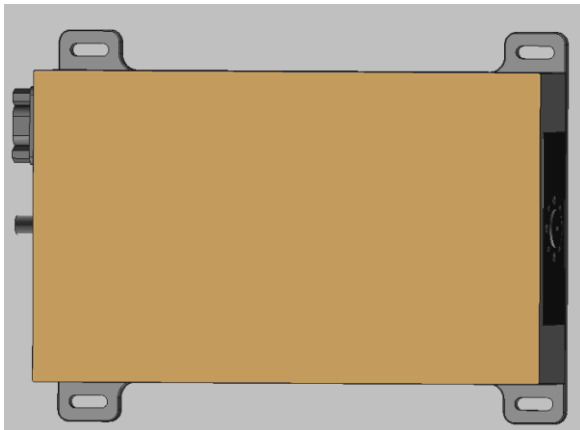


High Power X6 E Band Active Multiplier 80-88GHz, Pout=+29dBm ,WR-12

2022-7-1



Product Overview

AT-AM6-8088-29G1 is a E band, active x4 frequency multiplier. The multiplier has an input frequency of 13.33-14.67GHz with a typical output +29dBm from 80-88GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -60dBc. The input port is SMA female, and the output is a WR-12 waveguide.

Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

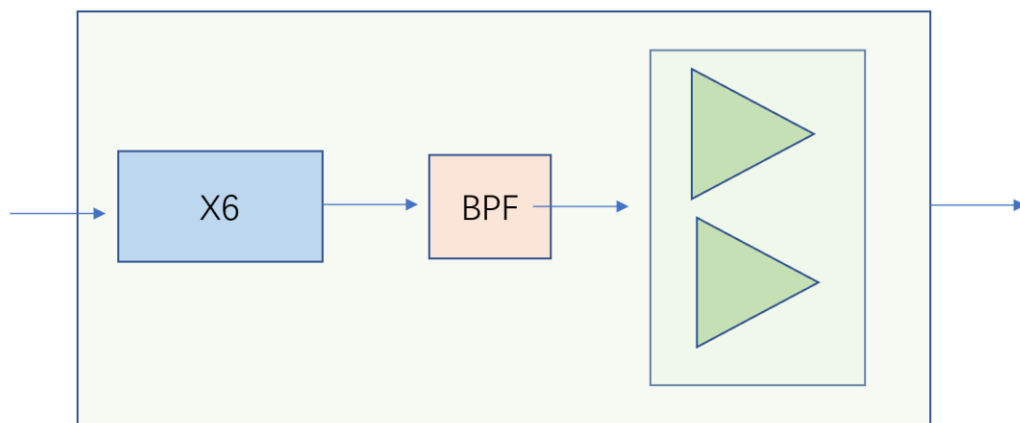
Advantages

- ✓ Frequency: 80-88GHz
- ✓ Pout: +29dBm typical
- ✓ Input: 13.33-14.67GHz, +13dBm
- ✓ Single Supply

Application

- ✓ E band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Block Diagram





AT-AM6-8088-29G1

Active Multiplier X6, 80-88GHz Pout=+29dBm

Key Features

Parameter	Min	Typical	Max
Input Frequency		13.33-14.67GHz	
Input Power	+10dBm	+13dBm	+15dBm
Multiplier Factor		X6	
Output Frequency		80-88GHz	
Output Power	+28dBm	+29dBm	
Harmonica Suppression		-60dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		3.5A	
Current at Psat		4.0A	5A
Spec Temp		25C	

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Aluminum
Finish	Anodized
Weight (Without Heatsink)	450g
Size:	See outline





AT-AM6-8088-29G1

Active Multiplier X6, 80-88GHz Pout=+29dBm

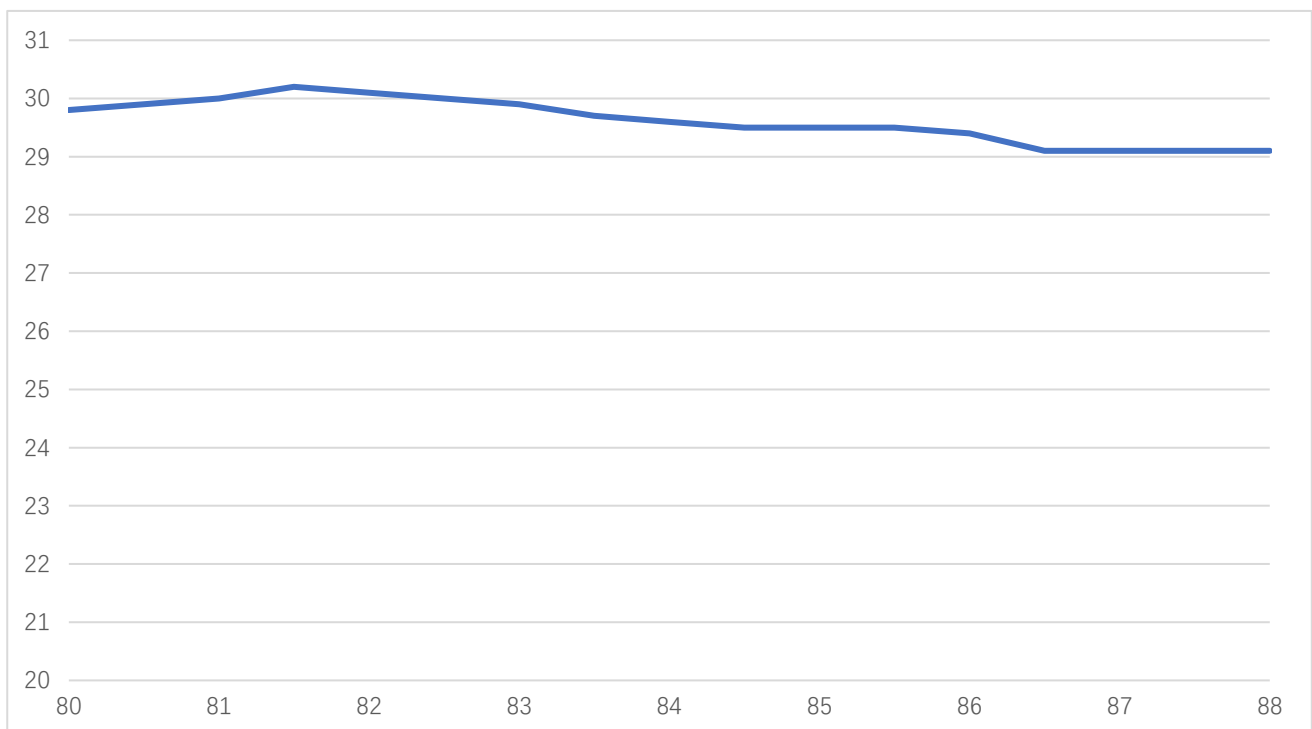
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+15dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C

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.

Test Data:



Pout vs Frequency

