



AT-AM6-75110-10

Active Multiplier x6, 75-110GHz Pout=+10dBm

2020-09-27

Full W Band Active Multiplier



Description:

AT-AM6-75110-10 is a 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.

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 WR-10. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 12.5-18.33GHz
- ✓ Low Harmonics

Application

- ✓ W band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	+9	+11dBm	+13
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power	+8dBm	+10dBm	
Harmonic Suppression		-25dBc	
Drain Voltage		+5V/350mA	+8V
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	200g
Size:	60X30X20 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.

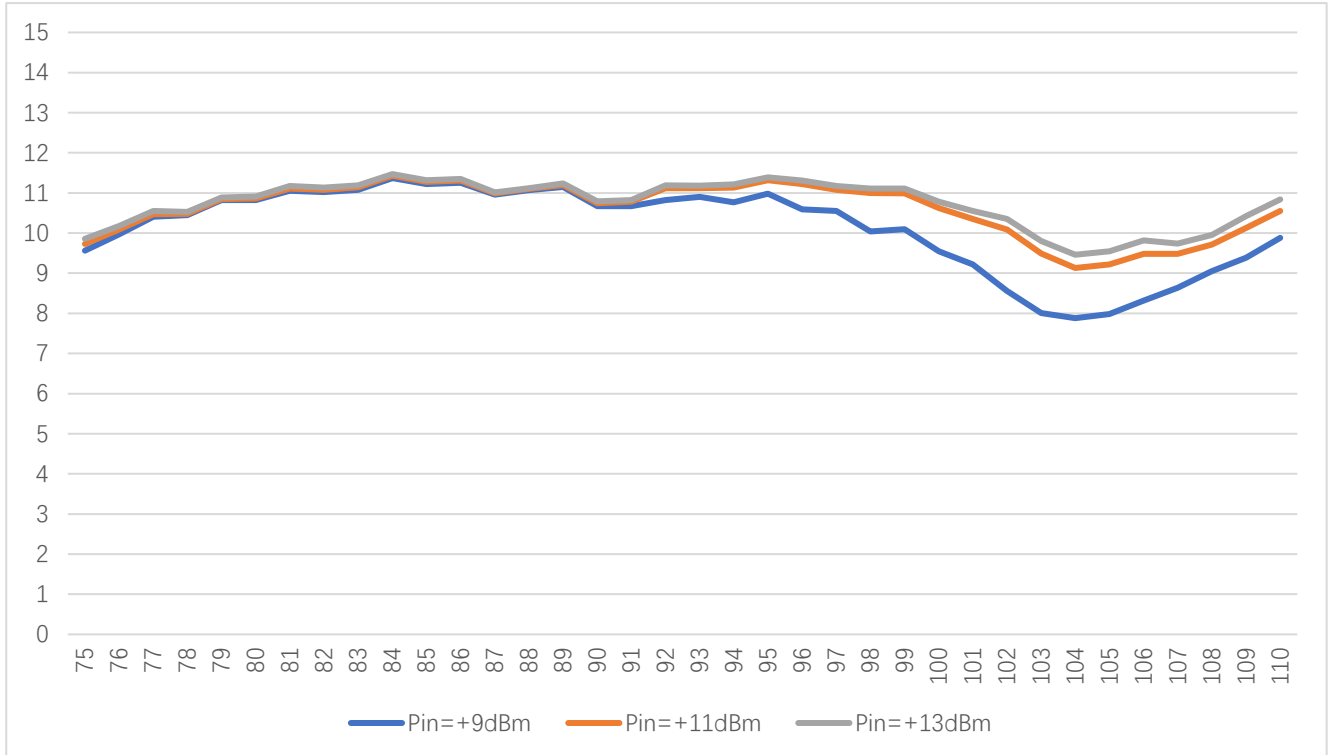




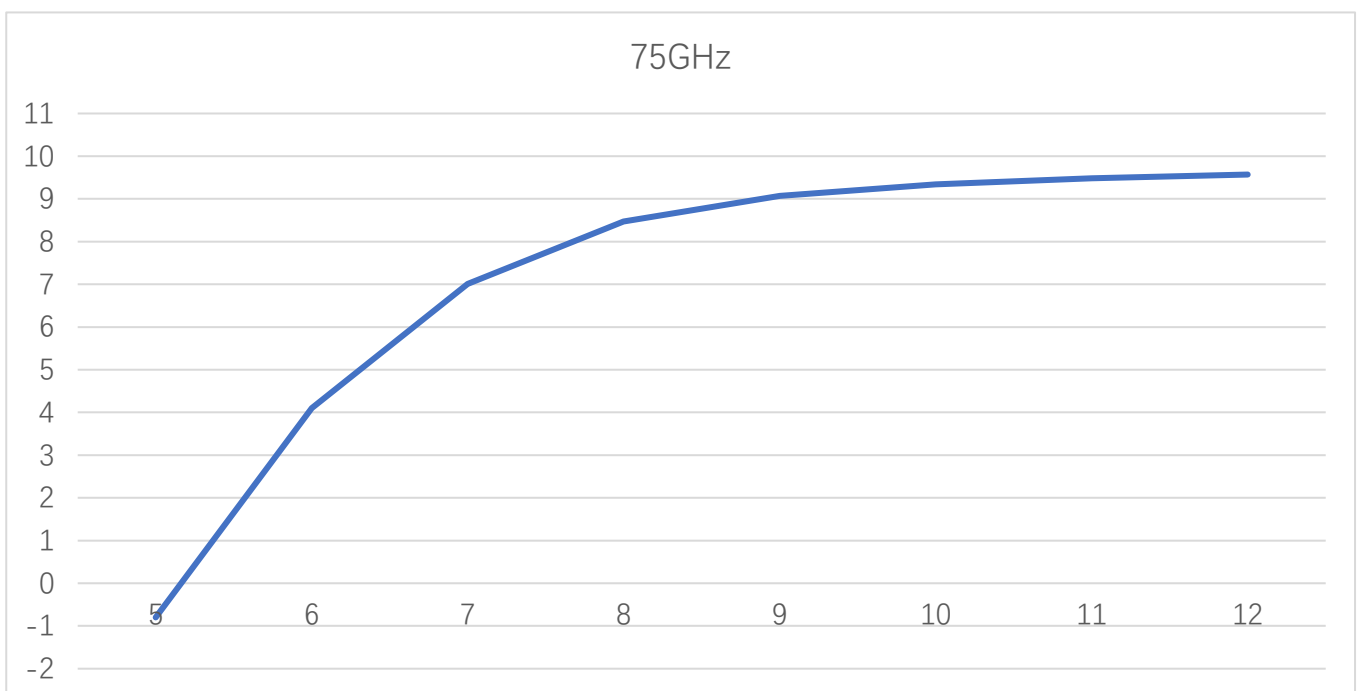
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Test Data

