

X4 Full U Band Active Multiplier, Bench-Top, WR-19



Product Overview

AT-BTAM4-4060-18 is a U band, active x4 frequency multiplier. The multiplier has an input frequency of 10 to 15 GHz with a typical output +18dBm 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.

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: 40-60GHz
- ✓ Pout: +18dBm 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 | 0dBm | +3dBm | +10dBm |
| Multiplier Factor | | X4 | |
| Output Frequency | 40GHz | | 60GHz |
| Output Power | +16dBm | +18dBm | |
| Harmonica Suppression | | -30dBc | |
| Power Supply | 90V | 110 to 220V | 240V |
| Spec Temp | | 25C | |





AT-BTAM4-4060-18

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 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 |
|-----------------------|--------------|
| Drain Supply | +90 to 260V |
| IF Input Power | +15dBm |
| Operating Temperature | 0 to +50C |
| Storage Temperature | -65 to +150C |

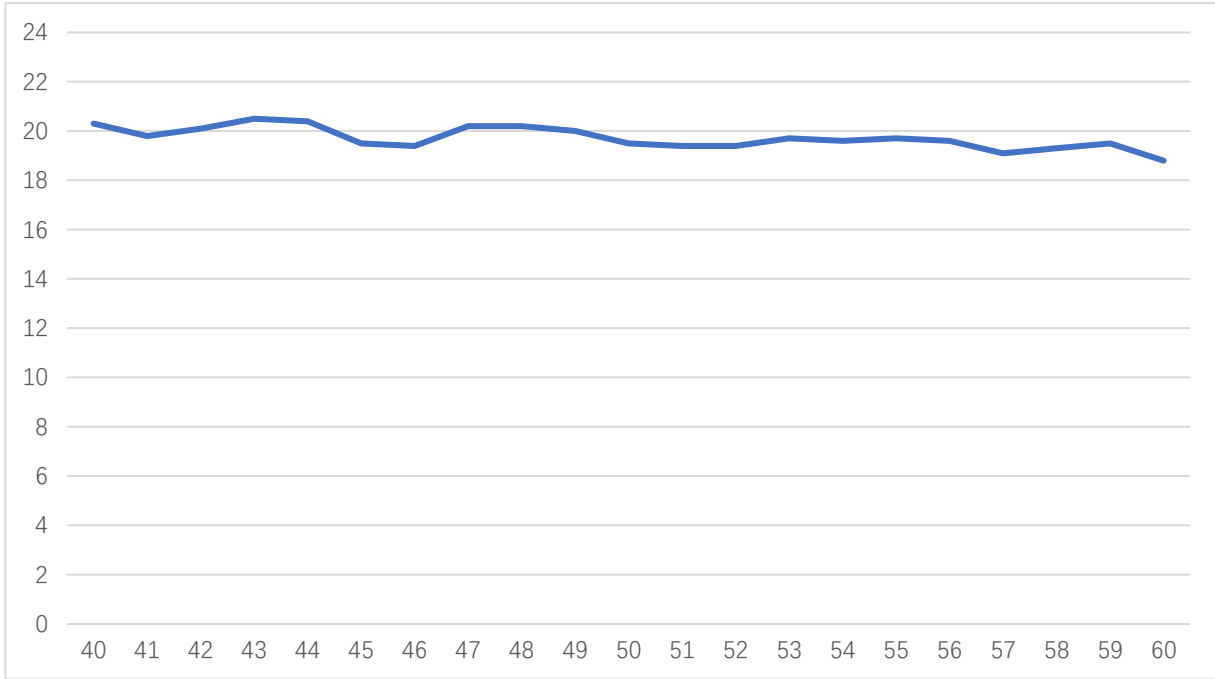
Notes:

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.

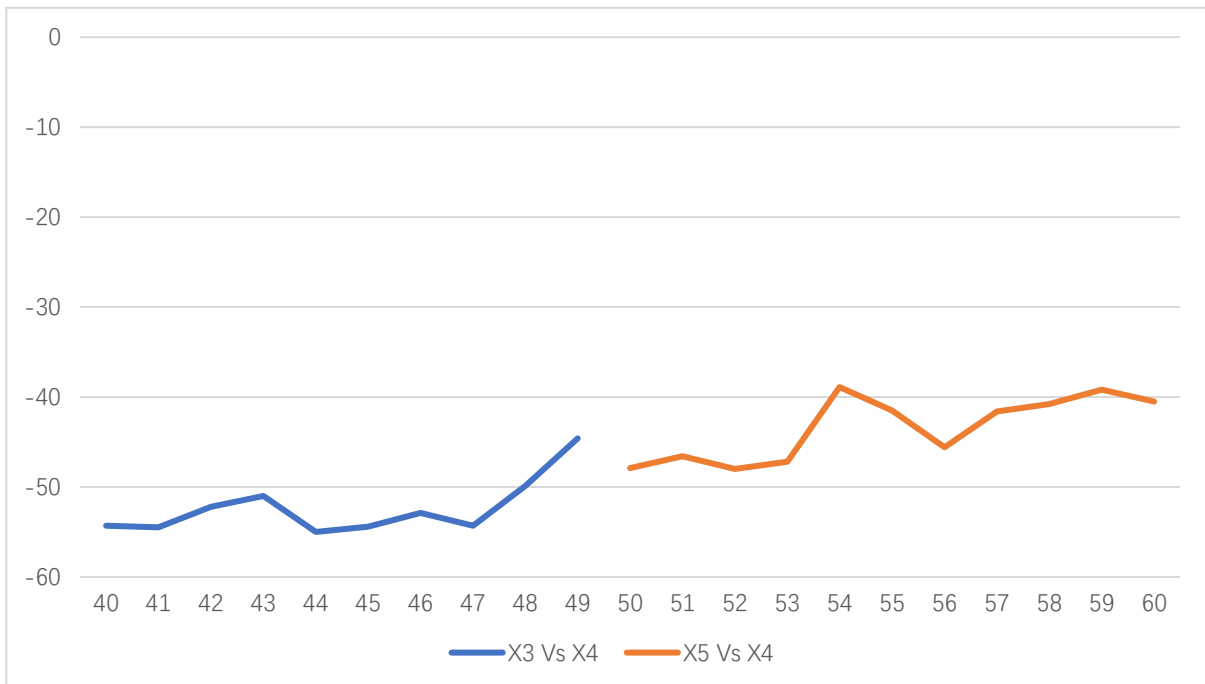


Test Data (25C)

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.

