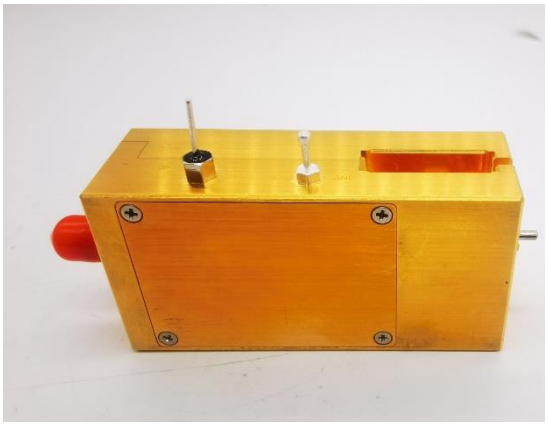
AT-AM6-5590-12

Active Multiplier x6, 55-90GHz Pout=+12dBm

Full E Band, X6 Active Multiplier
55-90GHz, Pout=+12dBm, WR-12



Description:

AT-AM6-5590-12 is a full E band, active x6 frequency multiplier. The multiplier has an input frequency of 9.17-15 GHz with a typical output +12dBm from 55-90GHz.

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: 55-90GHz
- ✓ Pout: +12dBm typical
- ✓ Input: 9.17-15GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	9.17GHz		15GHz
Input Power	+10dBm	+13dBm	+15dBm
Multiplier Factor		X6	
Output Frequency	55GHz		90GHz
Output Power	+10dBm	+12dBm	
Harmonic Suppression		-15dBc	
Drain Voltage		+5V/350mA	+8V
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	190g
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.

Part Number Selection Guide

Part Number	Description
AT-AM6-5590-12	High Input driver +13dBm
AT-AM6-5590-12L	Low Input diver option, +3dBm. Recommended

