

# AT-BTAM6-75110-12

Bench-Top W Band X6 Frequency Extender

## W Band (75-110GHz) Active Multiplier Bench-top Test Equipment, WR-10

### Product Overview



AT-BTAM6-75110-12 is full W band, active x6 frequency multiplier. The multiplier has an input frequency of 12.5-18.33 GHz with a typical output +12dBm from 75-110GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression. The input port is SMA female, and the output is a WR-10 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: 75-110GHz
- ✓ Pout: +12dBm typical
- ✓ Input: 12.5-18.3GHz, +3dBm
- ✓ Bench-Top Labs Test

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	+0	+3dBm	+10dBm
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power		+10 dBm	
Input Return Loss		-10dB	
X5/X7 Harmonics		-25dBc	
Power Supply	90V	110-220V	240V
Temp Spec		25C	



Shanghai AT Microwave Limited

Tel:021-6229 1233 sales@atmicrowave.com

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## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-10
Power Supply	90v to 220V AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Weight	1.6KG
Dimension	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Power 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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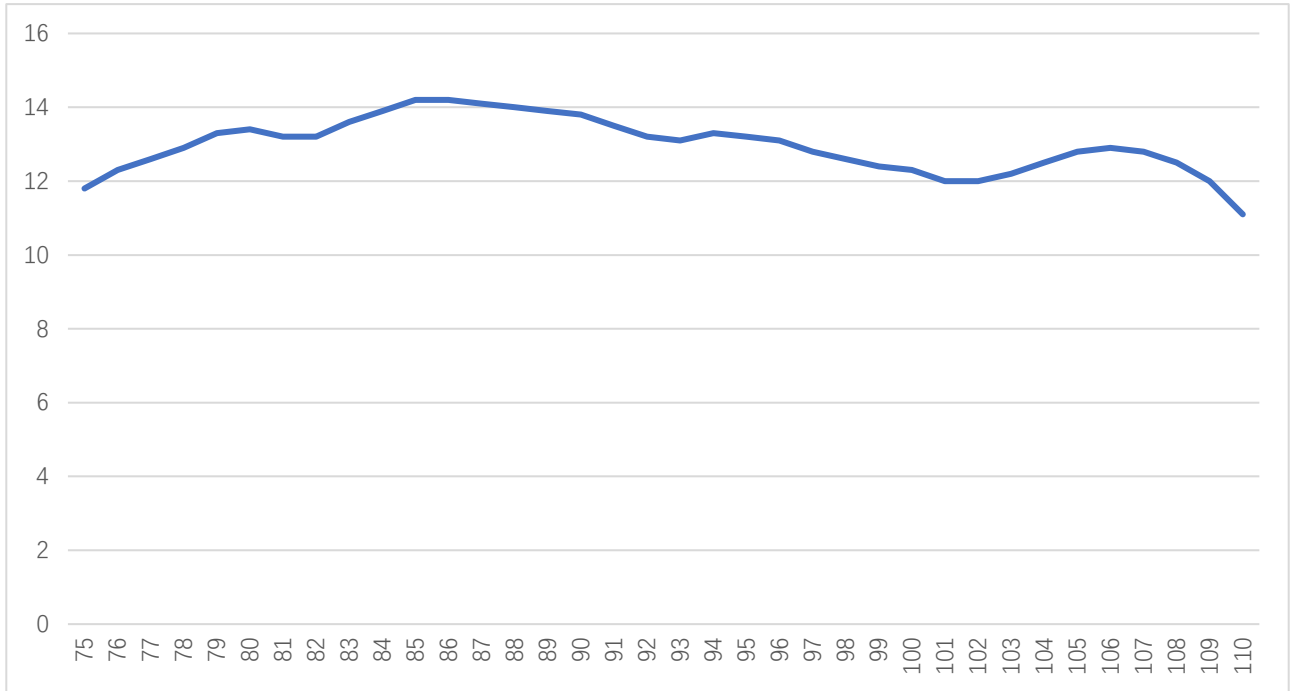


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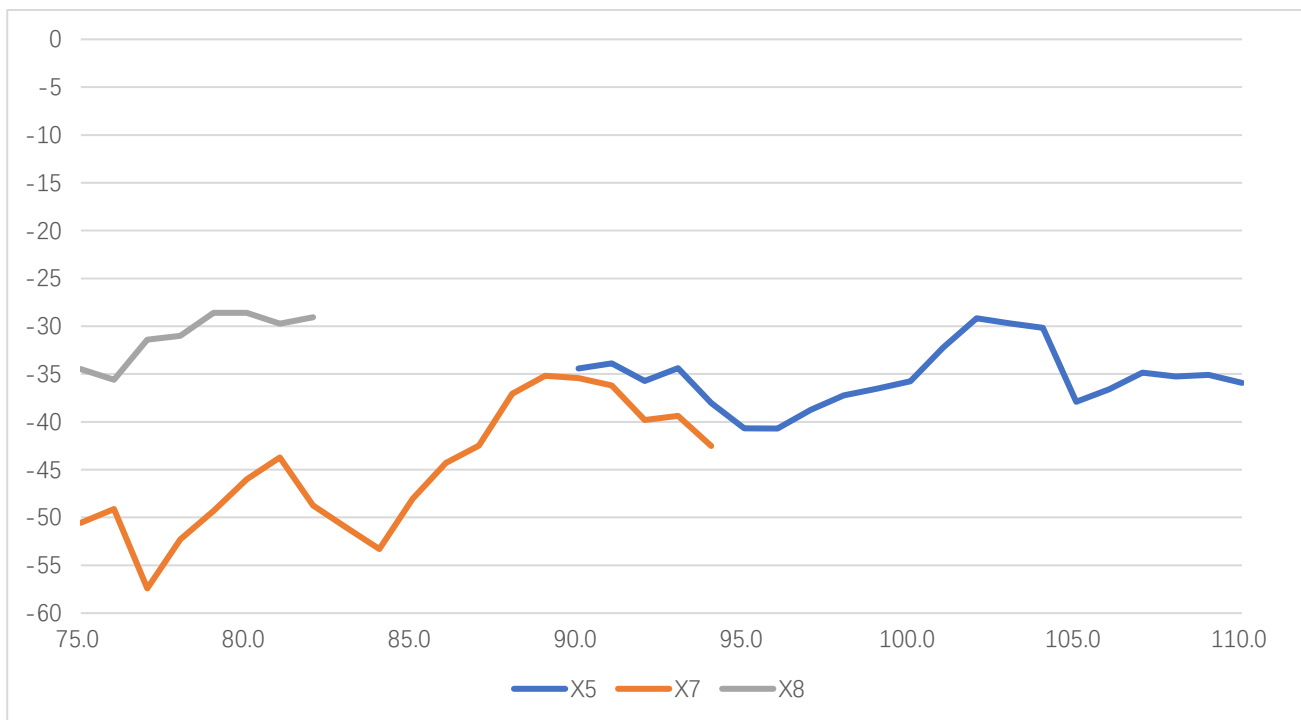
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### Test Data (25C)

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



Pout vs Frequency, Pin=+13dBm

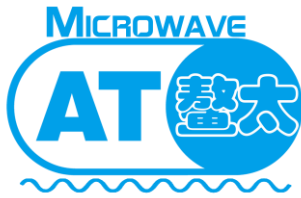


X5/X7/x8 Harmonics Suppression vs X6 Pout



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## Bench-Top W 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.

