



AT-BTAM8-110170

Bench-Top D Band X8 Frequency Extender

D Band (110-170GHz) Active Multiplier X8, Bench-top Test Equipment, WR-06



Product Overview

AT-BTAM8-110170 is full D band, active x12 frequency multiplier. The multiplier has an input frequency of 13.75 to 21.25GHz 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

Advantages

- ✓ Frequency: 110-170GHz
- ✓ Pout: -3dBm typical
- ✓ Input: 13.175-21.25GHz, +10dBm
- ✓ Bench-Top Labs Test

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency	13.75GHz		21.25GHz
Input Power	+7dBm	+10dBm	+16dBm
Multiplier Factor		X8	
Output Frequency	110GHz		170GHz
Output Power	-5dBm -8dBm	110-160GHz: +0 dBm 160-170GHz: -3 dBm	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Power Supply		+12V/0.45A	
Temp Spec		25C	



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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	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

Part Number Selection Guide

Part Number	Description
PN	Standard product
PN-ISO	Integrated with Isolation at Output Port. Output Power will be lower due to the Isolator Insertion Loss.
PN-B	Integrated with Full band-pass Filter at Output Port to reduce spurs out of band. Output Power will be lower due to BPF Insertion Loss.
PN-ISO-B	Integrated with both Isolator and BPF. Output Power will be lower due the IL of Isolator and BPF.



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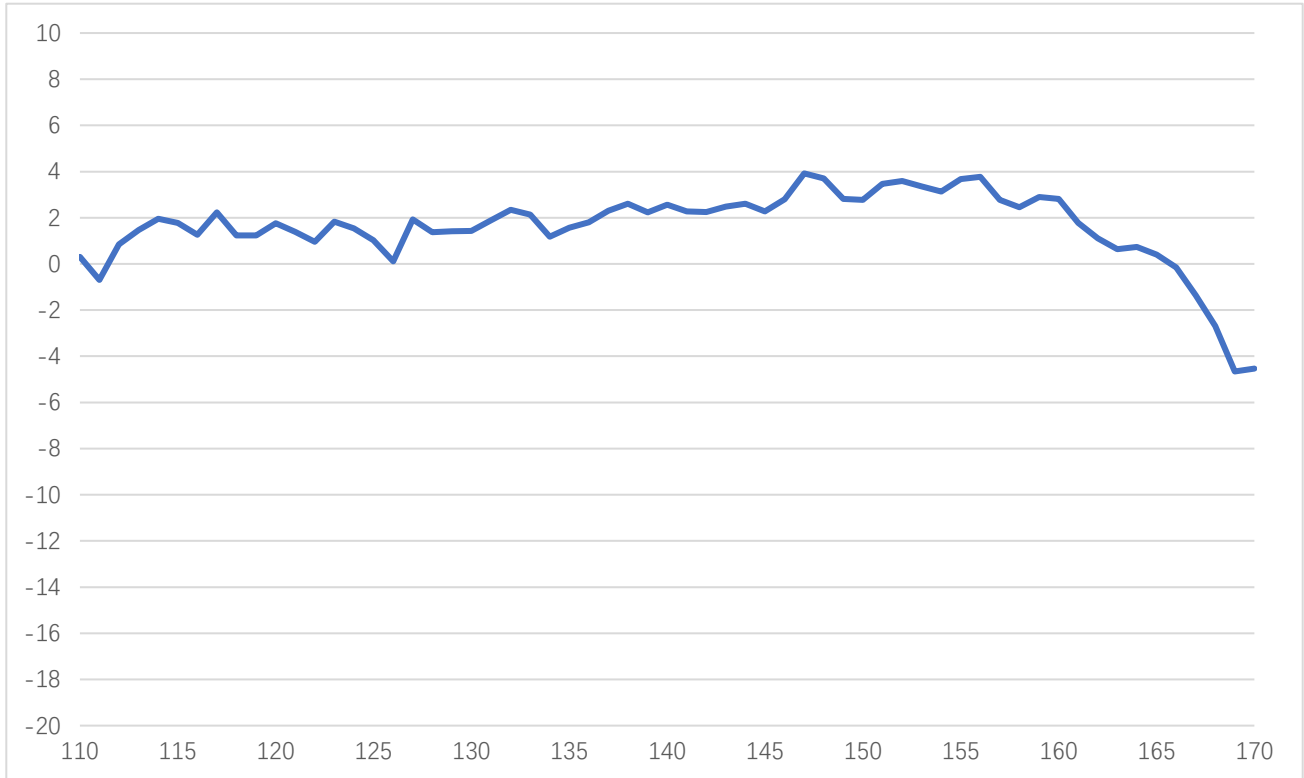


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Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



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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.

