

## X4 Full V Band Active Multiplier, Bench-Top Test Equipment, WR-15



### Product Overview

AT-BTAM4-5075-18 is a V band, active x4 frequency multiplier. The multiplier has an input frequency of 12.5-18.75 GHz with a typical output +18dBm from 50-75GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -20dBc. The input port is SMA female, and the output is standard WR-15 waveguide.

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: 50-75GHz
- ✓ Pout: +18dBm typical
- ✓ Input: 12.5-18.75GHz, +3dBm
- ✓ Bench-Top Labs Test

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	12.5GHz		18.75GHz
Input Power	0dBm	+3dBm	+10dBm
Multiplier Factor		X4	
Output Frequency	50GHz		75GHz
Output Power	+15dBm	+18dBm	
Harmonica Suppression		-20dBc	
Power Supply	90V	110 to 220V	240V
Spec Temp		25C	





# AT-BTAM4-5075-18

Bench-Top Active Multiplier x4

## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-15
Power Supply	90V TO 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

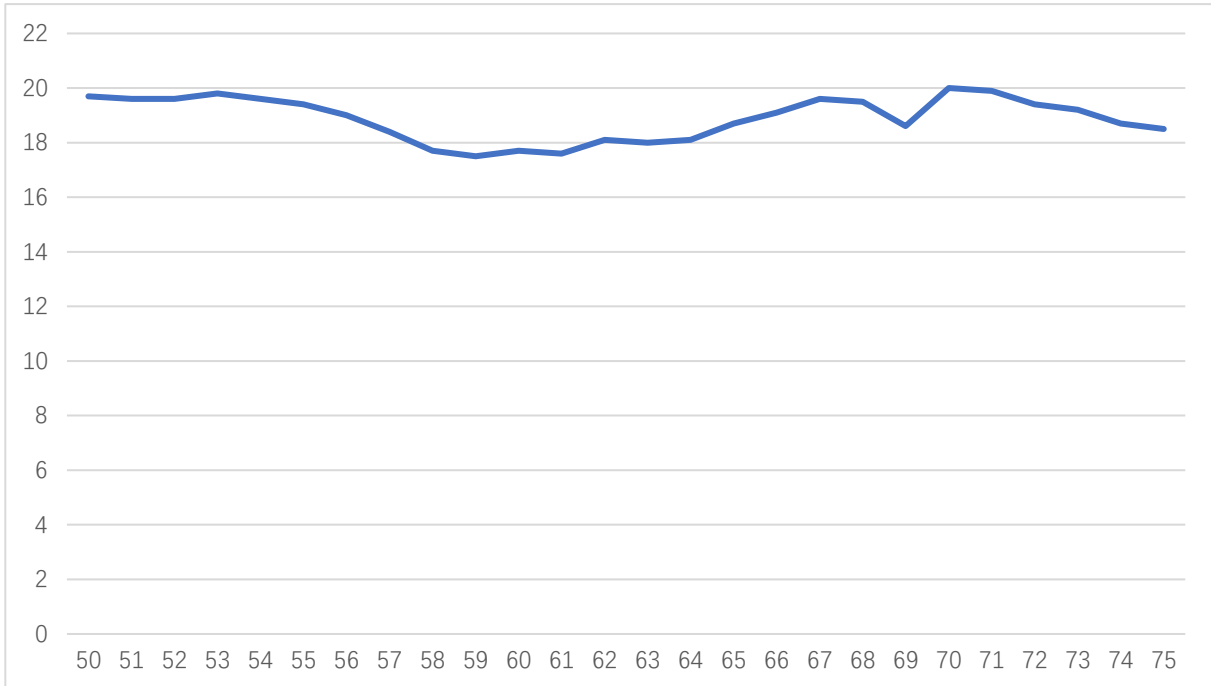
## Notes:

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.

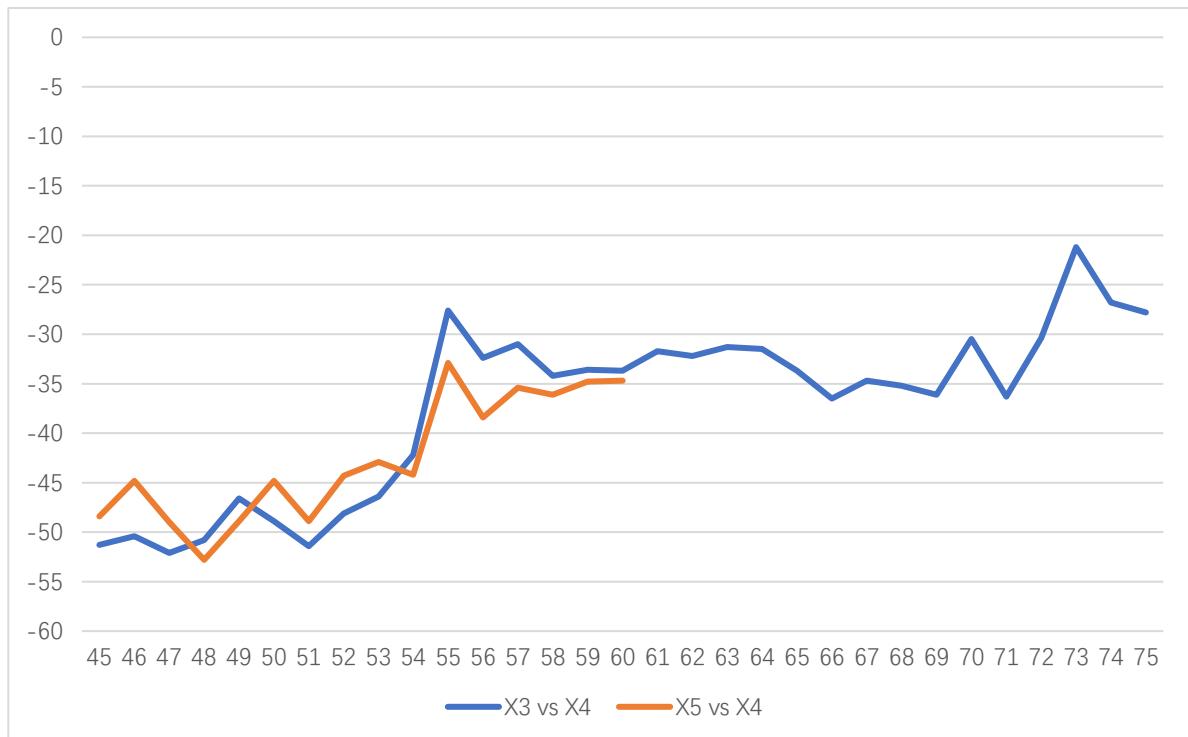


## Test Data (25C)

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



Pout vs Frequency



X3/X5 Harmonics suppression vs X4 Pout



## 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.

