

AT-BTAM6-75110-10

Bench-Top W Band X6 Frequency Extender

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



Product Overview

AT-BTAM6-75100-10 is full W band, active x6 frequency multiplier. The multiplier has an input frequency of 12.5-18.33 GHz with a typical output +10dBm from 75-110GHz. W Band isolator is an optional choice to improve power protection and power stability

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 flange.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 75-110GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 12.5-18.3GHz, +13dBm
- ✓ 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	+12	+13dBm	+15
Multiplier Factor		6	
Output Frequency	75GHz		110GHz
Output Power		+10 dBm	
Input Return Loss		-15dB	
Output Return Loss		-10dB	
X5/X7 Harmonics		-25dBc	
Power Supply		+12V/0.45A	
Temp Spec		25C	

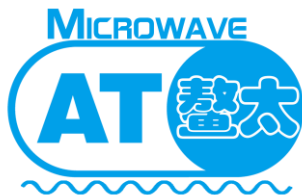
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Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-10
DC Bias	2.5mm DC Jack with +12V Supply AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Weight	1.6KG
Dimension	See outline

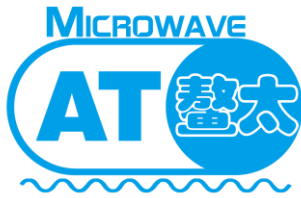
Absolute Maximum Ratings Table

Parameter	Value
Power Supply	+90 to 260V
IF Input Power	+20dBm
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.



