



# AT-BTAM6-110150-13

Bench-Top D Band X6 Frequency Extender

## D Band (110-150GHz) Active Multiplier X6, Bench-top Test Equipment, WR-06



### Product Overview

AT-BTAM6-110150-13 is D band, active x6 frequency multiplier. The multiplier has an input frequency of 18.33-25GHz with a typical output +13dBm from 110-150GHz.

The input port is SMA female, and the output is a WR-06 waveguide with a standard UG/387-M flange.

Please note that there is no isolator at output Port in default. Isolator can be added by -ISO option with extra insertion loss. More information,

please contact with [sales@atmicrowave.com](mailto:sales@atmicrowave.com)

### Advantages

- ✓ Frequency: 110-150GHz
- ✓ Pout: +13dBm typical
- ✓ Input: 18.33-25GHz, +3dBm
- ✓ Bench-Top Labs Test

### Application

- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System
- ✓ RCS Test

### Key Features

Parameter	Min	Typical	Max
Input Frequency	18.33GHz		25GHz
Input Power	0dBm	+3dBm	+10
Multiplier Factor		X6	
Output Frequency	110GHz		150GHz
Output Power	+10dBm +7dBm	110-145GHz: +13dBm 145-150GHz: +10dBm	
X7 Harmonic Suppression		-20dBc	
X5 Harmonic Suppression (110-145GHz)		-8dBc	
Input Return Loss		-10dB	
Power Supply	90V	110-220V	240V
Temp Spec		25C	



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## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-06
Power Supply	90V TO 240V AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Weight	2.5KG
Dimension	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+90 to 260V
IF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## 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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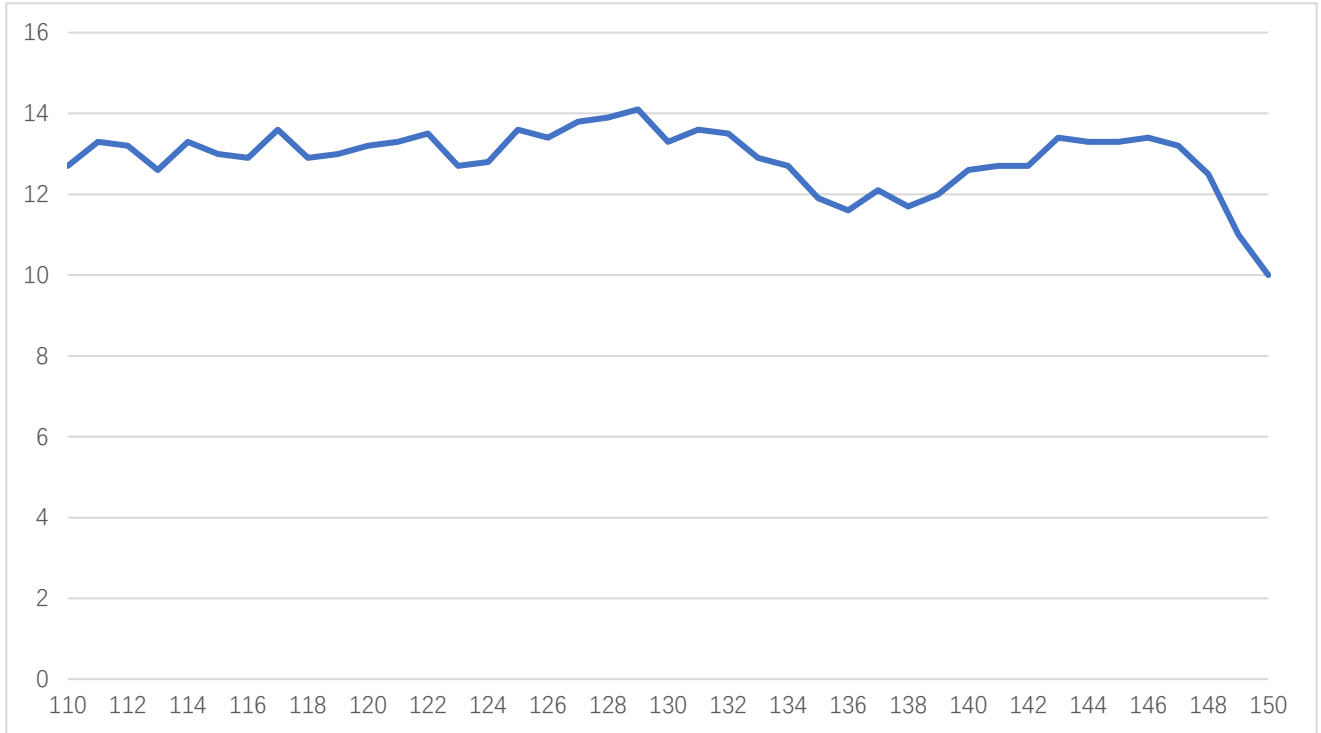




