



AT-AM4-4575-18

Active Multiplier x4, 45-75GHz Pout=+18dBm

2021-5-30

Full V Band Active Multiplier

Description:

AT-AM4-4575-18 is a full V band, active x4 frequency multiplier. The multiplier has an input frequency of 11.25-18.75 GHz with a typical output +18dBm from 45-75GHz.

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: 45-75GHz
- ✓ Pout: +18dBm typical
- ✓ Input: 11.25-18.75GHz
- ✓ Low Harmonics

Application

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

Electrical Specifications:

Parameter	Min	Typical	Max
Input Frequency	11.25GHz		18.75GHz
Input Power	+3	+5dBm	+10
Multiplier Factor		X4	
Output Frequency	45GHz		75GHz
Output Power	+15	+18dBm	
X3/X5 Suppression		-25dBc	
Drain Voltage		+5V/650mA	
Spec Temp		25C	





AT-AM4-4575-18

Active Multiplier x4, 45-75GHz Pout=+18dBm

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	WR-15
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	190g
Size:	60X30X20 mm

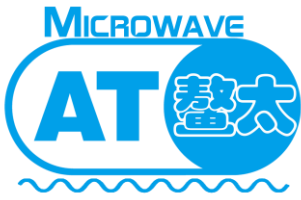
Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+7V
RF Input Power	+20dBm
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.

