

# AT-BTAM8-90140C

Bench-Top F Band X8 Frequency Extender

## F Band (90-140GHz) Active Multiplier Bench-top Test Equipment, WR-08

### Product Overview



AT-BTAM8-90140C is full F band, active x8 frequency multiplier. The multiplier has an input frequency of 11.25-17.5GHz with a typical output +13dBm from 90-140GHz.

The input port is SMA female, and the output is a WR-08 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: 90-140GHz
- ✓ Pout: 0dBm typical
- ✓ Input: 11.25-17.5GHz, +5dBm
- ✓ Bench-Top Labs Test

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	11.25GHz		17.5GHz
Input Power	0	+3dBm	+10dBm
Multiplier Factor		X8	
Output Frequency	90GHz		140GHz
Output Power	-3dBm -6dBm	90-120GHz: 0 dBm 120-140GHz: -3dBm	
Input Return Loss		-15dB	
Output Return Loss		-10dB	
Power Supply	90V	110-220V	240V
Temp Spec		25C	



Shanghai AT Microwave Limited

Tel:021-6229 1233 sales@atmicrowave.com

www.atmicrowave.com





# AT-BTAM8-90140C

Bench-Top F Band X8 Frequency Extender

## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-08
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

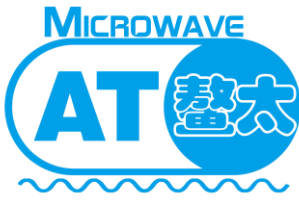
## Notes:

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.



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



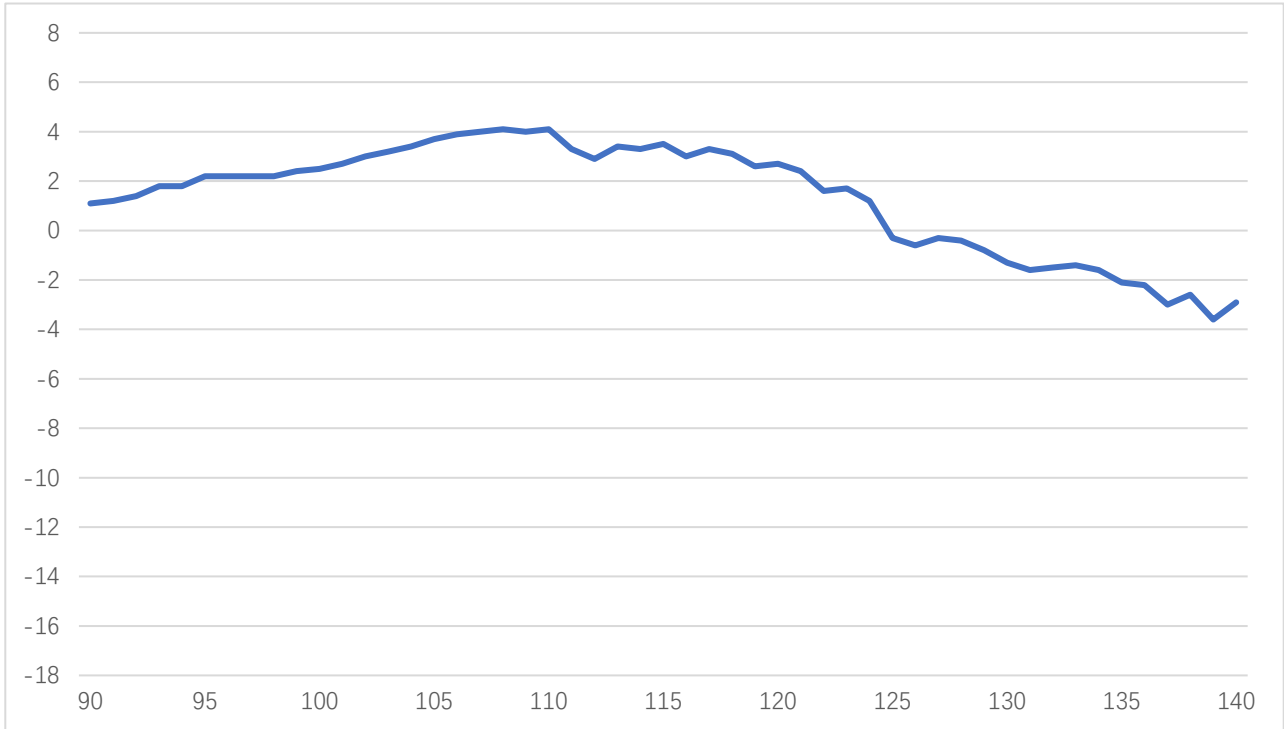


# AT-BTAM8-90140C

Bench-Top F Band X8 Frequency Extender

## Test Data (25C)

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



Pout vs Frequency



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



### 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.