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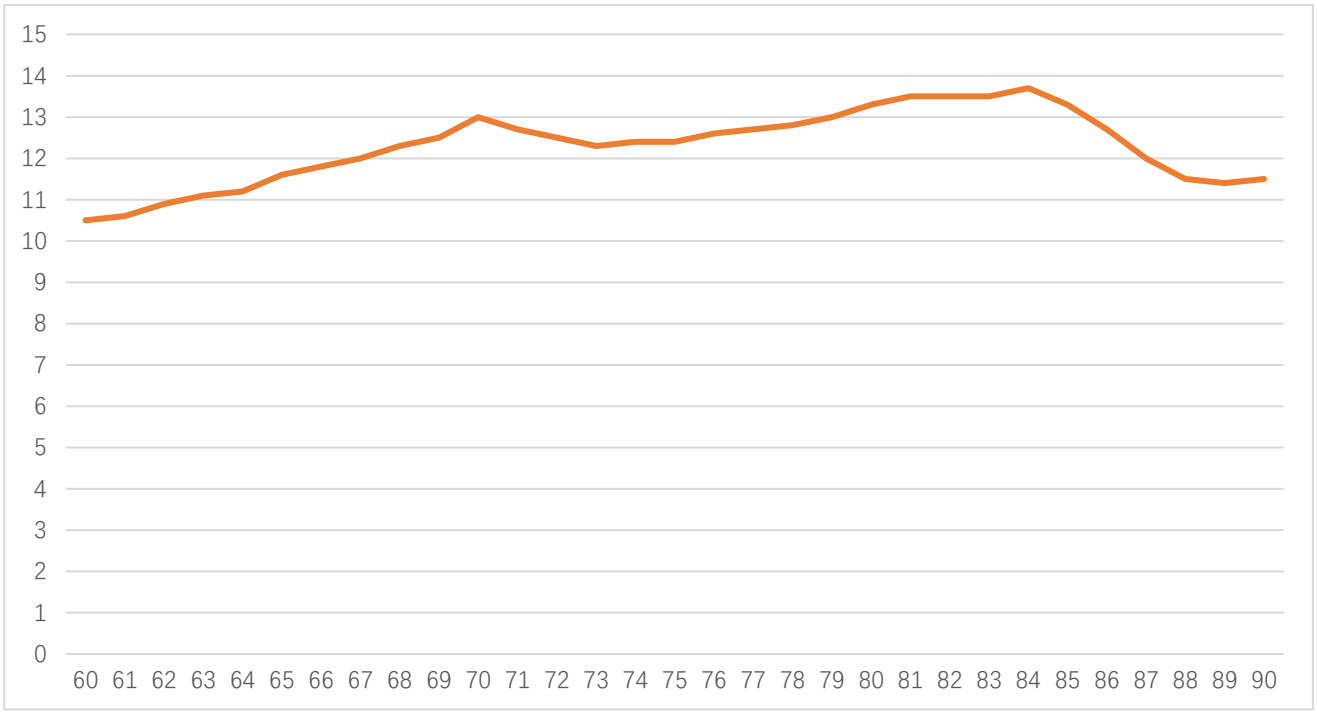
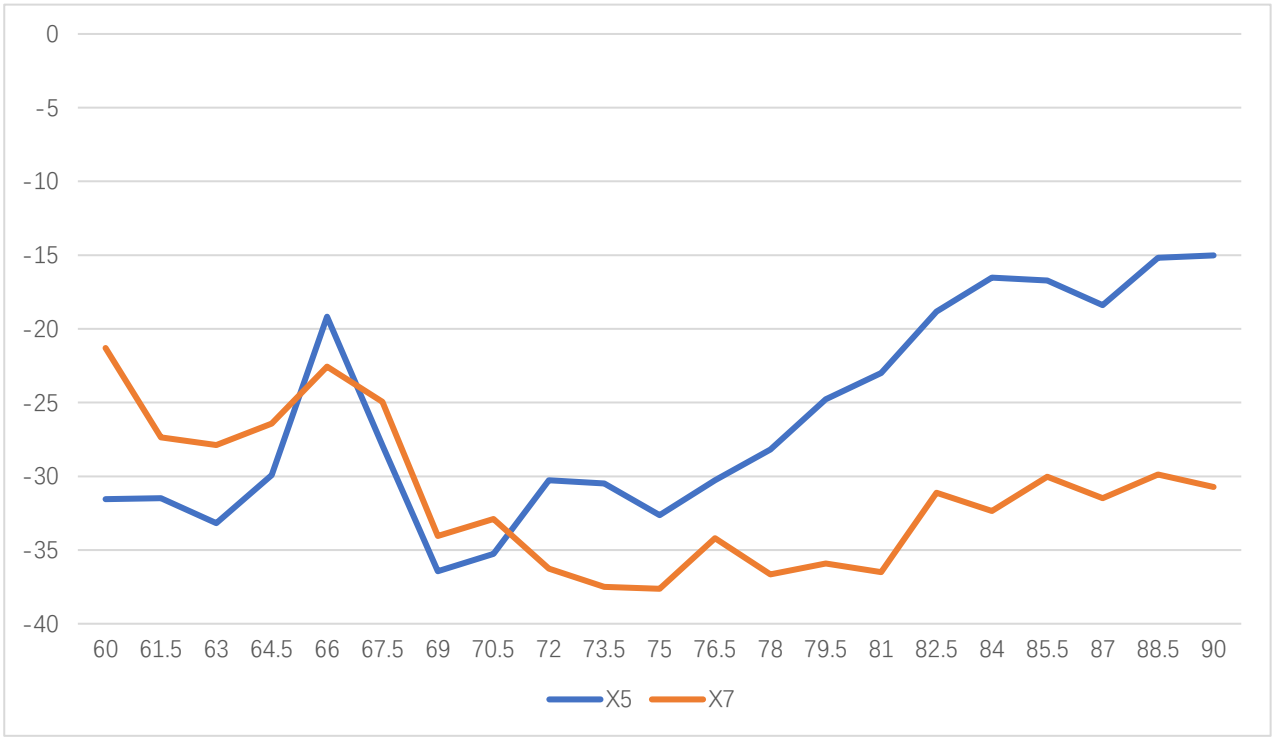
Test Data (25C)