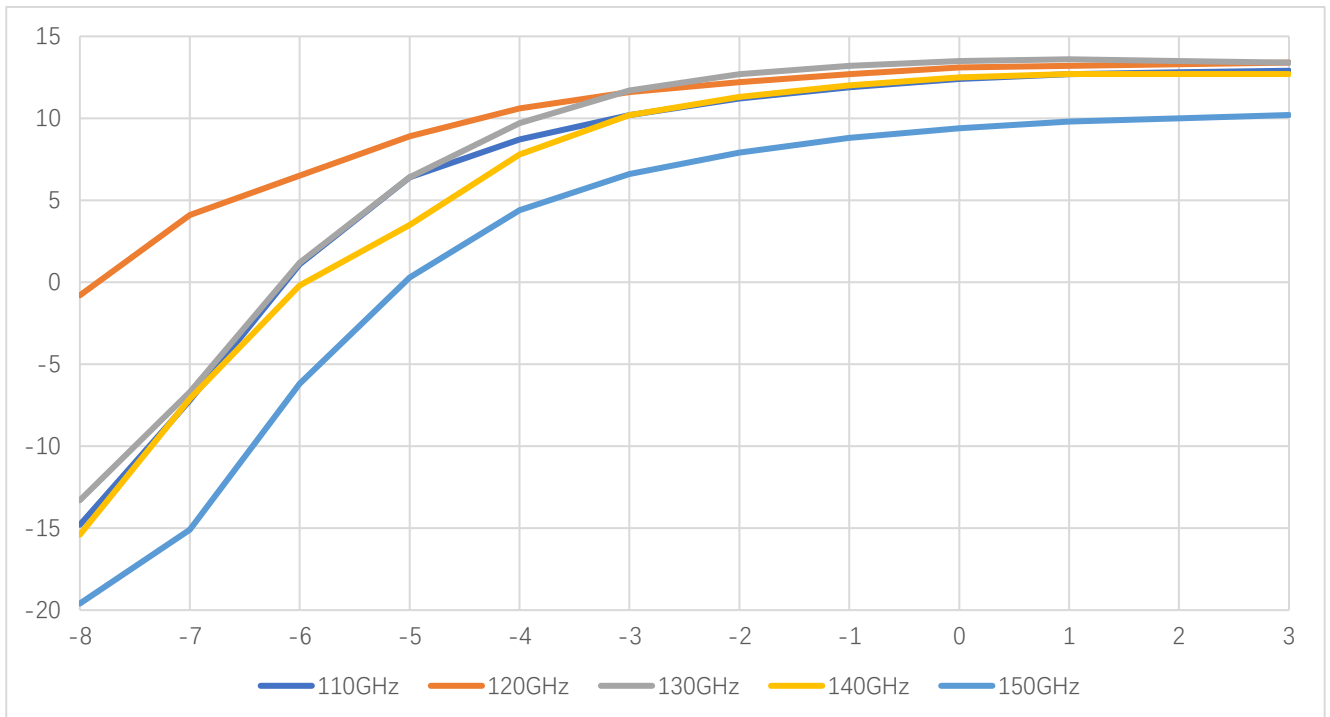
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## Test Data



