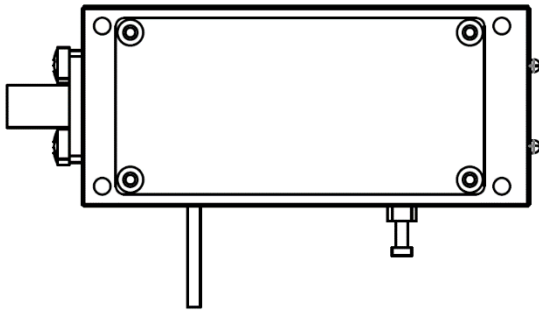


F Band x6 Active Multiplier

2022-12-1

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



Product Overview

AT-AM6-110140-13L is a F band, active x6 frequency multiplier. The multiplier has an input frequency of 18.33-23.33GHz 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-08 waveguide with a standard UG-387-M flange.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 110-140GHz
- ✓ Pout +13dBm Typ
- ✓ Input: 18.33-23.33GHz, +3dBm
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency		18.33-23.33GHz	
Multiplier Factor		X6	
Input Power	0dBm	+3dBm	+5dBm
Output Frequency		110-140GHz	
Output Power	+10dBm	+13dBm	
X7 Harmonic Suppression		-20dBc	
X5 Harmonic Suppression		-8dBc	
Drain Voltage		+5V	
Current		0.5A	
Specification Temp		25C	





AT-AM6-110140-13L

X6 Active Multiplier, Pout=+13dBm

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-08
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 +112C

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.