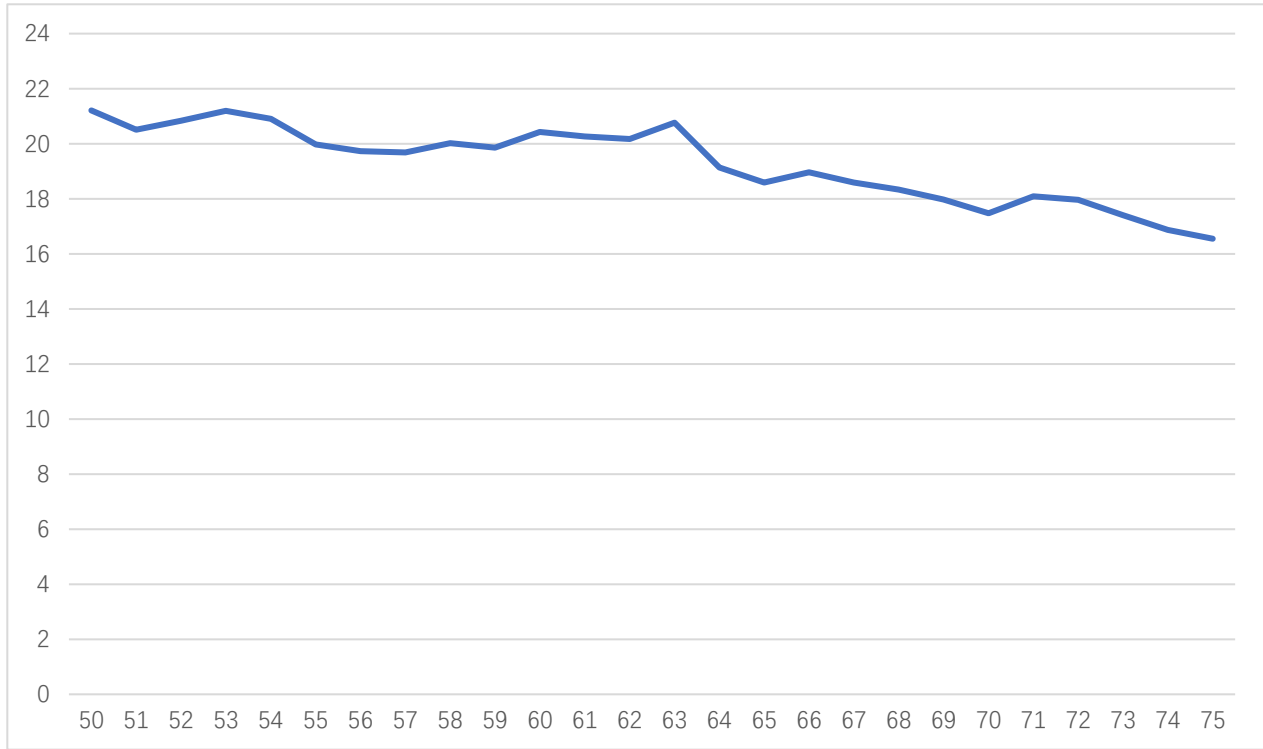




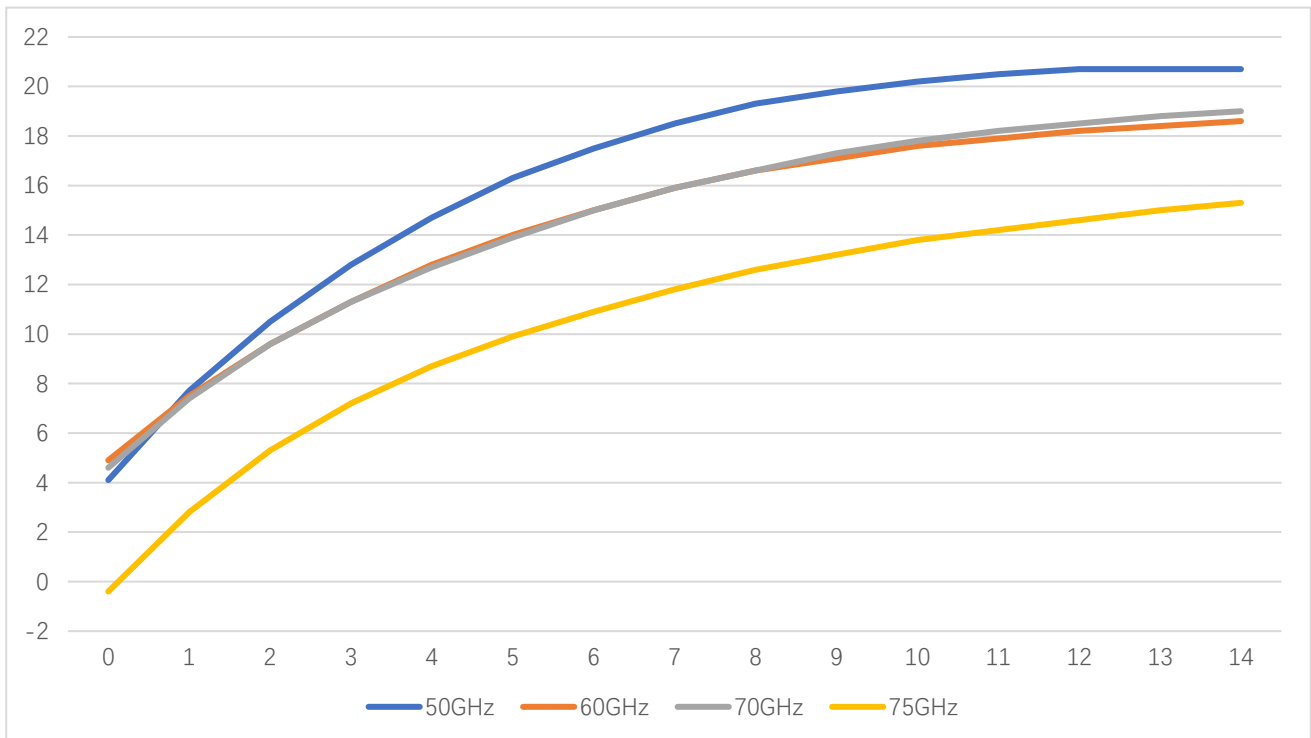
AT-AM4-4575-18

Active Multiplier x4, 45-75GHz Pout=+18dBm

Test Data:

