

Full W Band Active Multiplier

2020-9-23



Description:

AT-AM6-75110-05T 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 +5dBm 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.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: +5dBm typical
- ✓ Input: 12.5-18.33GHz,
- ✓ Input Power:+18dBm
- ✓ Low Harmonics

Application

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

Electrical Specifications:

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	+16	+18dBm	+19
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power		+5dBm	
X5/X7Harmonic Suppression		-10dBc	
Drain Voltage		+5V	
Idd Current		100mA	
Spec Temp		25C	





AT-AM6-75110-05T

Active Multiplier x6, 75-110GHz Pout=+5dBm

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	130g
Size:	40X25X20 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
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.

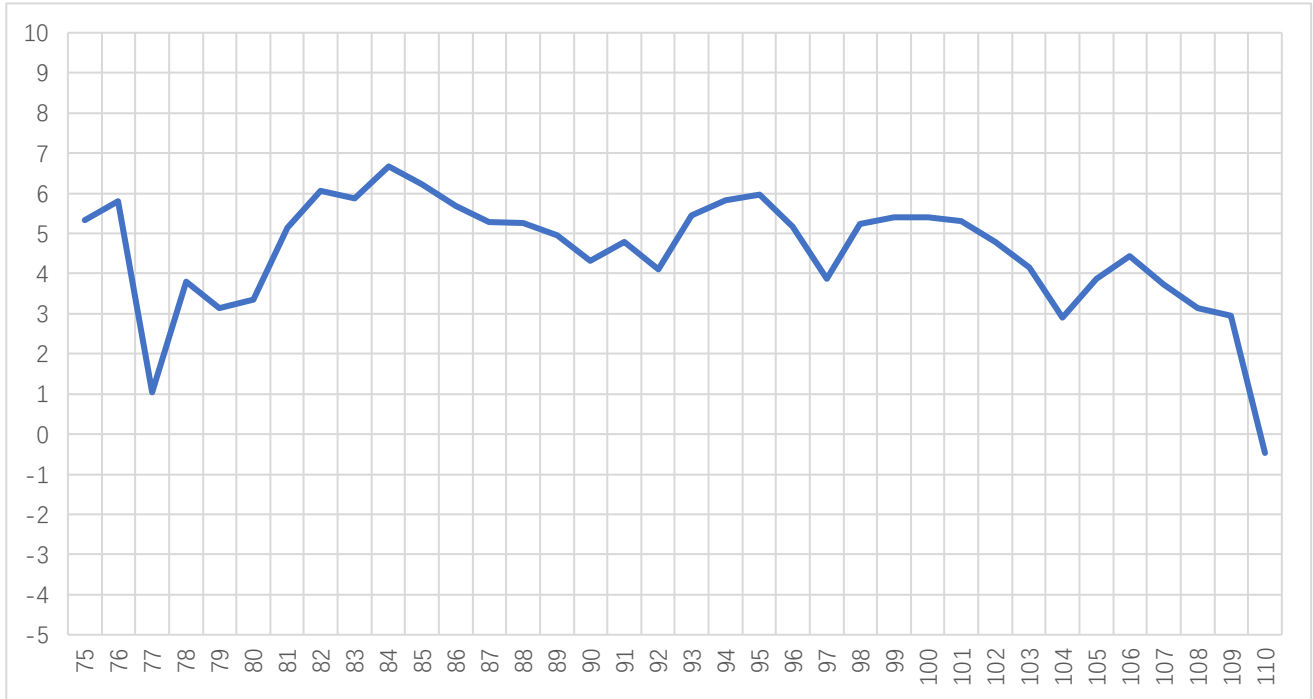




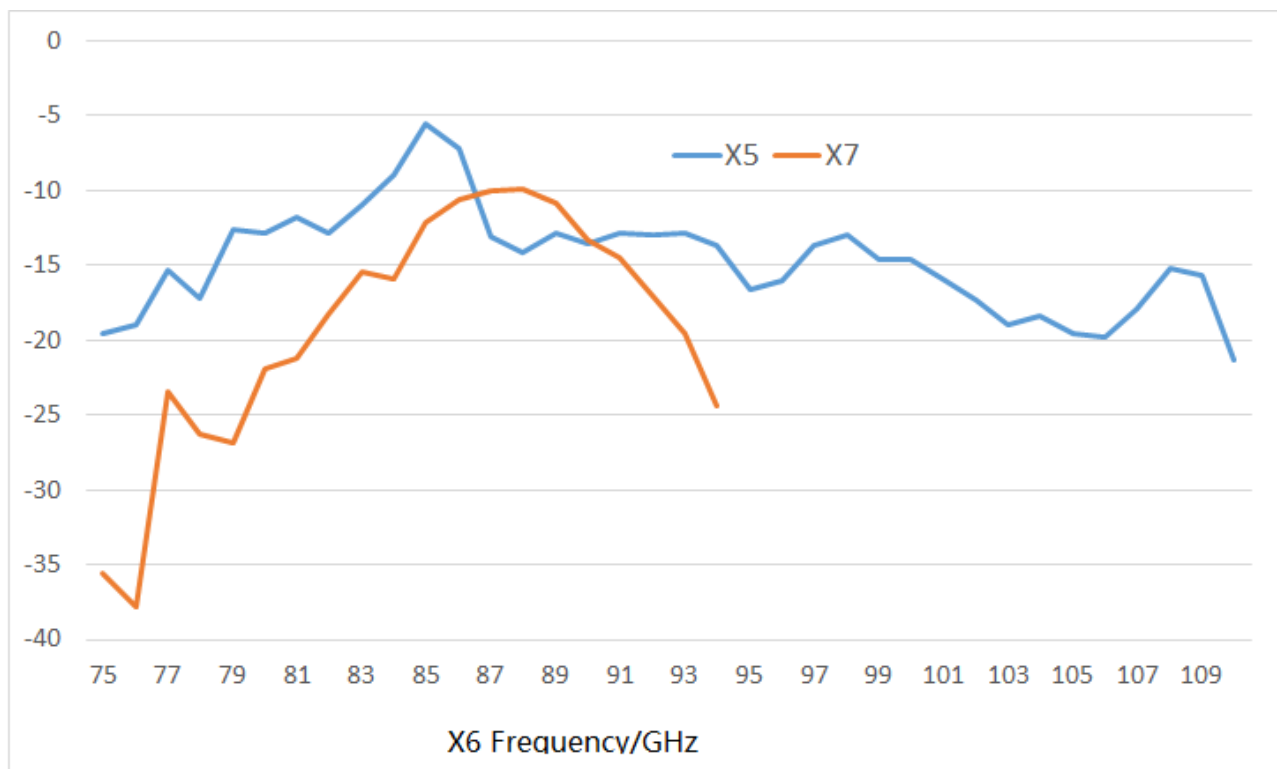
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Active Multiplier x6, 75-110GHz Pout=+5dBm

Test Data: Input power=+17dBm, 25C



Pout vs Frequency



X5/X7 Harmonics vs X6 Pout



Dimension (unit in mm)

