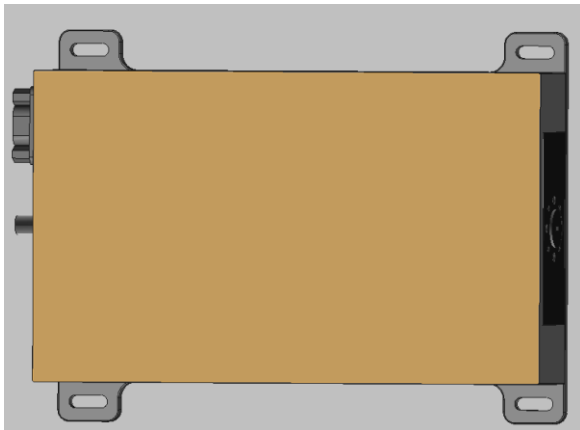


High Power X6 E Band Active Multiplier 76-81GHz, Pout=+29dBm ,WR-12

2022-7-1



Product Overview

AT-AM6-7681-29G1 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 12.67 to 13.5GHz with a typical output +29dBm from 76-81GHz.

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

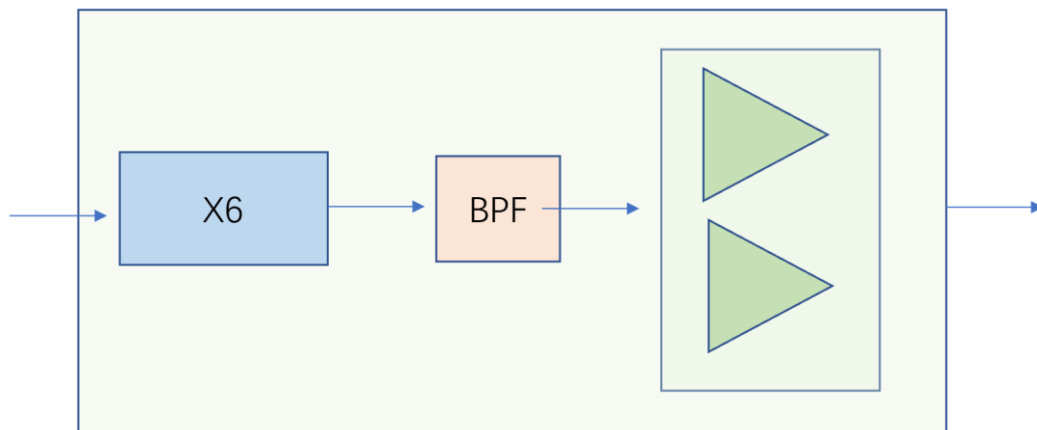
Advantages

- ✓ Frequency: 76-81GHz
- ✓ Pout: +29dBm typical
- ✓ Input: 12.67-13.5GHz, +3dBm
- ✓ Single Supply

Application

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

Block Diagram





AT-AM6-7681-29G1

Active Multiplier x6, 76-81GHz Pout=+29dBm

Key Features

Parameter	Min	Typical	Max
Input Frequency		12.67-13.5GHz	
Input Power	+0dBm	+3dBm	+6dBm
Multiplier Factor		X6	
Output Frequency		76-81GHz	
Output Power	+28dBm	+29dBm	
Harmonica Suppression		-60dBc	
Drain Voltage		+5V	+8V
Current Quiescent/A		3A	
Current at Psat		4.2A	4.5A
Spec Temp		25C	

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-12
Case Material	Aluminum
Finish	Anodized
Weight (Without Heatsink)	750g
Size:	See outline





AT-AM6-7681-29G1

Active Multiplier x6, 76-81GHz 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.