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



Pout vs Frequency



X5/X7 Harmonics suppression vs X6 Pout

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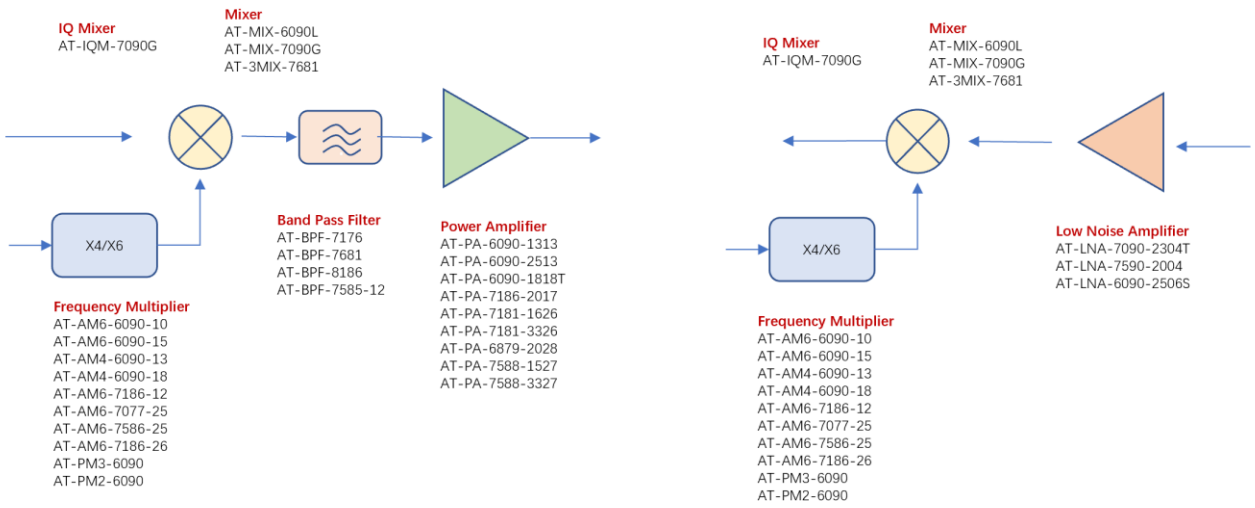
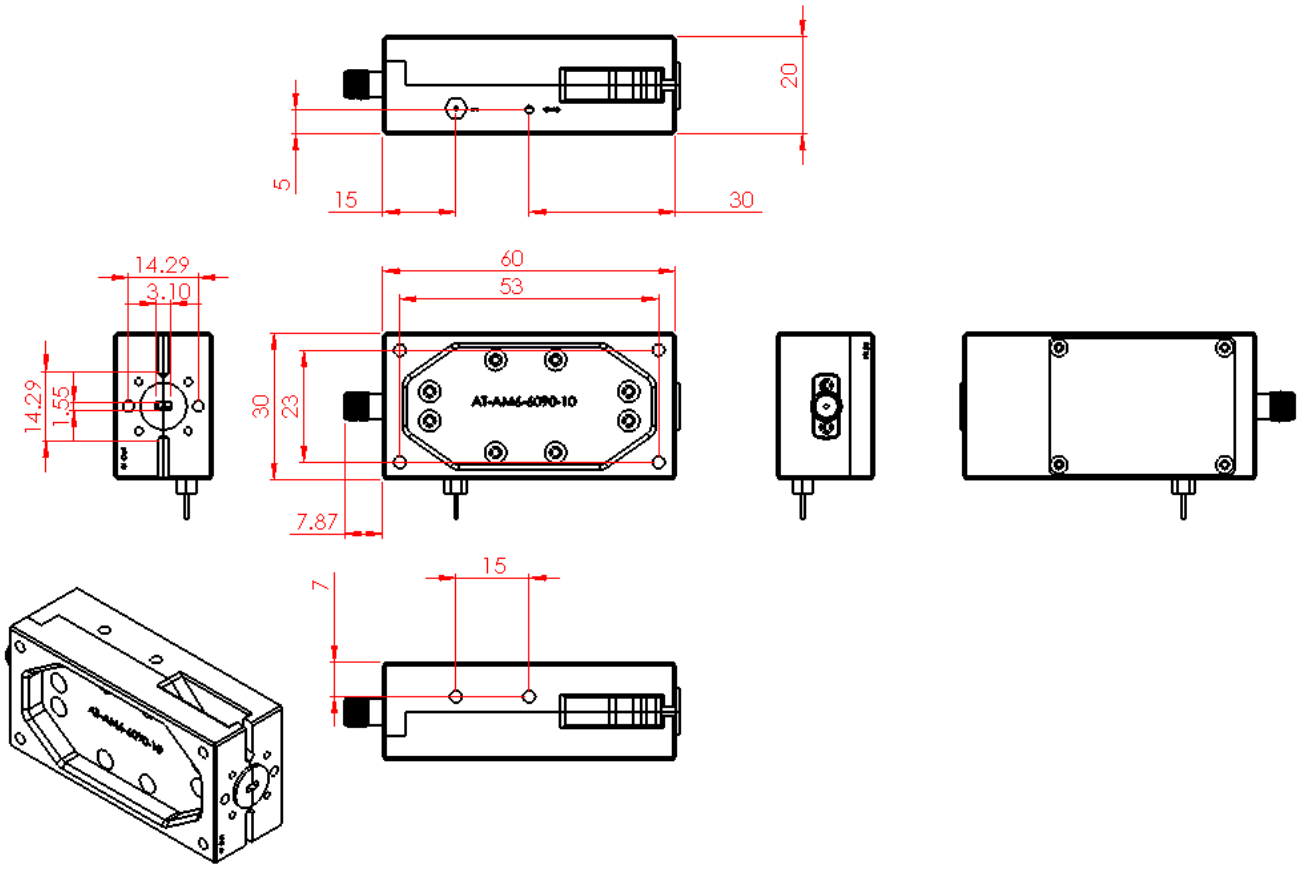
E Band 60-90GHz



Dimension (unit in mm)



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