

Full W Band Passive Multiplier

2022-6-1



Description:

AT-PM2-75110C is a full W band, passive frequency multiplier. The multiplier has an input frequency of 37.5-55 GHz with a typical output +1dBm from 75-110GHz when Pin=+18dBm.

The multiplier also has a typical harmonic suppression. The input port is 1.85mm, and the output is WR-10. Other port configurations are available under different requirement. Both AT-AM4-3567-18XC and AT-AM4-3567-18XC2 can be used as LO driver for this passive multiplier.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: +1dBm typical
- ✓ Input: 37.5-55GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		37.5-55GHz	
Input Power	+17	+18dBm	+20dBm
Multiplier Factor		X2	
Output Frequency		75-110GHz	
Conversion Loss		-16dB	-20dB
Pout at Pin=+18dBm		+2dBm	
Harmonic Suppression		-25dBc	
Drain Voltage		NO	
Spec Temp		25C	





AT-PM2-75110C

Passive Multiplier x2, 75-110GHz

Mechanical Information

Item	Description
Input Port	1.85mm Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+23dBm
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.

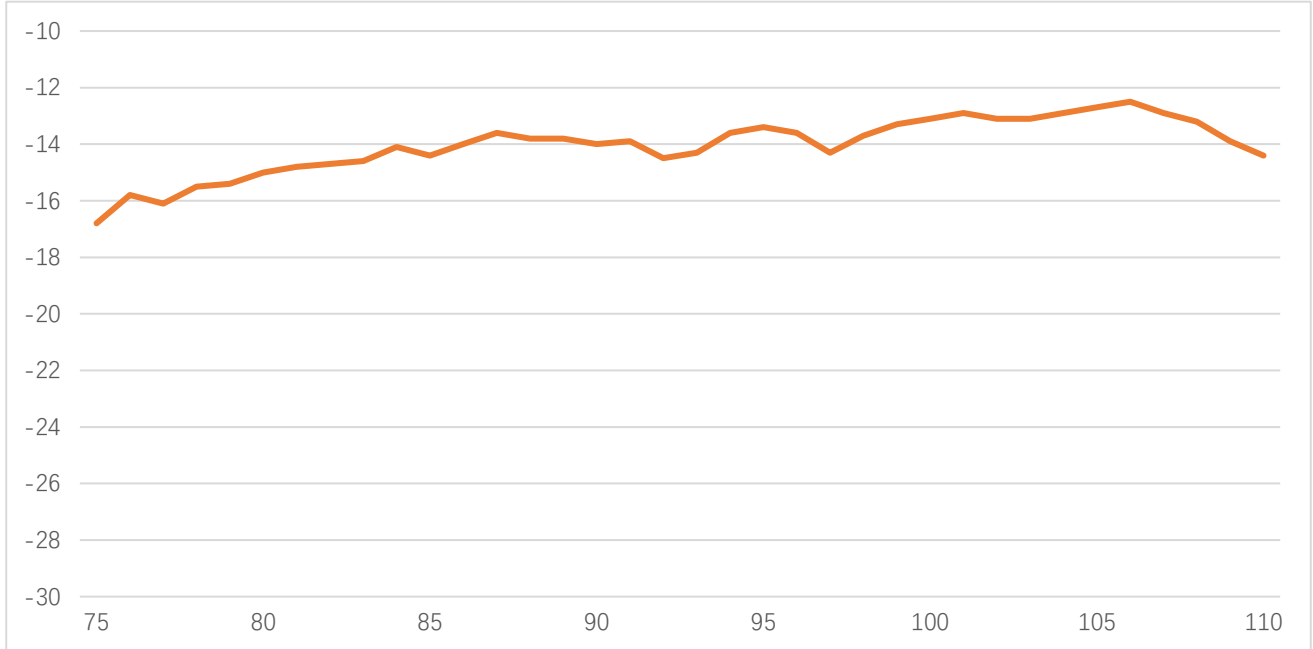




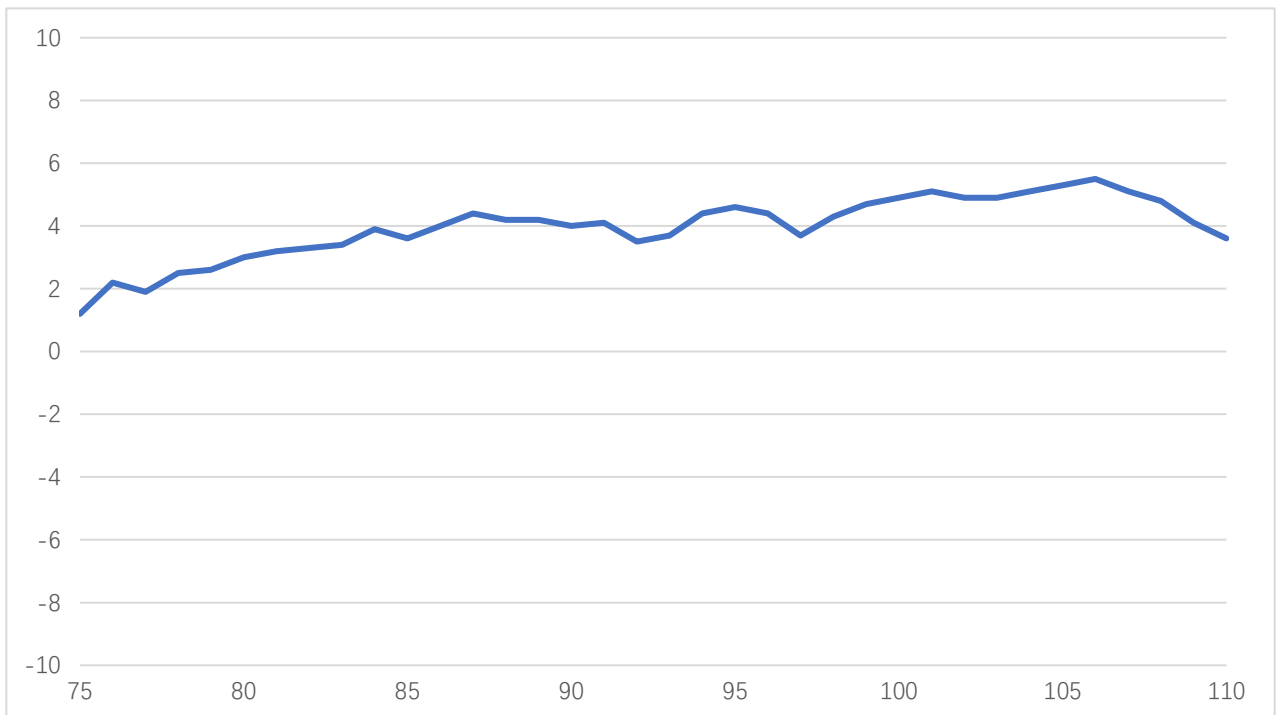
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Test Data



Insertion Loss vs Frequency



Pout vs Frequency, Pin=+18dBm



Dimension