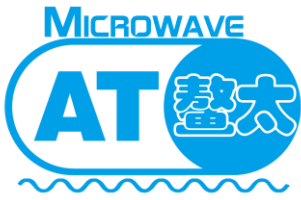


Pout vs Frequency at Pin=+9/+11/+13dBm



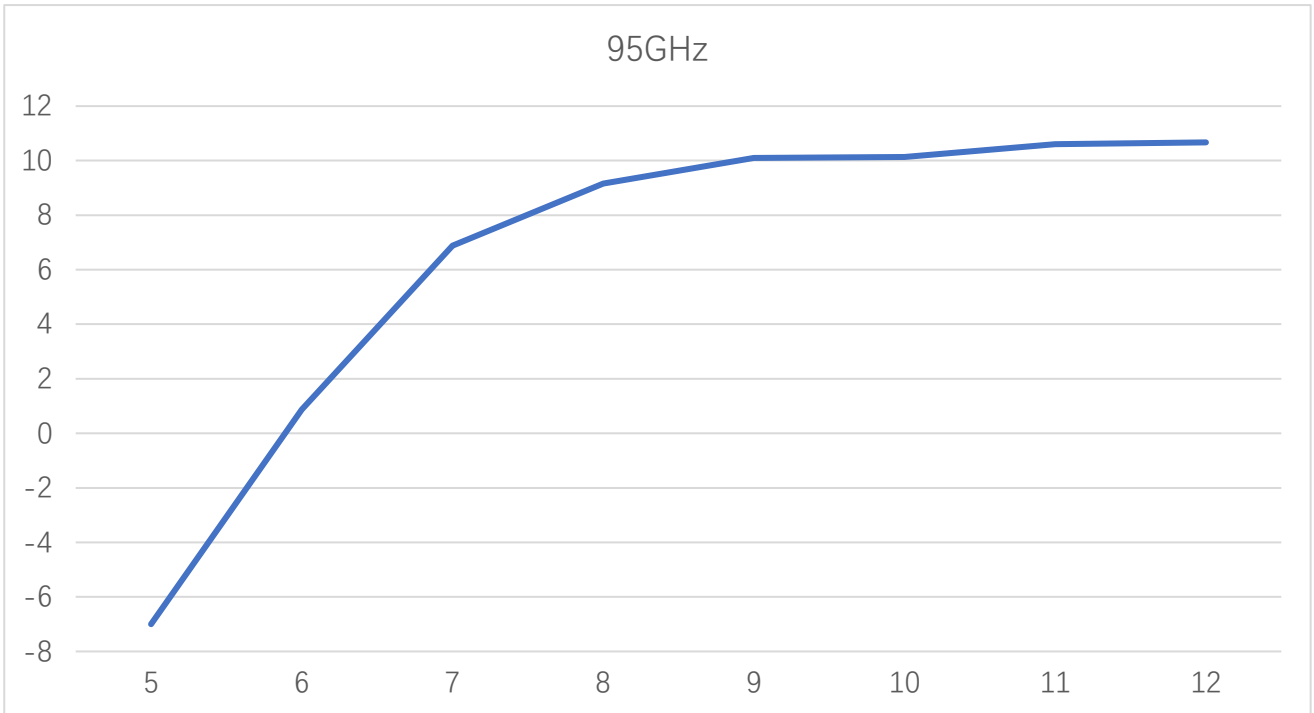
Pout vs Pin at 75GHz



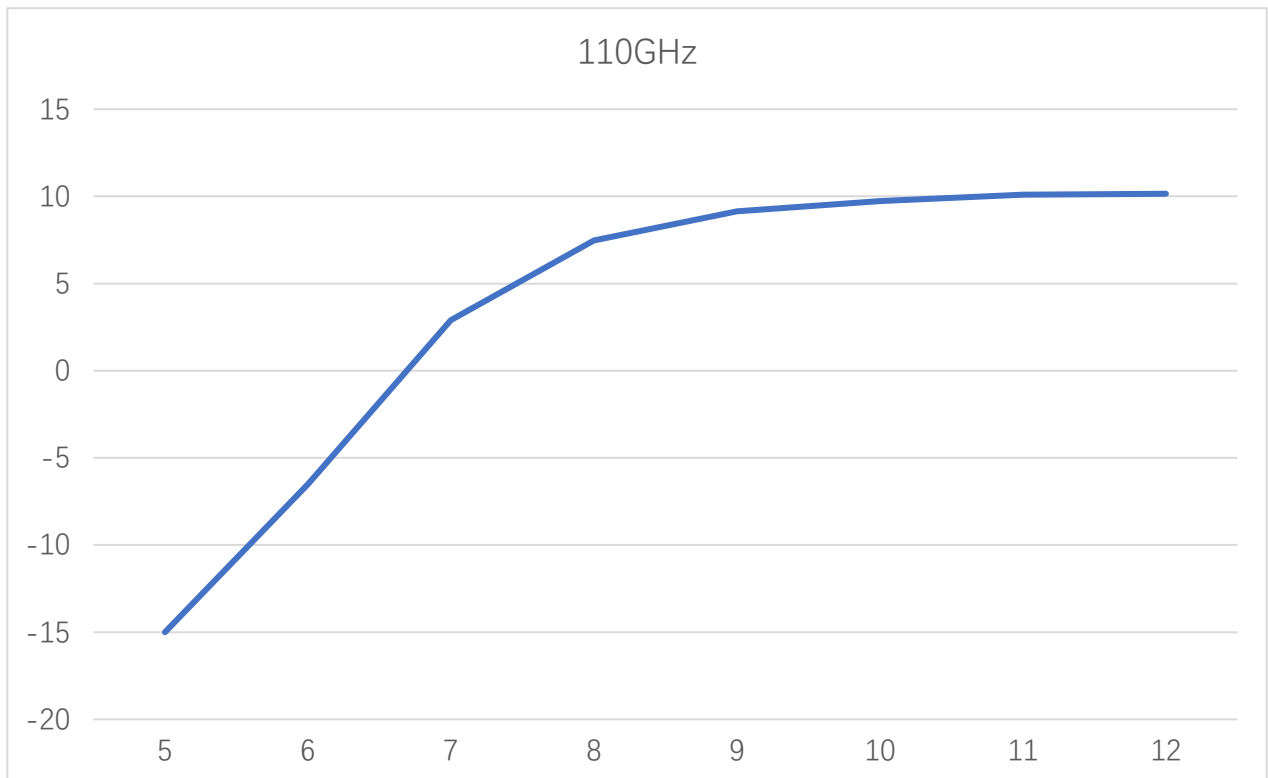


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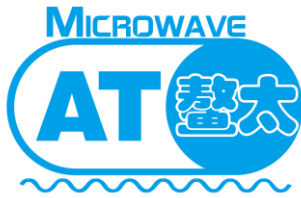


