

# D Band (110-170GHz) Active Multiplier X12, Bench-top Test Equipment, WR-06

### Product Overview



AT-BTAM12-110170 is full D band, active x12 frequency multiplier. The multiplier has an input frequency of 9.16 to 14.17GHz with a typical output -3dBm from 110-170GHz. The input port is SMA female, and the output is a WR-06 waveguide with a standard UG/387-M flange.

Please note that there is no isolator at output Port in default. Isolator can be added by -ISO option with extra insertion loss. More information, please contact with [sales@atmicrowave.com](mailto:sales@atmicrowave.com)

### Advantages

- ✓ Frequency: 110-170GHz
- ✓ Pout: -3dBm typical
- ✓ Input: 9.16-14.17GHz, +3dBm
- ✓ Bench-Top Labs Test

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	9.16GHz		14.17GHz
Input Power	+0dBm	+3dBm	+10
Multiplier Factor		X12	
Output Frequency	110GHz		170GHz
Output Power	-5dBm	0dBm	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Power Supply	+90V	+220V	+240V
Power Consumption		10W	
Temp Spec		25C	





# AT-BTAM12-110170

Bench-Top D Band X12 Frequency Extender

## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-06
Power Supply	90V- 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	-45 to +85C

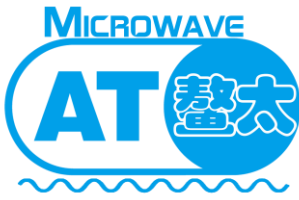
## Notes:

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.



**Shanghai AT Microwave Limited**  
Tel:021-6229 1233 sales@atmicrowave.com  
www.atmicrowave.com





# AT-BTAM12-110170

## Bench-Top D Band X12 Frequency Extender

### 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.

