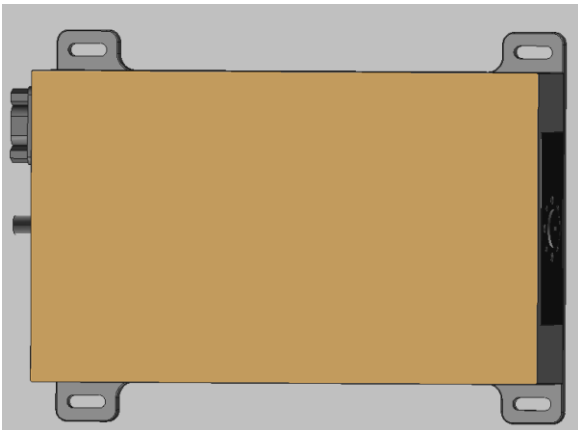


High Power X6 E1 Band Active Multiplier 70-78GHz, Pout=+28dBm ,WR-12

2022-5-1



Product Overview

AT-AM6-7078-28 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 11.66-13GHz with a typical output +28dBm from 70-78GHz.

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

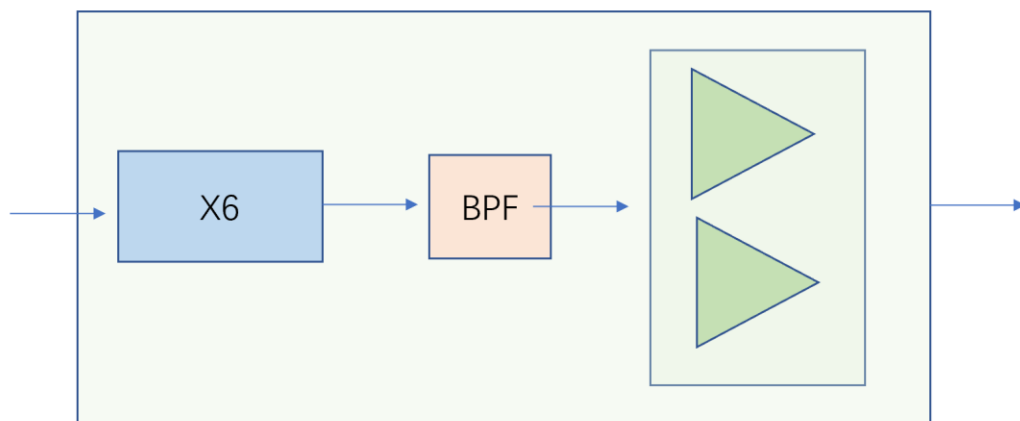
Advantages

- ✓ Frequency: 70-78GHz
- ✓ Pout: +28dBm typical
- ✓ Input: 11.66-13GHz, +13dBm
- ✓ Single Supply

Application

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

Block Diagram





AT-AM6-7078-28

Active Multiplier X6, 70-78GHz Pout=+28dBm

Key Features

Parameter	Min	Typical	Max
Input Frequency		11.66-13GHz	
Input Power	+10dBm	+13dBm	+15dBm
Multiplier Factor		X6	
Output Frequency		70-78GHz	
Output Power	+27dBm	+28dBm	
Harmonica Suppression		-60dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		2.0A	
Current at Psat		2.5A	3A
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





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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.

