AT-AM6-75110-20GNL

Active Multiplier x6, 75-110GHz Pout=+20dBm

Full W Band Active Multiplier 75-110GHz, Pout=+20dBm, WR-10

2025-1-1

Description:

AT-AM6-75110-20GNL 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 +20dBm 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. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Pout: +20dBm typical
- ✓ Input: 12.5-18.33GHz, +3dBm
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	-3dBm	+0dBm	+5dBm
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power	+20dBm	+23dBm	
X5/X7 Harmonic Suppression		-15dBc	
Drain Voltage		+12V	+13V
Current/Quiescent		0.19A	
Current/Psat		0.55A	
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-10
Case Material	Copper
Finish	Gold Plated
Weight	TBD
Size:	See outline

Absolute Maximum Ratings Table

Parameter	**Value**
Drain Supply	+15V
RF Input Power	+10dBm
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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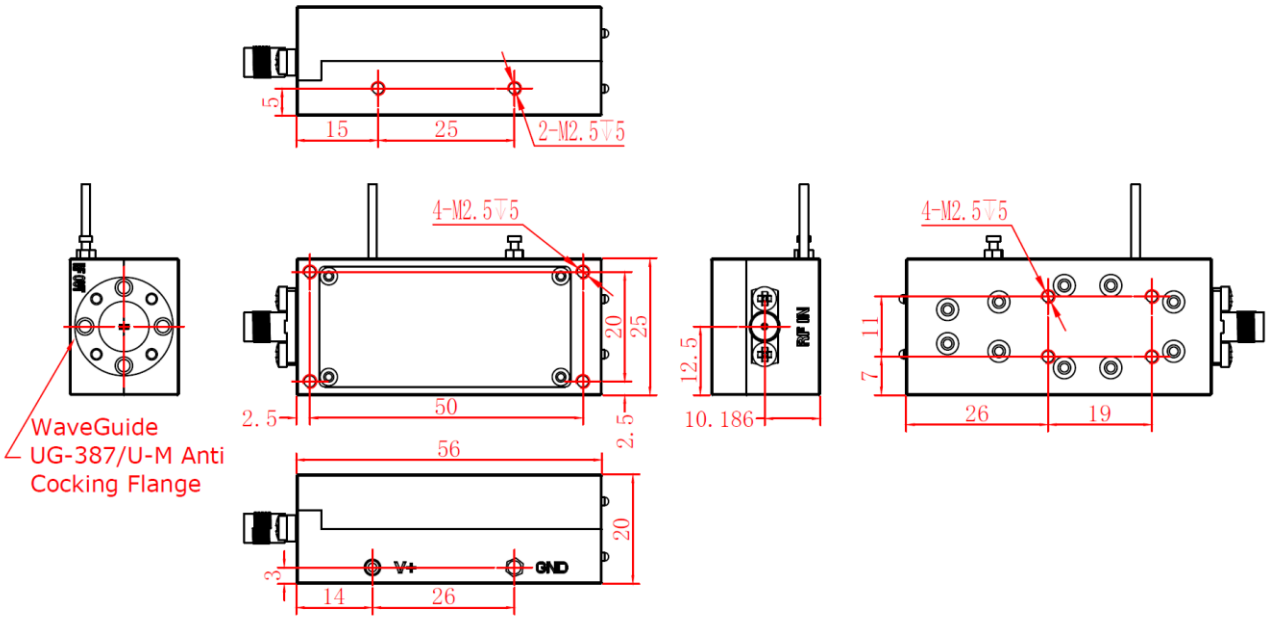
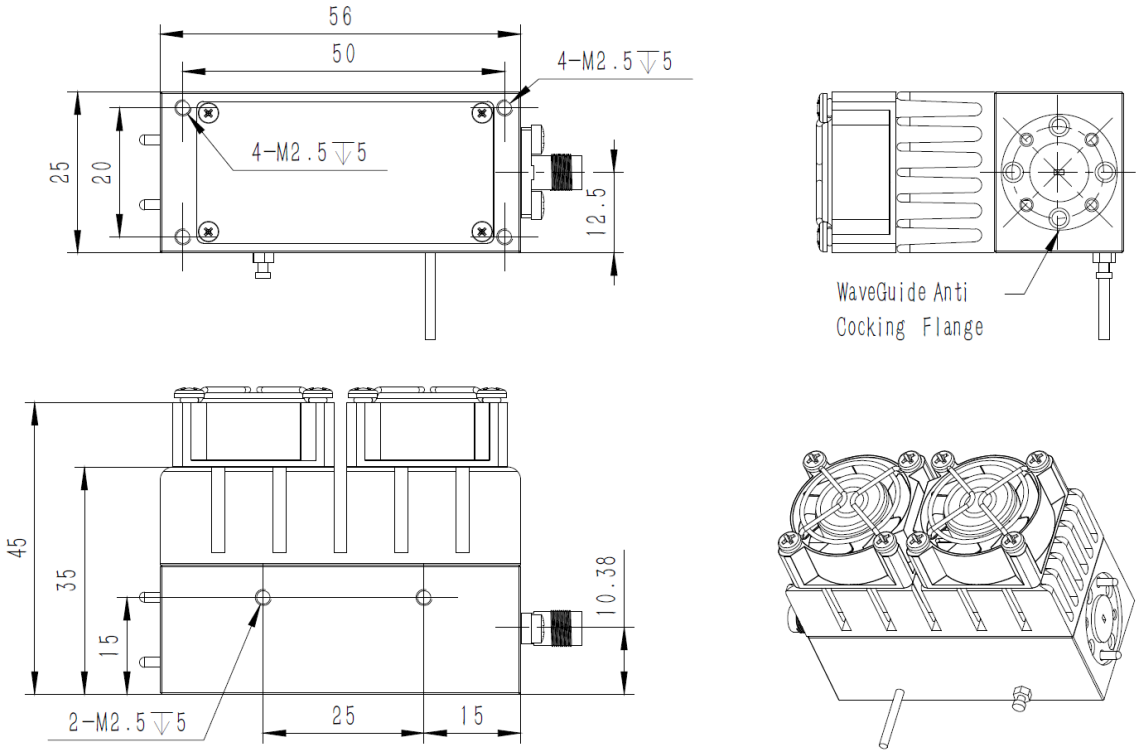
Dimension (unit in mm)



Heatsink Required during operation.



AT Microwave provides heatsink and Fan in default for this module.
Customer can remove it if using own heatsink.

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