W Band (75-110GHz) Active Multiplier
High Power +20dBm, WR-10

Product Overview

AT-BTAM6-75110-20 is full W band, active x6 frequency multiplier. The multiplier has an input frequency of 12.5-18.33 GHz with a typical output +20dBm from 75-110GHz. W Band isolator is an optional choice to improve power protection and power stability

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 a WR-10 waveguide with a standard UG-387-M flange.

More information, please visit www.atmicrowave.com

Advantages

✓ Frequency: 75-110GHz
✓ Pout: +20dBm typical
✓ Input: 12.5-18.3GHz, +3dBm
✓ Bench-Top Labs Test

Application

✓ Test Equipment
✓ ROF (RF Over Fiber)
✓ Radar System
✓ RCS Test

Key Features

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.33GHz
Input Power	+12	+13dBm	+15
Multiplier Factor		X6	
Output Frequency	75GHz		110GHz
Output Power	+18dBm	+20 dBm	
Input Return Loss		-10dB	
Power Supply	90V	110-220V	240V
Temp Spec		25C	

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Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-10
Power Supply	90-240V AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Weight	2.5KG
Dimension	See outline

Absolute Maximum Ratings Table

Parameter	Value
Power Supply	+90 to 260V
IF Input Power	+15dBm
Operating Temperature	0 to +50C
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.

Dimension(mm)

The bottom of the bench-top product is with four support foot pads in default.
Mounting bracket option is available according to request.

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