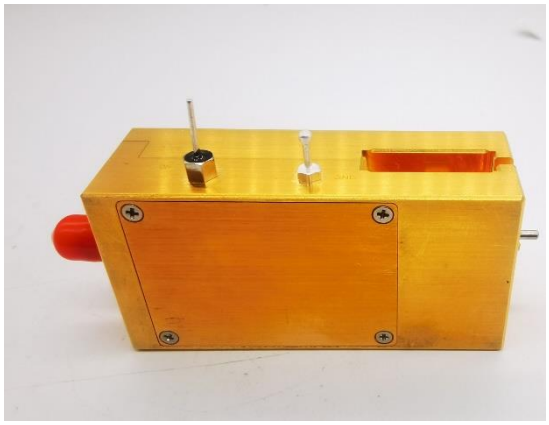
AT-AM3-6090-12

Active Multiplier x3, 60-90GHz Pout=+12dBm

Full E Band x3 Active Multiplier 60-90GHz, Pout=+12dBm, WR-12

2022-5-17



Description:

AT-AM3-6090-12 is a full E band, active x3 frequency multiplier. The multiplier has an input frequency of 20-30GHz with a typical output +12dBm from 60-90GHz.

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 2.92mm female, and the output is WR-12. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 60-90GHz
- ✓ Pout: +12dBm typical
- ✓ Input: 20-30GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		20-30GHz	
Input Power	+16dBm	+17dBm	+20dBm
Multiplier Factor		X3	
Output Frequency		60-90GHz	
Output Power	+10dBm	+12dBm	
Harmonic Suppression		-20dBc	
Drain Voltage		+5V	+8V
Idd/Current		350mA	0.5A
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	200g
Size:	60X30X20 mm

Absolute Maximum Ratings Table

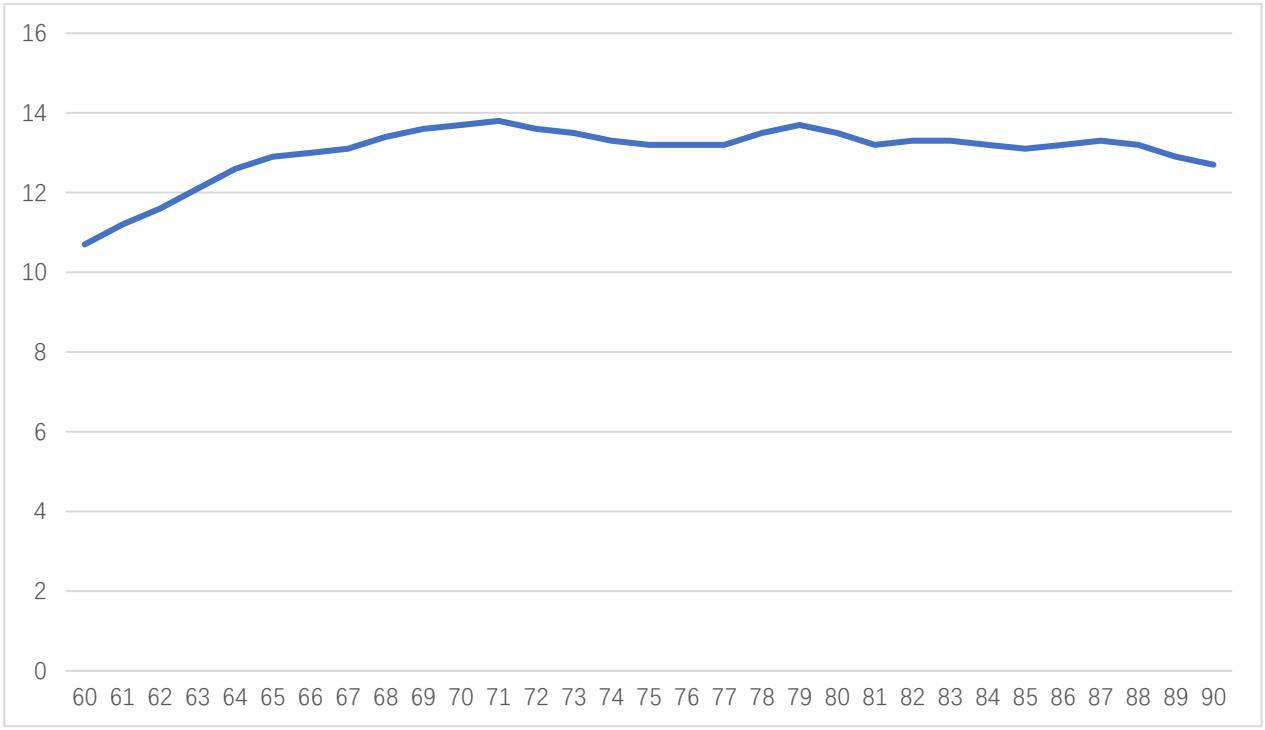
Parameter	**Value**
Drain Supply	+9V
RF Input Power	+22dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

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.

Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



Pout vs Frequency

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Dimension (unit in mm)