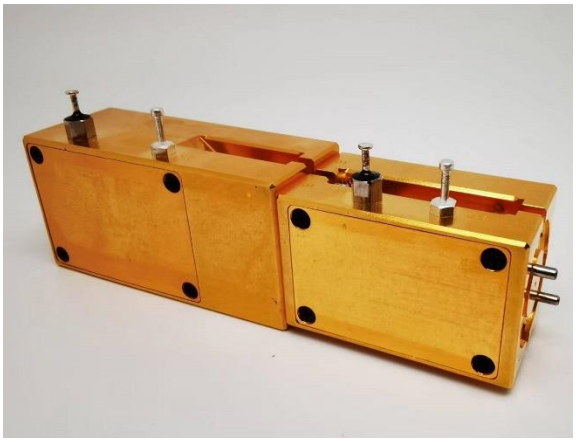
AT-AM16-200230-10

Active Multiplier x16, 200-230GHz Pout=+10dBm

H Band X16 Active Multiplier 200-230GHz, Pout=+10dBm, WR-04

2022-8-1



Description:

AT-AM16-200230-10 is a H Band, active x18 frequency multiplier. The multiplier has an input frequency of 12.5-14.375 GHz with a typical output +10dBm from 200-230GHz.

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-04. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

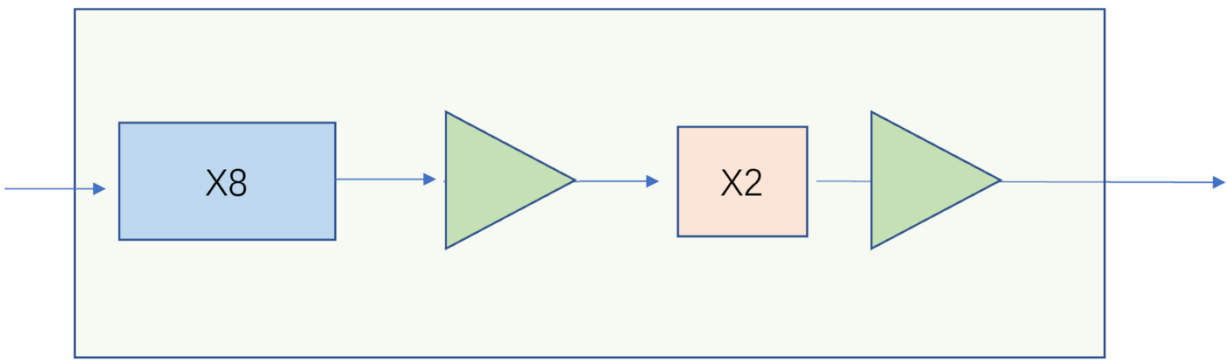
Feature

- ✓ Frequency: 200-230GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 12.5-14.375GHz
- ✓ Low Harmonics

Application

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

Block Diagram



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AT-AM16-200230-10

Active Multiplier x16, 200-230GHz Pout=+10dBm

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		12.5-14.375GHz	
Input Power	+3	+5dBm	+8
Multiplier Factor		X16	
Output Frequency		200-230GHz	
Output Power	+7dBm +4dBm	200-225GHz: +10dBm 225-230GH: +7dBm	
X15/17 Harmonic Suppression		To be added.	
Drain Voltage		+5V	+8V
Current		0.35A	
Spec Temp		25C	

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight	250g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
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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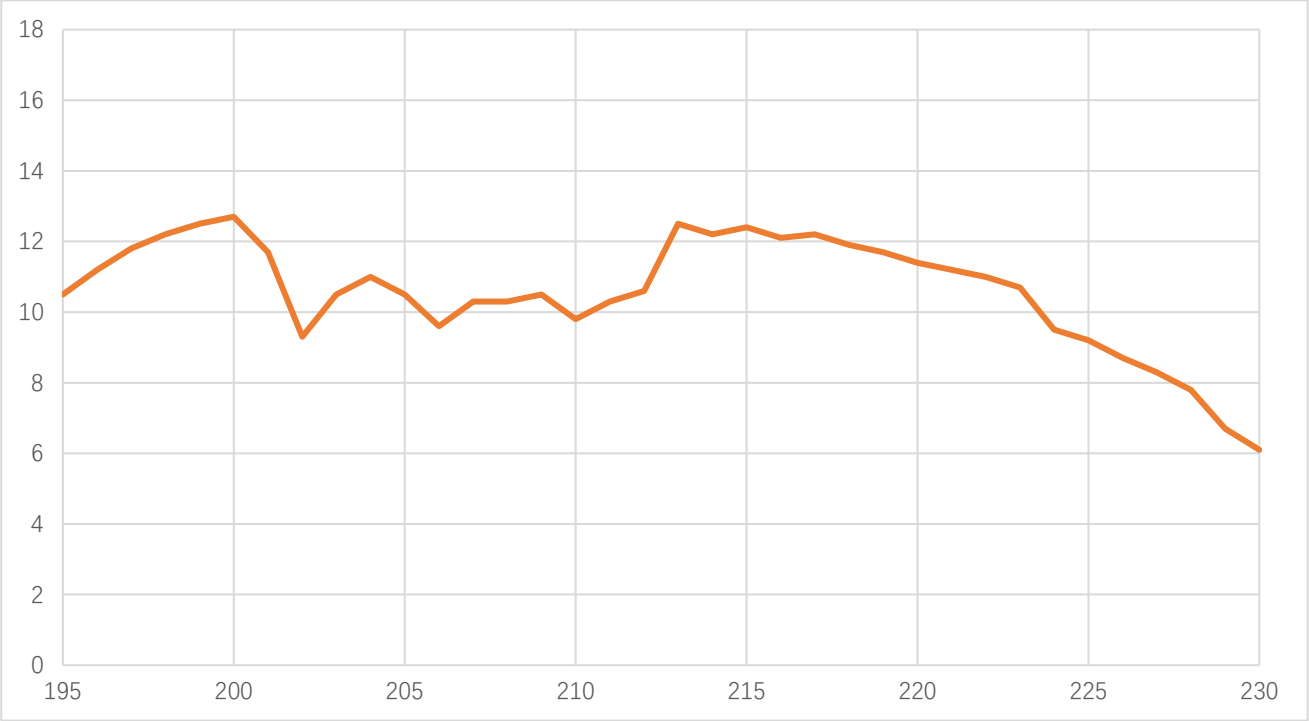
Test Data



Pout vs Frequency, Pin=+5dBm