



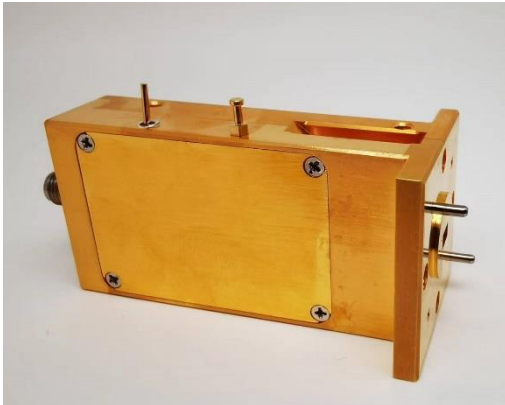
AT-AM4-4060-15L

Active Multiplier x4, 40-60GHz Pout=+15dBm

Full U Band Active Multiplier

2022-8-11

Pout=+15dBm, Low Input Power, WR-19



Description:

AT-AM4-4060-15L is a full U band, active x4 frequency multiplier with low input power +3dBm. The multiplier has an input frequency of 10-15 GHz with a typical output +15dBm 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. The input port is SMA female, and the output is WR-19. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 40-60GHz
- ✓ Pout: +15dBm typical
- ✓ Input: 10-15GHz, +3dBm
- ✓ Low Harmonics

Application

- ✓ U band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

| Parameter | Min | Typical | Max |
|----------------------------|--------|---------|--------|
| Input Frequency | 10GHz | | 15GHz |
| Input Power | | +3dBm | +10dBm |
| Multiplier Factor | | X4 | |
| Output Frequency | 40GHz | | 60GHz |
| Output Power | +13dBm | +15dBm | |
| X3/X5 Harmonic Suppression | | -25 dBc | |
| Drain Voltage | | +5V | +8V |
| Current | | 250mA | |
| Spec Temp | | 25C | |





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Mechanical Information

| Item | Description |
|---------------|-------------|
| Input Port | SMA Female |
| Output Port | WR-19 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight | 190g |
| Size: | See outline |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +8V |
| RF Input Power | +15dBm |
| Operating Temperature | 0 to +50C |
| Storage Temperature | -65 to +150C |

Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.

