

X6 Full E Band Active Multiplier, Pout=+15dBm Bench-Top, WR-12



Product Overview

AT-BTAM6-6090-15 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 10 to 15 GHz with a typical output +15dBm from 60-90GHz.

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 a WR-12 waveguide with a standard UG-387 flange. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 60-90GHz
- ✓ Pout: +15dBm typical
- ✓ Input: 10-15GHz, +10dBm
- ✓ Bench-Top Labs Test

Application

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

Key Features

| Parameter | Min | Typical | Max |
|-----------------------|--------|------------|--------|
| Input Frequency | 10GHz | | 15GHz |
| Input Power | +8 | +10dBm | +13dBm |
| Multiplier Factor | | X6 | |
| Output Frequency | 60GHz | | 90GHz |
| Output Power | +13dBm | +15dBm | |
| Harmonica Suppression | | -20dBc | |
| Power Supply | | +12V/0.45A | |
| Spec Temp | | 25C | |





AT-BTAM6-6090-15

Bench-Top Active Multiplier x6

Mechanical Information:

| Parameter | Value |
|----------------|---|
| IF Input Port | SMA Female |
| RF Output Port | WR-12 |
| DC Bias | 2.5mm DC Jack with +12V Supply AC to DC Power Converter included |
| DC Bias Switch | ON-OFF switch with light indicator |
| Weight | 1.6KG |
| 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 | -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.



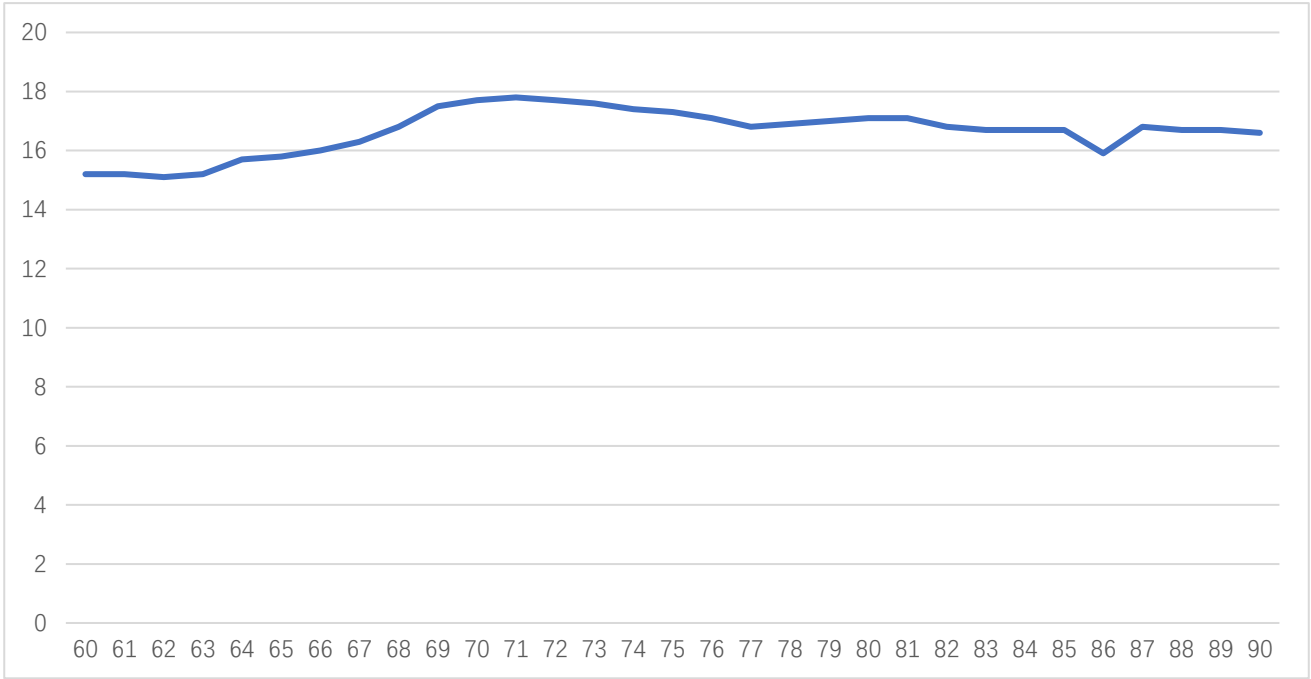


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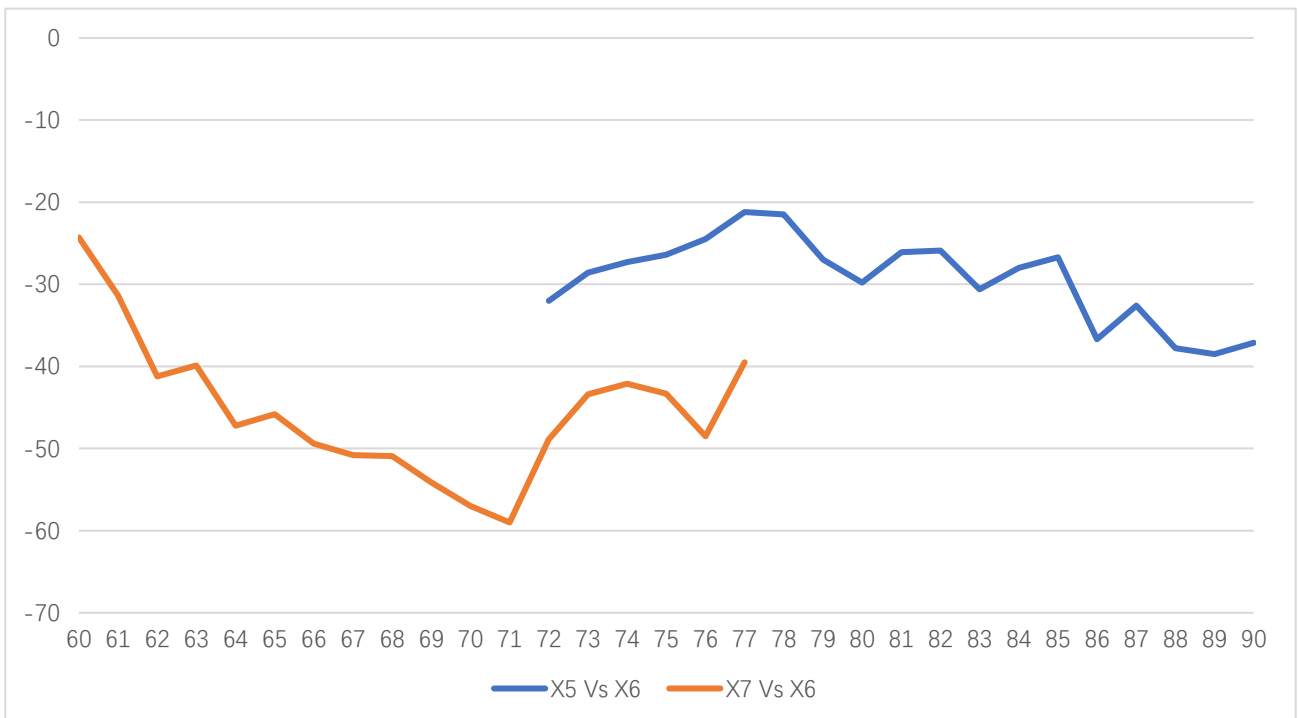
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Test Data (25C)

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



Pout vs Frequency



X5/X7 Harmonics Suppression vs X6 Pout





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Dimension: (mm)

