

AT-AM6-6090-17L

Active Multiplier x6, 60-90GHz Pout=+17dBm

Full E Band Active Multiplier Pout=+17dBm, Low Input Power

2023-11-21



Description:

AT-AM6-6090-17L is a full E band, active x6 frequency multiplier with low input power. The multiplier has an input frequency of 10-15 GHz with a typical output +10dBm from 60-90GHz.

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-12. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 60-90GHz
- ✓ Pout: +17dBm typical
- ✓ Input: 10-15GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	10GHz		15GHz
Input Power	0dBm	+3dBm	+5dBm
Multiplier Factor		X6	
Output Frequency	60GHz		90GHz
Output Power	+14.5dBm	+17dBm	
X5/x7 Suppression vs X6		-20dBc	
Drain Voltage		+5V	+8V
Idd/Current		380mA	
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12 Waveguide with UG-387/U anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

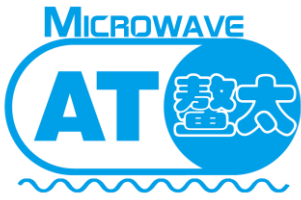
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

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.

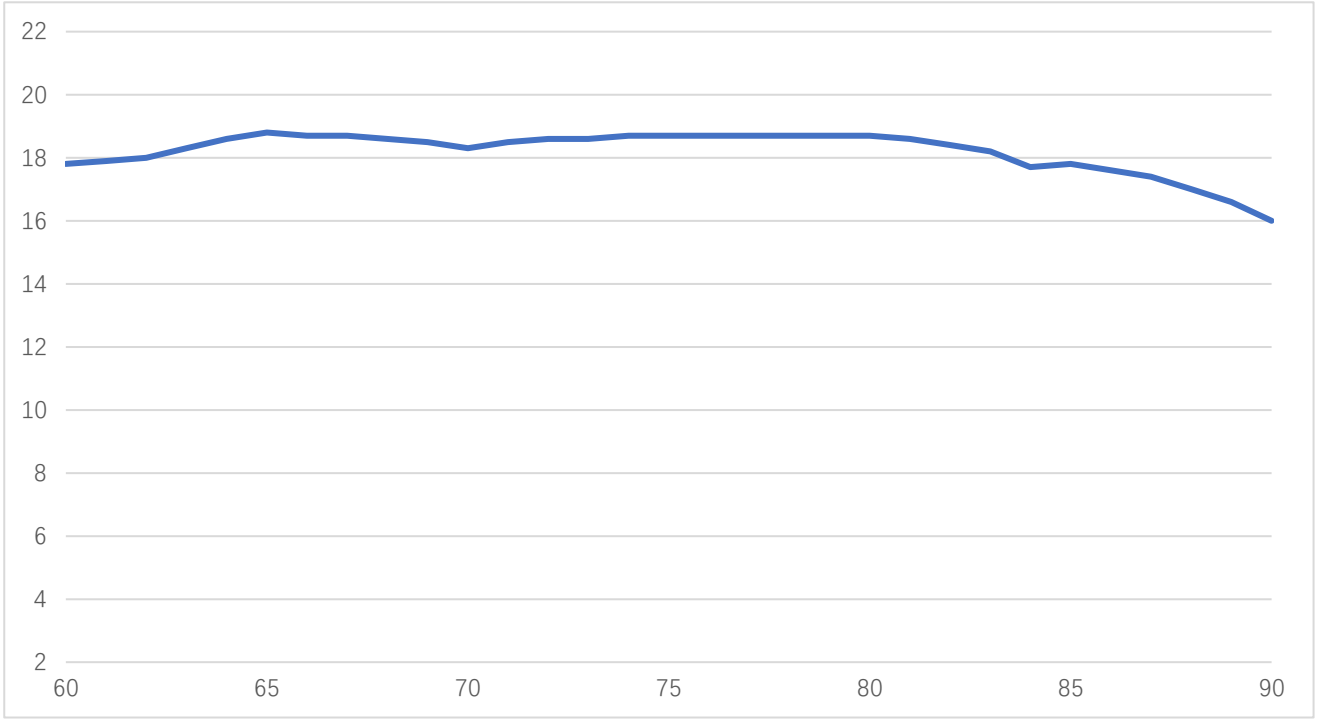




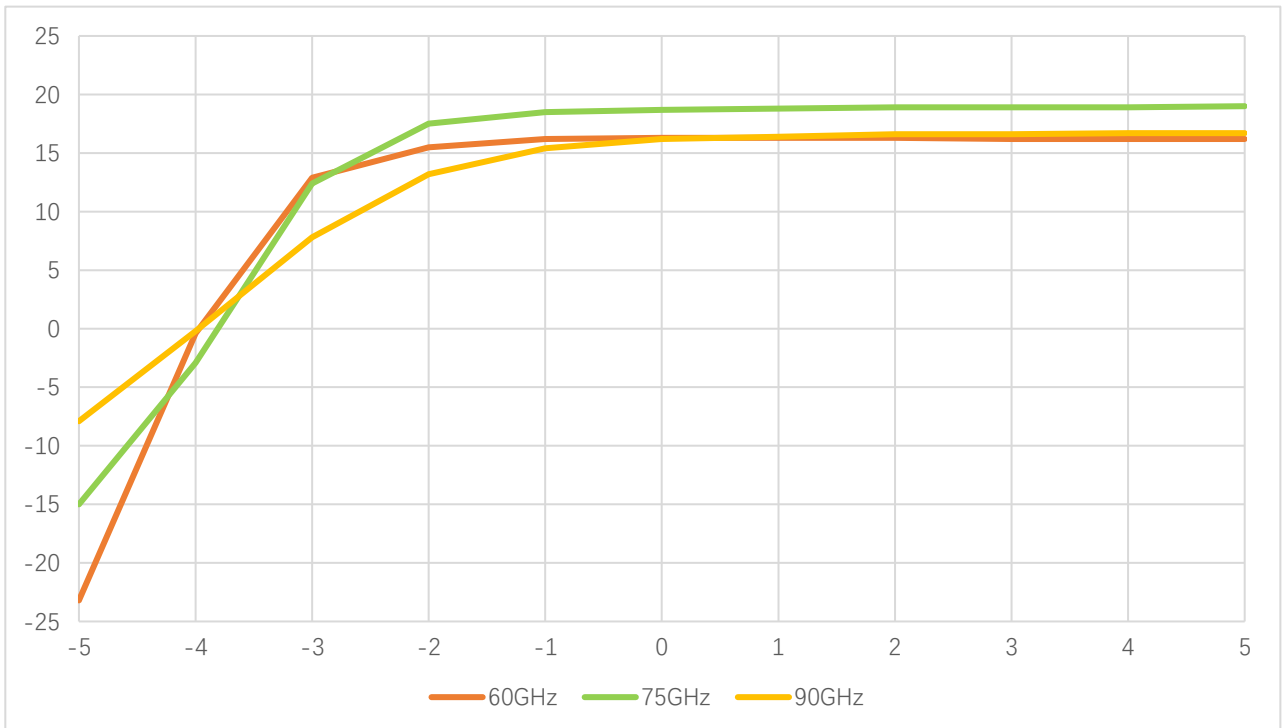
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Test Data(25C)

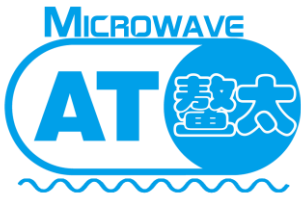


Pout vs Frequency



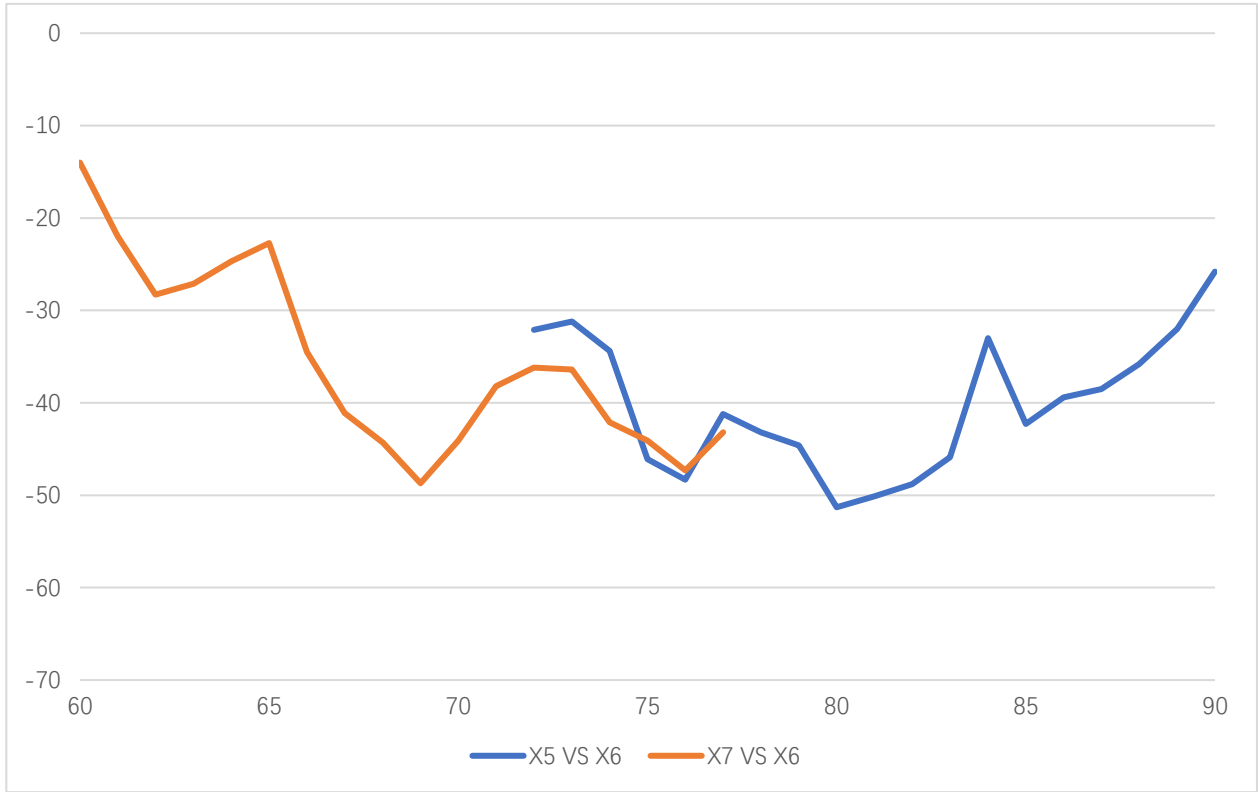
Pout vs Pin





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X5/X7 Harmonics vs X6 Pout



Dimension (unit in mm)

