



AT-AM4-5075-15M

Active Multiplier x4, 50-75GHz Pout=+15dBm

Full V Band Active Multiplier 50-75GHz, Pout=+15dBm, WR-15

2022-7-12



Description:

AT-AM4-5075-15M is a full V band, active x4 frequency multiplier. The multiplier has an input frequency of 12.5-18.75 GHz with a typical output +15dBm 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. The input port is SMA female, and the output is WR-15. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 50-75GHz
- ✓ Pout: +15dBm typical
- ✓ Input: 12.5-18.75GHz
- ✓ Low Harmonics

Application

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

Electronical Specifications:

| Parameter | Min | Typical | Max |
|----------------------|---------|-----------|----------|
| Input Frequency | 12.5GHz | | 18.75GHz |
| Input Power | +8dBm | +10dBm | +12dBm |
| Multiplier Factor | | X4 | |
| Output Frequency | 50GHz | | 75GHz |
| Output Power | +13dBm | +15dBm | |
| Harmonic Suppression | | -15dBc | |
| Drain Voltage | | +5V/0.35A | +8V |
| Spec Temp | | 25C | |





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Mechanical Information

| Item | Description |
|---------------|-------------|
| Input Port | SMA Female |
| Output Port | WR-15 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight | 190g |
| Size: | See outline |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +9V |
| RF Input Power | +20dBm |
| Operating Temperature | 0 to +50C |
| Storage Temperature | -55 to +105C |

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.