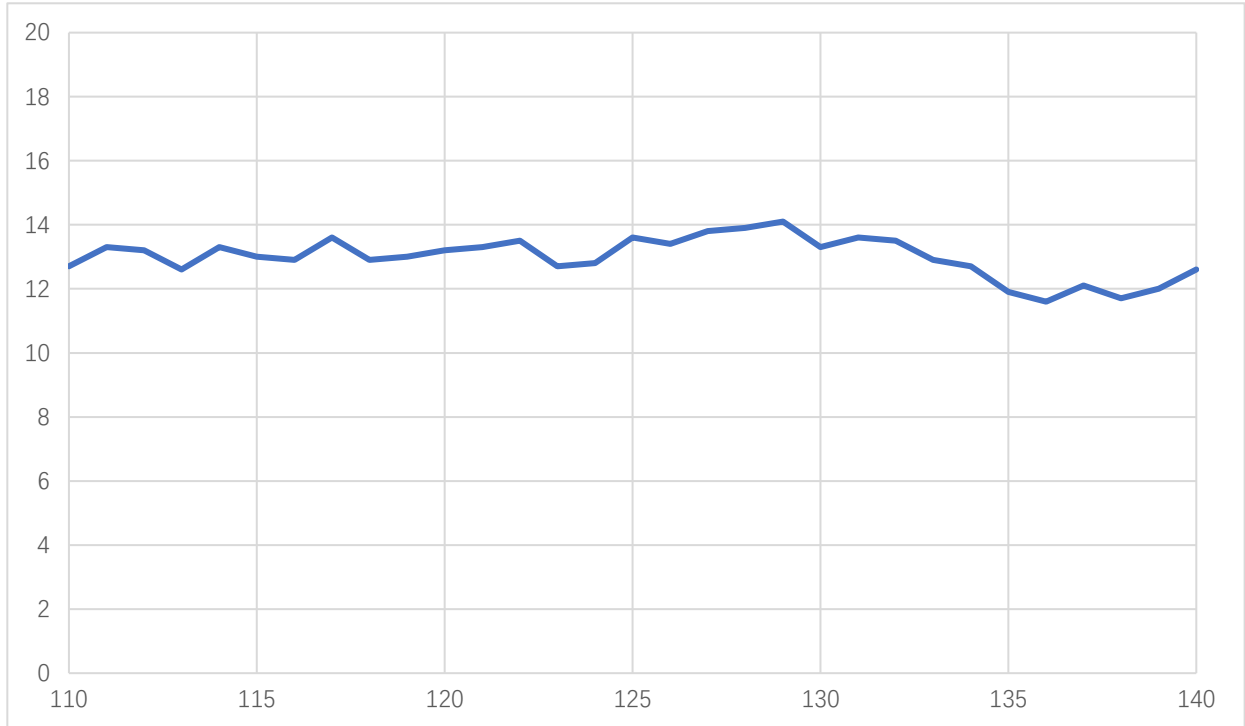




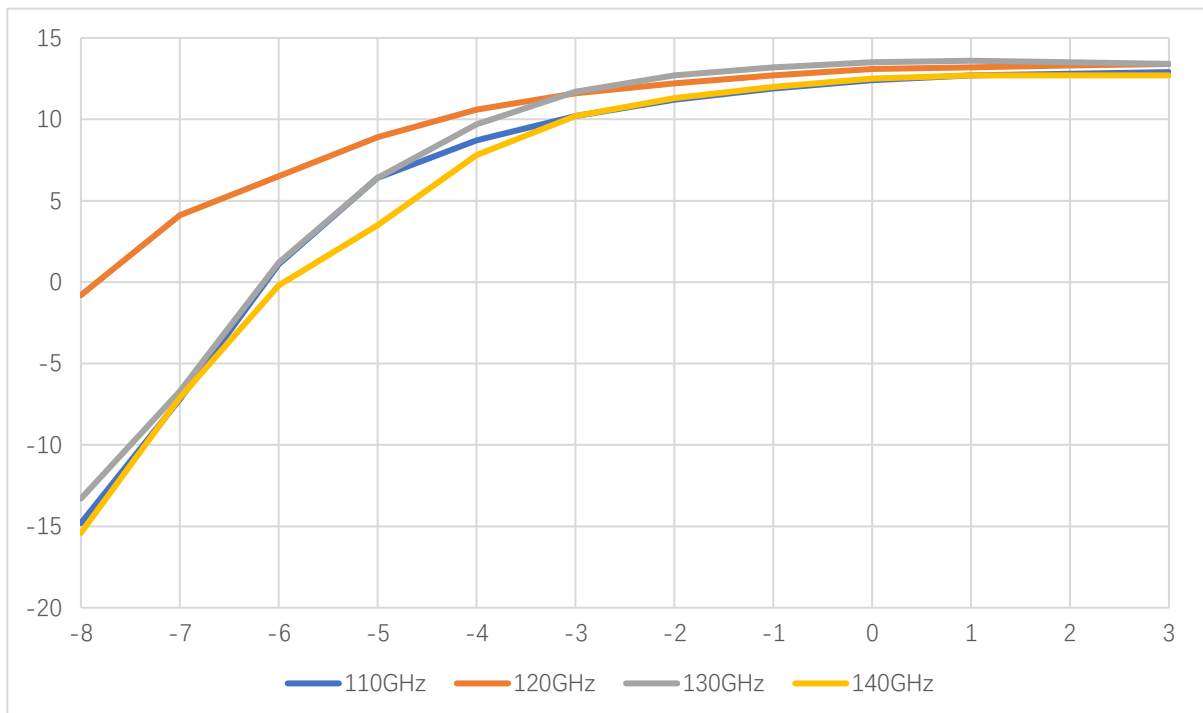
AT-AM6-110140-13L

X6 Active Multiplier, Pout=+13dBm

Test Data(25C)



Pout vs Frequency



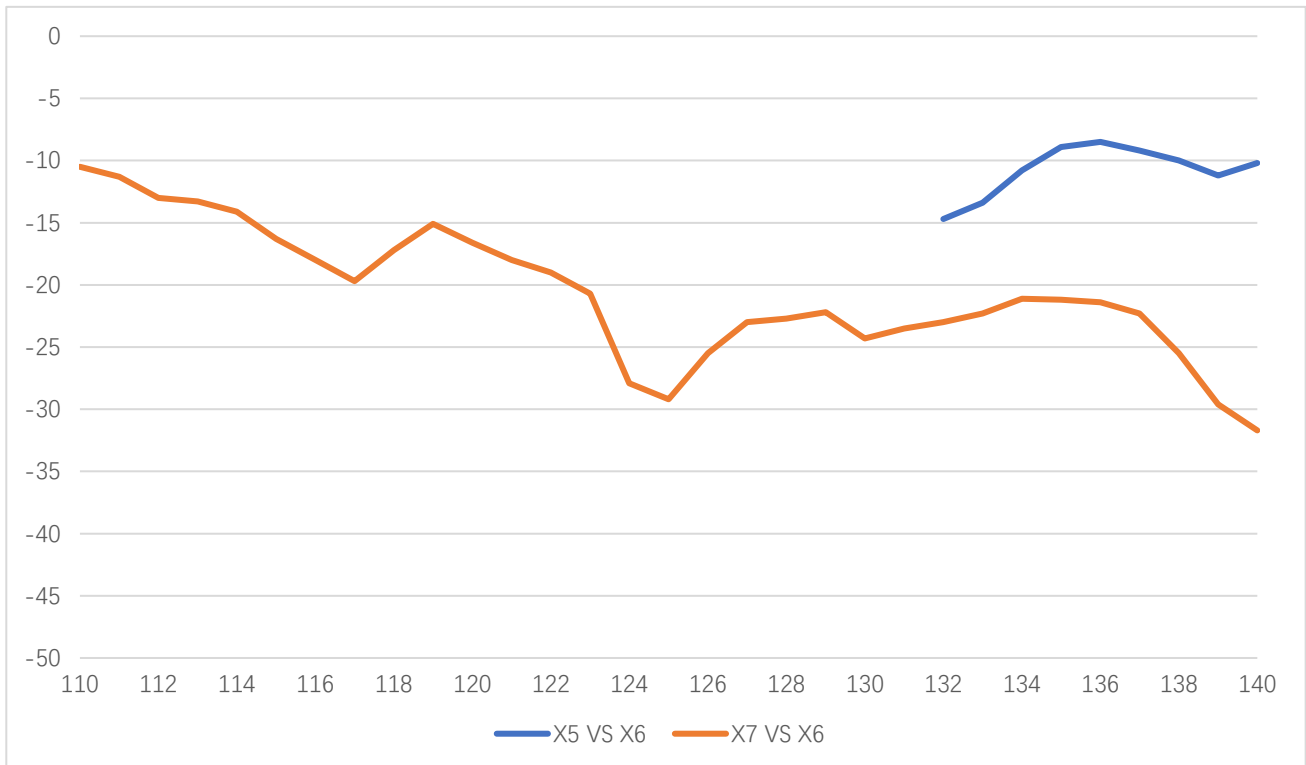
Pout vs Pin





AT-AM6-110140-13L

X6 Active Multiplier, Pout=+13dBm



X5/X7 Harmonics vs X6 Pout



Dimension(mm)