Pout vs Frequency



Pout vs Pin



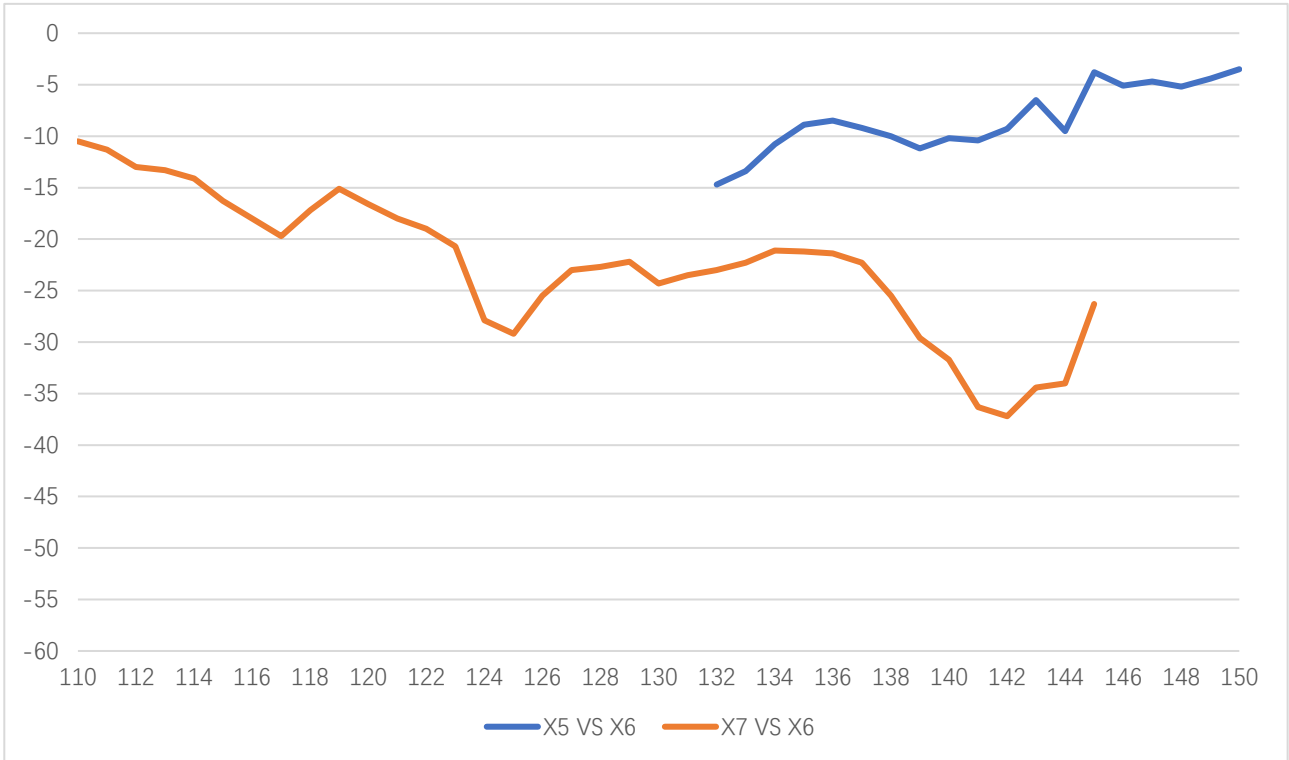
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X5/X7 Harmonics vs X6 Pout



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## Bench-Top D Band X6 Frequency Extender

### Dimension(mm)

The bottom of the bench-top product is with four support foot pads in default.  
Mounting bracket option is available according to request.