Pout vs Pin at 95GHz



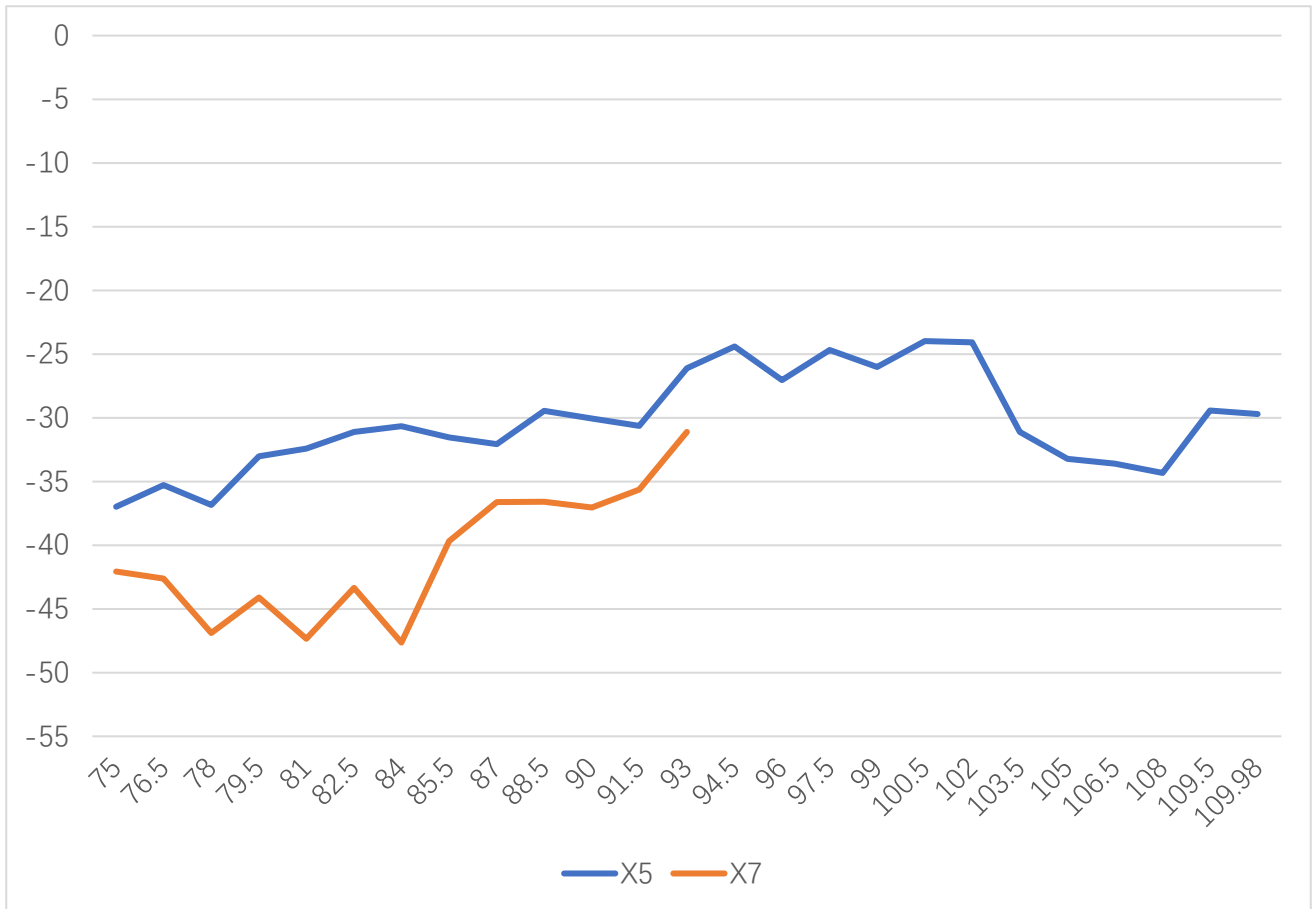
Pout vs Pin at 110GHz





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X5/X7 Harmonics Suppression vs X6 Pout



Dimension (unit in mm)

