

Full W Band Passive Multiplier



Description:

AT-PM3-75110M is a full W band, passive frequency multiplier. The multiplier has an input frequency of 25-36.66 GHz with a typical output -3dBm from 75-110GHz.

The multiplier also has a typical harmonic suppression. The input port is 2.92mm female, and the output is WR-10. Other port configurations are available under different requirement.

AT-AM2-1844-20XC can be used as a driver for this passive module.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: -3dBm typical
- ✓ Input: 25-36.66GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	25GHz		36.66GHz
Input Power	+15	+17dBm	+20dBm
Multiplier Factor		X3	
Output Frequency	75GHz		110GHz
Conversion Loss		-20dB	
Pout (Pin=+17dBm)		-3dBm	
Pout (AT-AM2-1844-20XC)		0dBm	
Harmonic Suppression		-15dBc	
Drain Voltage		NO	
Spec Temp		25C	





AT-PM3-75110M

Passive Multiplier x3, 75-110GHz

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	65g
Size:	25x25x20 mm

Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+22dBm
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.

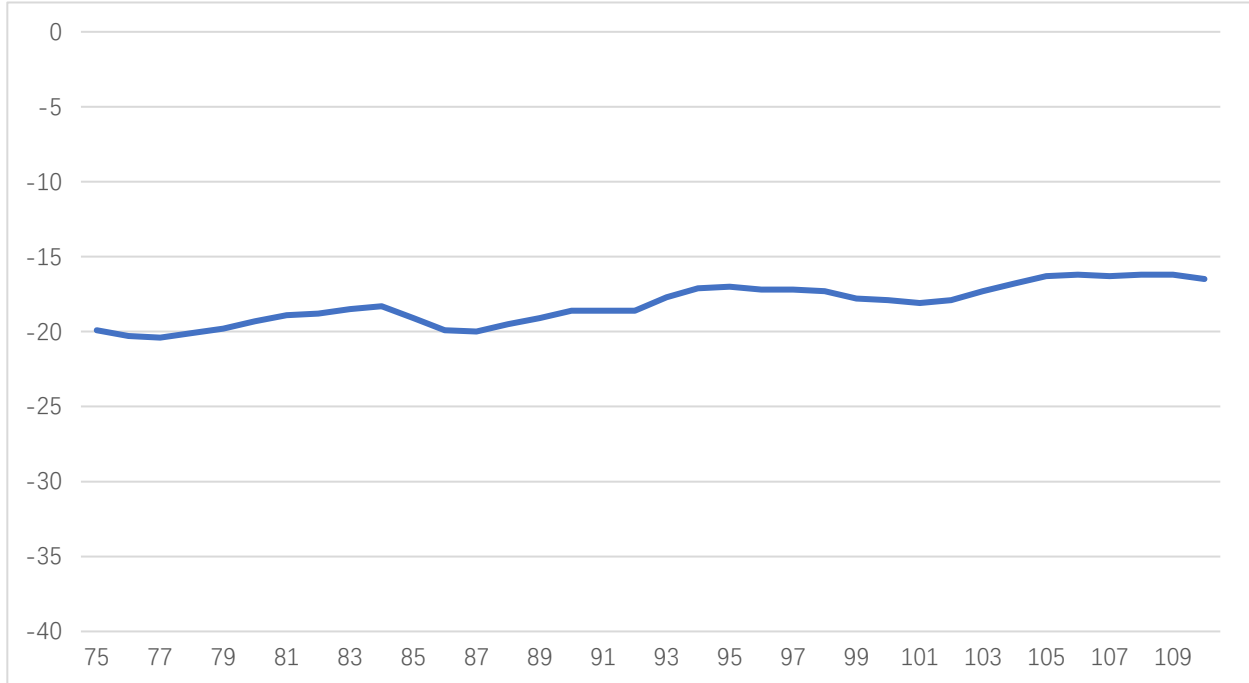




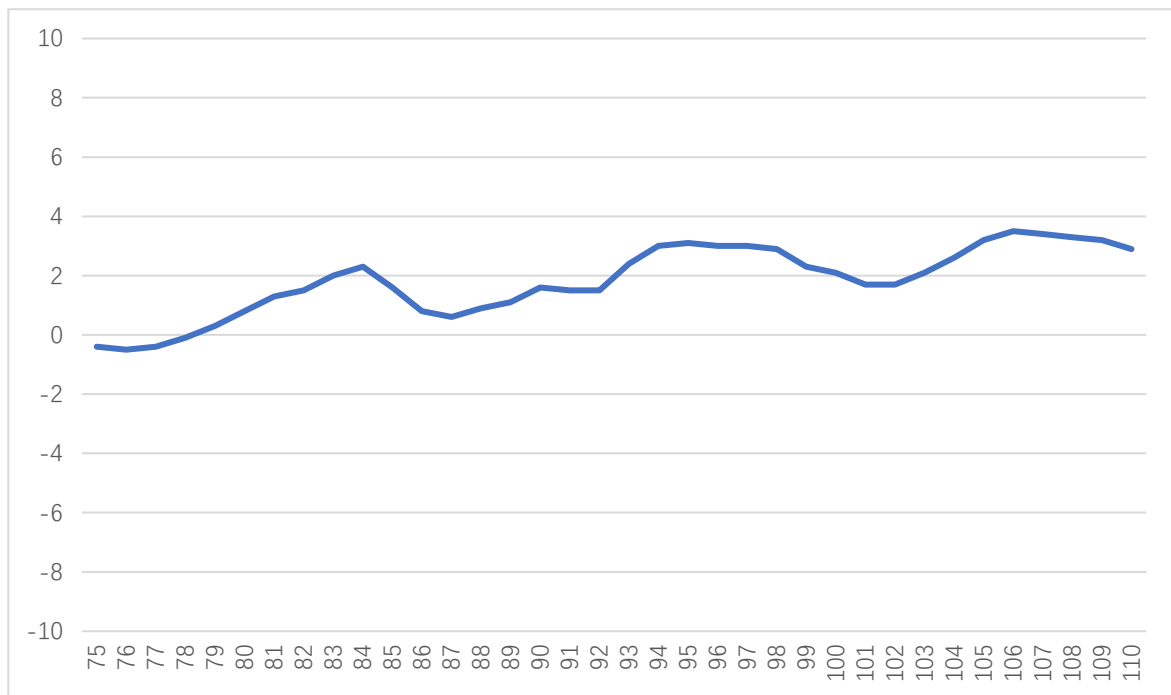
AT-PM3-75110M

Passive Multiplier x3, 75-110GHz

Test Data:



Conversion Loss vs Frequency



Pout vs Frequency using AT-AM2-1844-20XC as Driver



Dimension(mm)