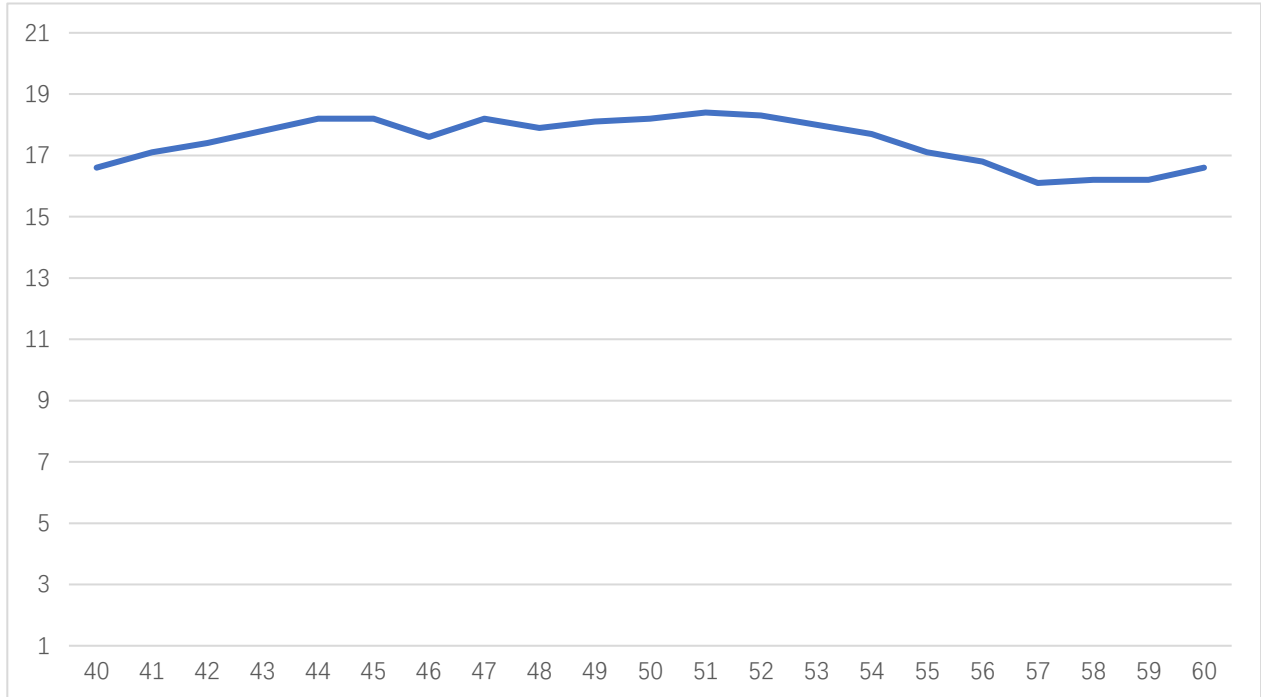




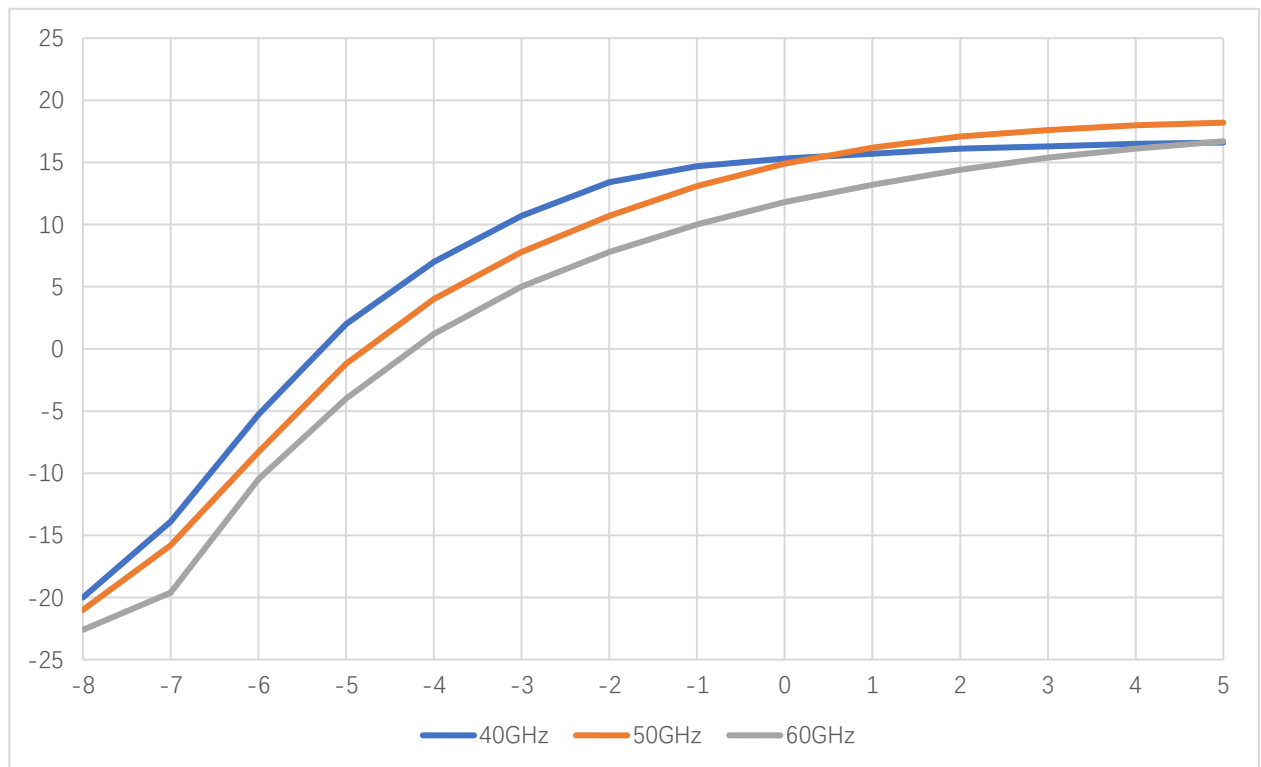
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Test data



