

D Band x6 Active Multiplier

2023-5-5

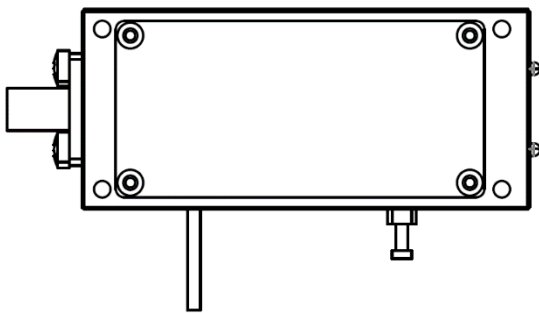
Pout=+13dBm, 110-150GHz, WR-06

Product Overview

AT-AM6-110150-13L is a D band, active x6 frequency multiplier. The multiplier has an input frequency of 18.33-25GHz with a typical output +13dBm from 110-150GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -15dBc. The input port is SMA female, and the output is a WR-06 waveguide with a standard UG-387-M flange.

More information, please visit www.atmicrowave.com



Feature

- ✓ Frequency: 110-150GHz
- ✓ Pout +13dBm Typ
- ✓ Input: 18.33-25GHz, +0dBm
- ✓ Single Power Supply

Application

- ✓ D band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)

Key Features

Parameter	Min	Typical	Max
Input Frequency		18.33-25GHz	
Multiplier Factor		X6	
Input Power	0dBm	+3dBm	+10dBm
Output Frequency		110-150GHz	
Output Power	+10dBm	+13dBm	
X5/X7 Harmonic Suppression		-20dBc	
Drain Voltage		+5V	
Current		0.5A	
Specification Temp		25C	





AT-AM6-110150-13L

X6 Active Multiplier, Pout=+13dBm

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-06 UG-387U/M with Anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

Notes:

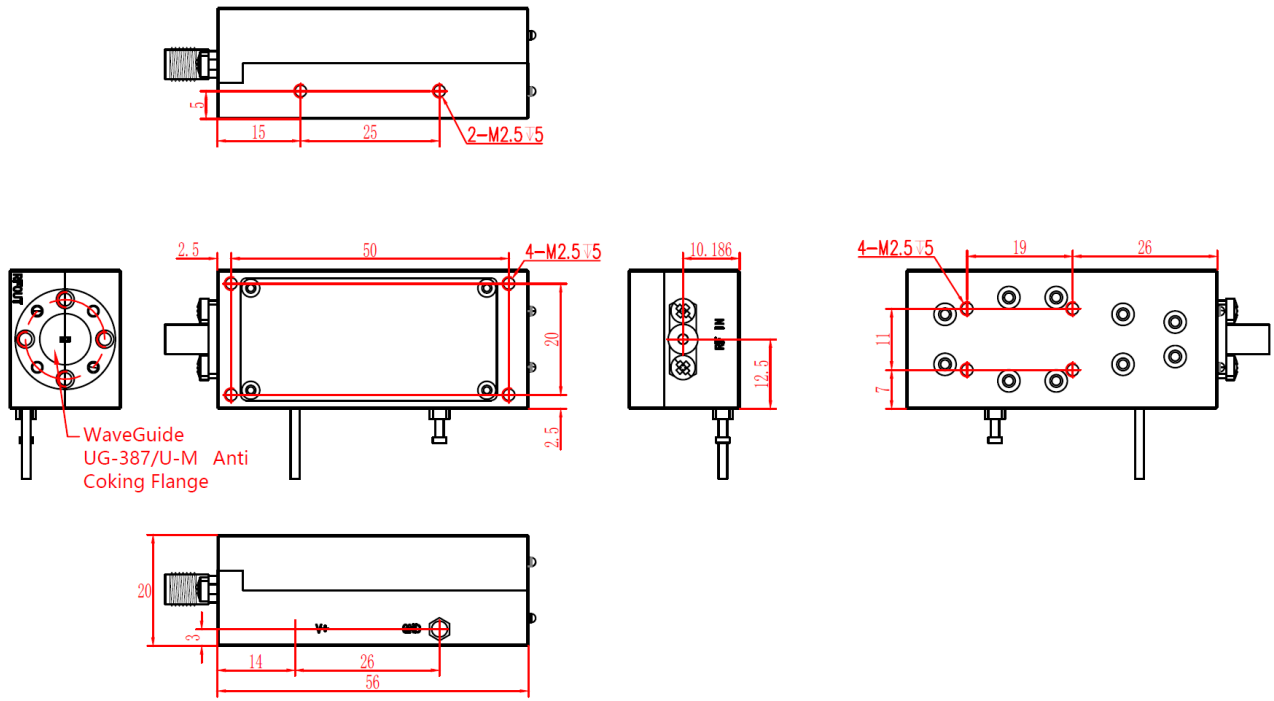
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Part Number Selection Guide

Item	Description
AT-AM6-110150-13L	Stand Module with DC Power Supply
AT-AM6-110150-13L-LCBT	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, +220V Supply with AC/DC Adapter



Dimension(mm)



PCN

Date	Description
2022-3-1	Initial Released
2022-12-1	Outline updated.

