

## X4 Full U Band Active Multiplier, Bench-Top, High Power=+30dBm, WR-19



### Product Overview

AT-BTAM4-4060-30 is a U band, active x4 frequency multiplier. The multiplier has an input frequency of 10 to 15 GHz with a typical output +30dBm from 40-60GHz.

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-19 waveguide. Other port configurations are available under different requirement.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Advantages

- ✓ Frequency: 40-60GHz
- ✓ Pout: +30dBm typical
- ✓ Input: 10-15GHz, +3dBm
- ✓ Bench-Top Labs Test

### Application

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

### Key Features

Parameter	Min	Typical	Max
Input Frequency	10GHz		15GHz
Input Power	+7dBm	+10dBm	+16dBm
Multiplier Factor		X4	
Output Frequency	40GHz		60GHz
Output Power	+28dBm	+30dBm	
Harmonica Suppression		-20dBc	
Power Supply	90V	110-220V	240V
Spec Temp		25C	





# AT-BTAM4-4060-30

Bench-Top Active Multiplier x4

## Mechanical Information:

Parameter	Value
IF Input Port	SMA Female
RF Output Port	WR-19
Power Supply	90V to 240V AC to +24V DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Weight	3.5KG
Dimension	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain 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.



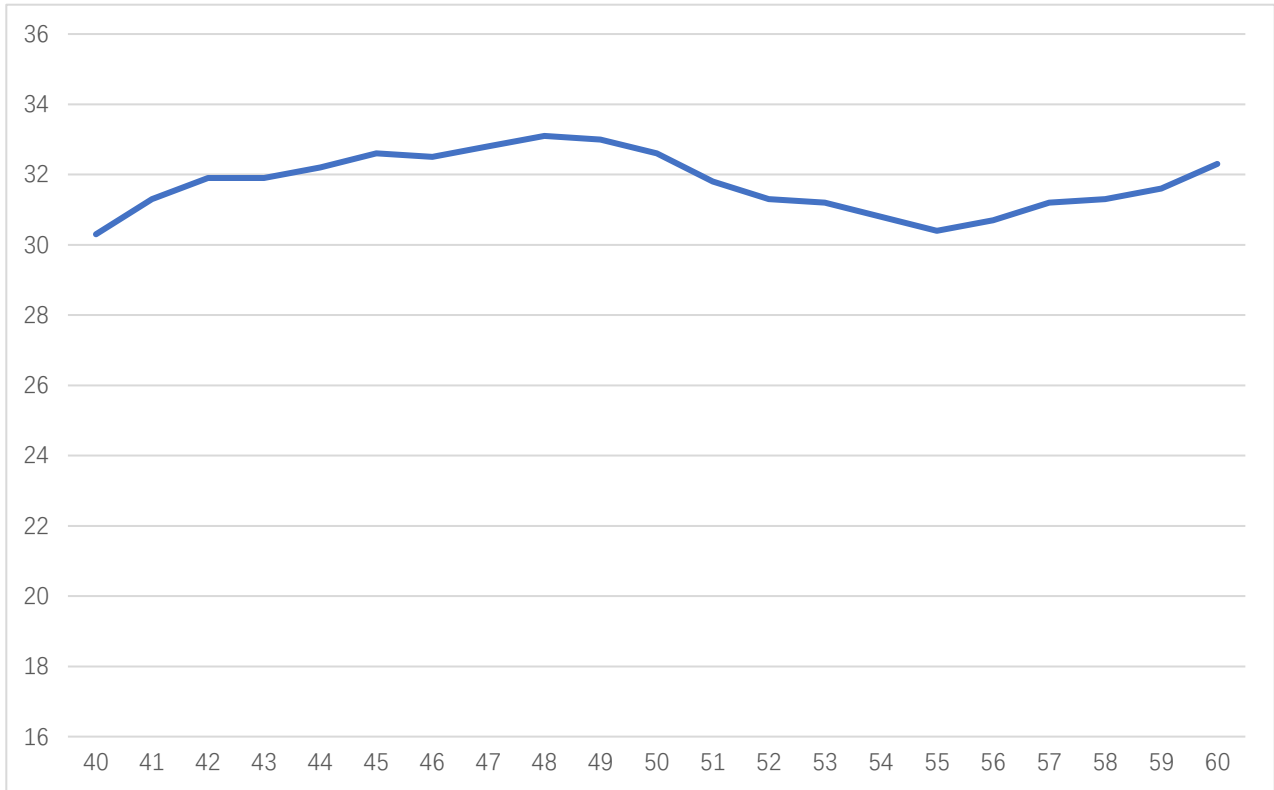


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## Test Data (25C)

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



Pout vs Frequency



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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.