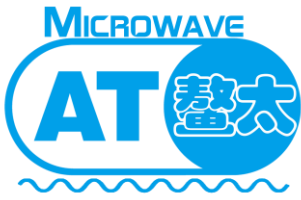


Pout vs Frequency



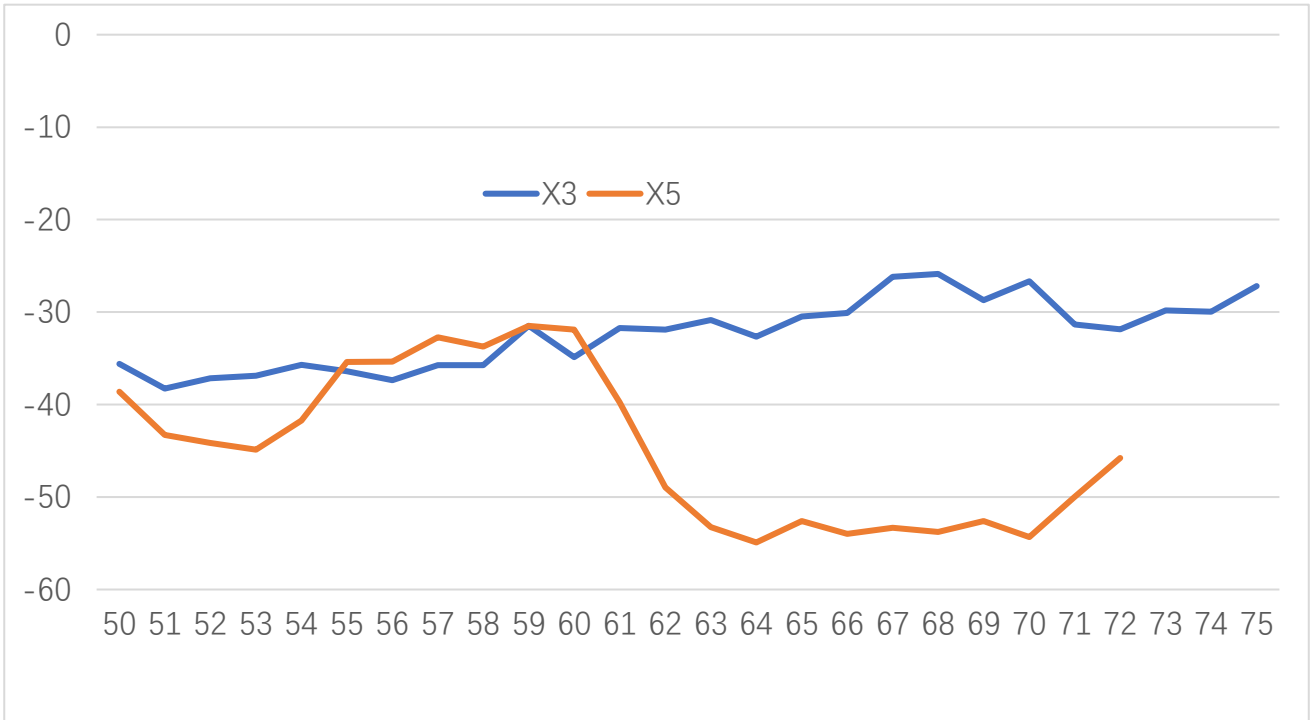
Pout vs Pin at 50/60/70/75GHz





AT-AM4-4575-18

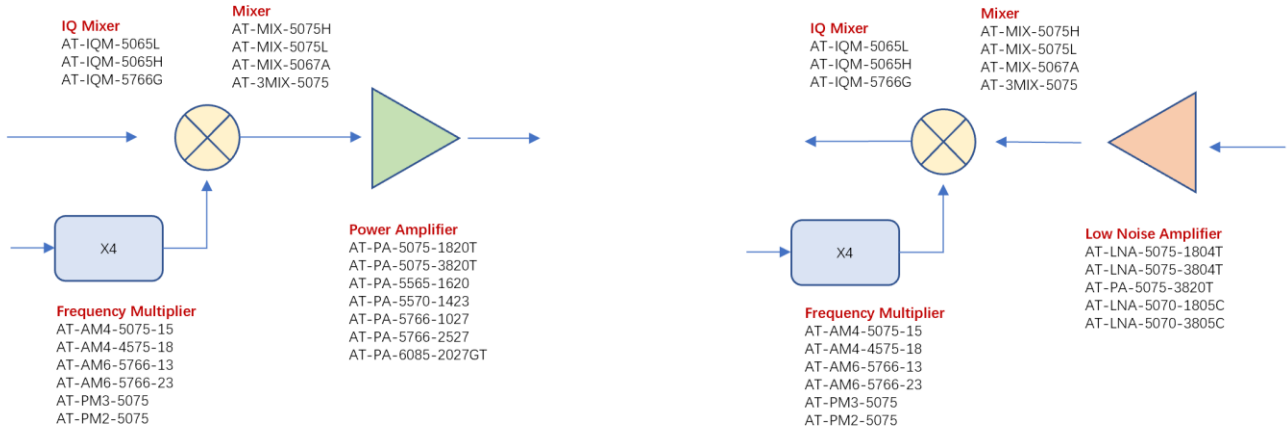
Active Multiplier x4, 45-75GHz Pout=+18dBm



X3/X5 Harmonics Suppression comparing with X4 Pout



V Band 50-75GHz



Dimension (in mm)