Pout vs Frequency



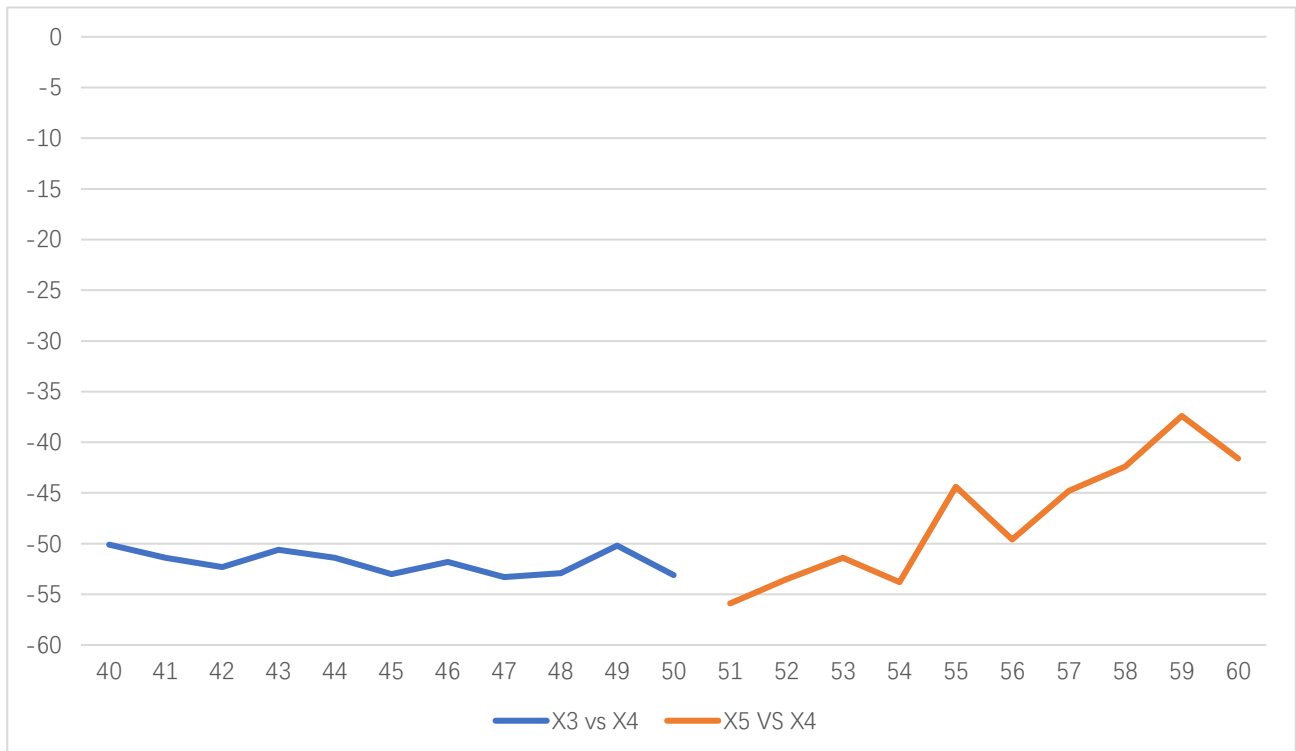
Pout vs Pin





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X3/X5 Harmonics vs X4 Pout



Dimension (Unit:mm)

