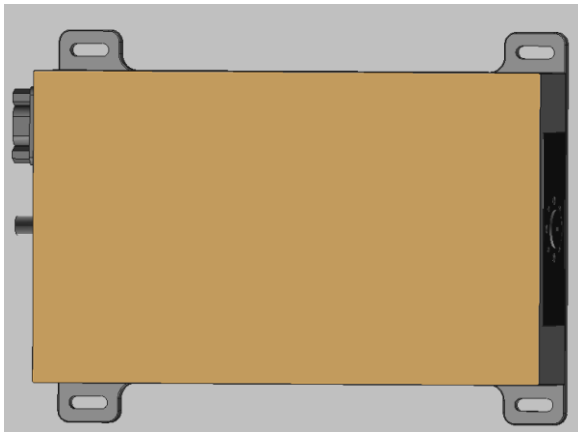# H Band X16 Active Multiplier
210-230GHz, Pout=+20dBm, WR-04

2022-5-1

Description:

AT-AM16-210230-20 is a H Band, active x16 frequency multiplier. The multiplier has an input frequency of 13-14.375 GHz with a typical output +20dBm from 210-230GHz.

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.
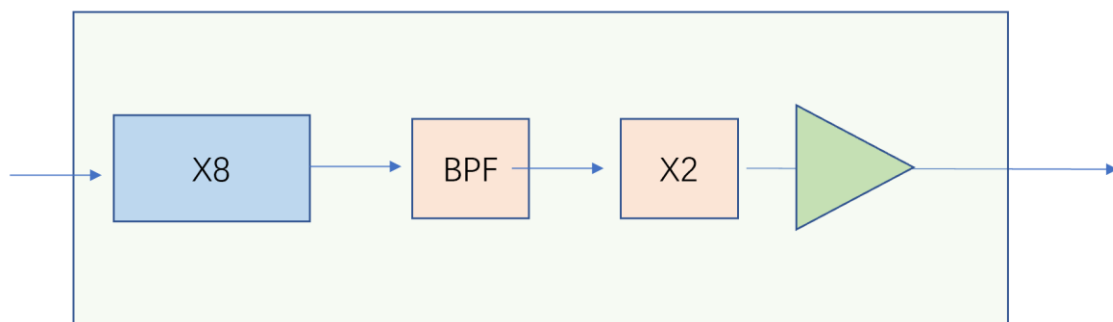
More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 210-230GHz
- ✓ Pout: +20dBm typical
- ✓ Input: 13-14.375GHz
- ✓ Low Harmonics

Application

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

Block Diagram

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency		13-14.375GHz	
Input Power	+3	+5dBm	+8
Multiplier Factor		X16	
Output Frequency		210-230GHz	
Output Power	+17dBm +15dBm	210-225GHz: +20dBm 225-230GH: +18dBm	
X15/17 Harmonic Suppression		TO BE ADDED.	
Drain Voltage		+5V	+8V
Current		1.5A	1.8A
Spec Temp		25C	

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-04
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	450g
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.