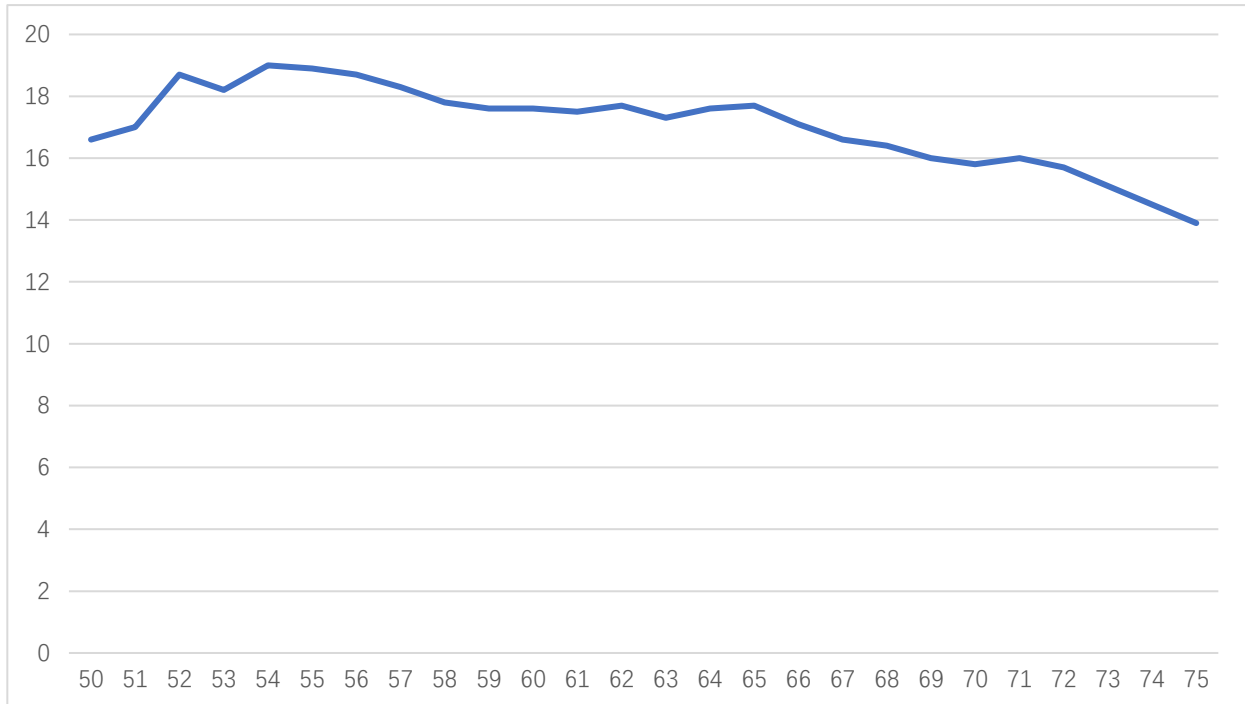


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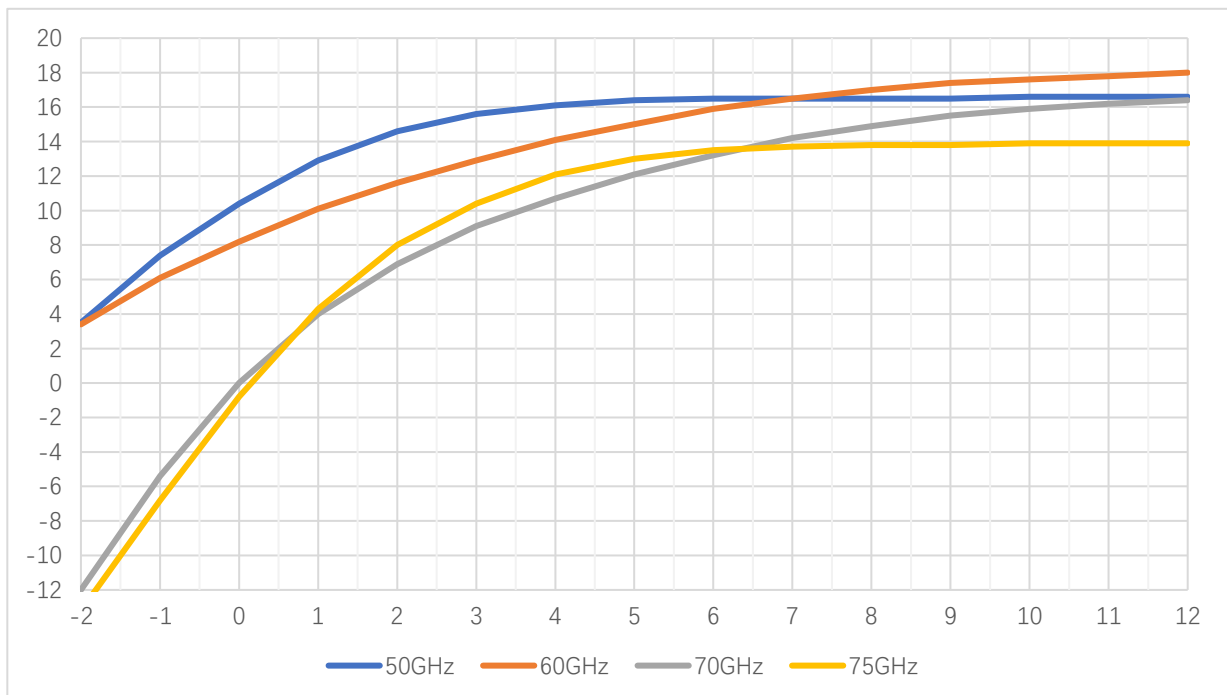
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Test Data (25C)

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

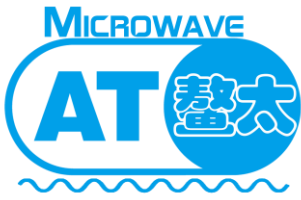


Pout vs Frequency, Pin=+10dBm



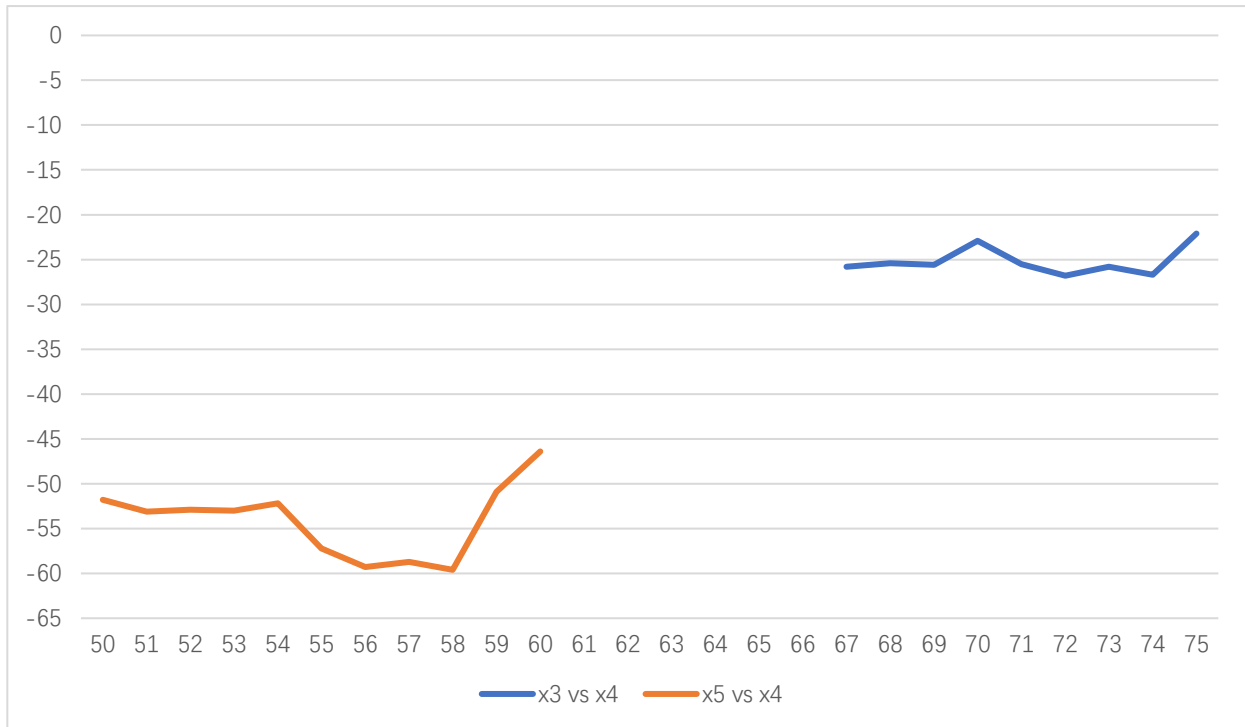
Pout vs Pin at 50/60/75GHz





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X3/X5 Harmonics vs X4 Pout



Dimension (in mm)