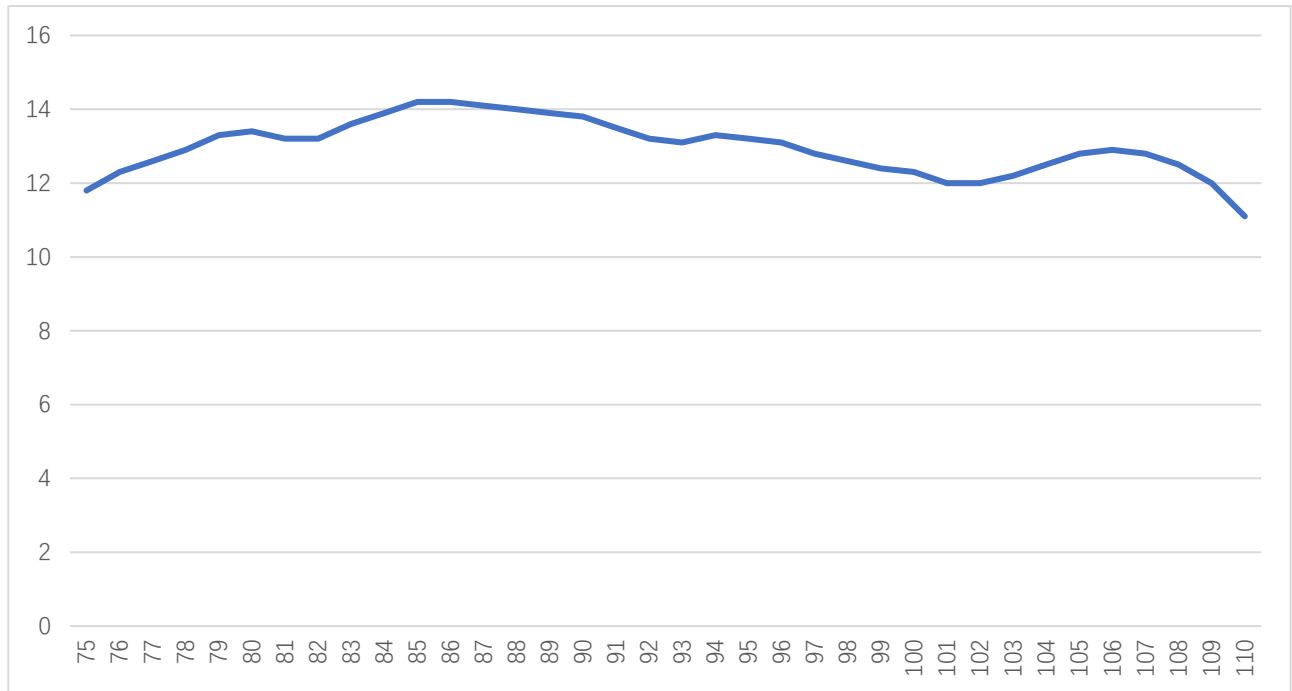


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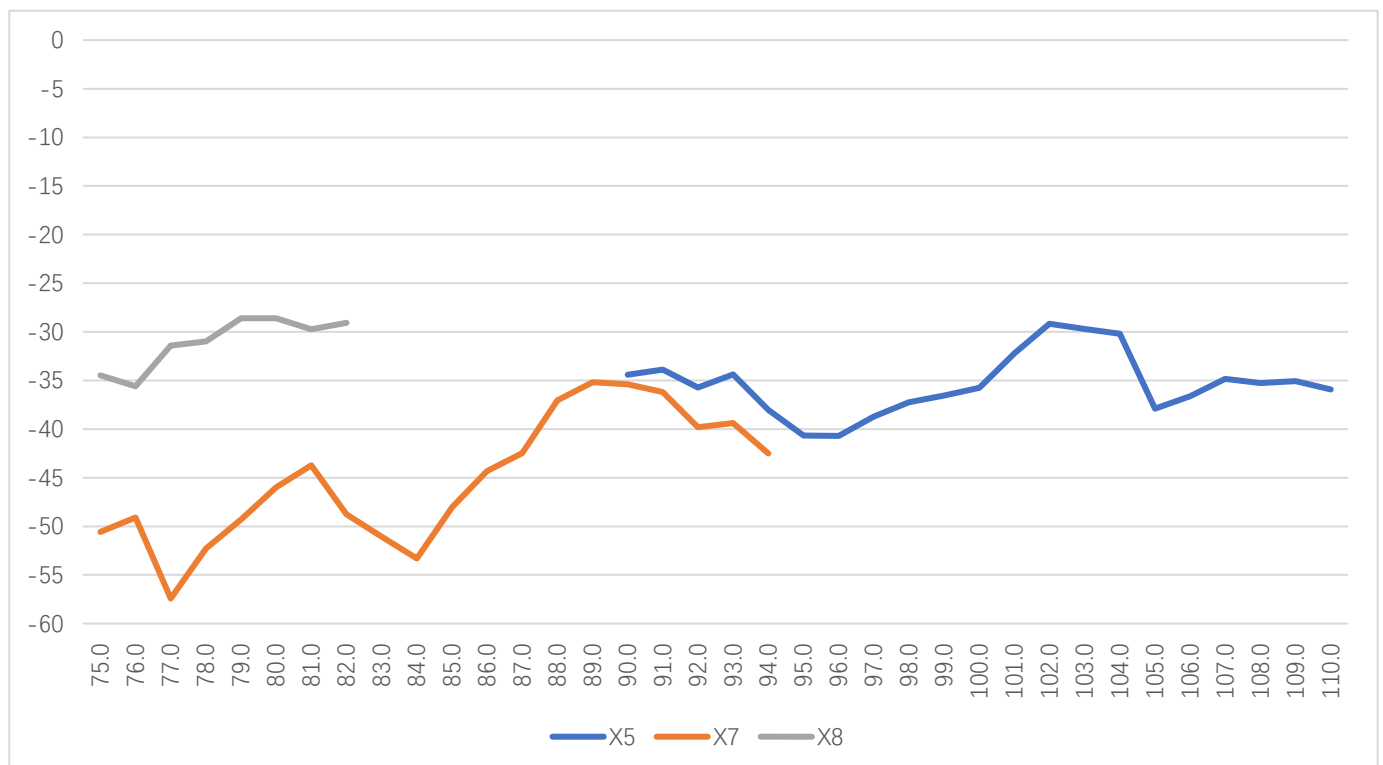
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Test Data (25C)

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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Dimension: (mm)

