

x6 V Band Active Multiplier

2023-5-5

57-66GHz, Pout=+13dBm, WR-15



Product Overview

AT-AM6-5766-13 is a V band, active x6 frequency multiplier. The multiplier has an input frequency of 9.5-11 GHz with a typical output +13dBm from 57-66GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -30dBc. The Multiplier can be used as LO for mixers, including AT-MIX-5075H, AT-MIX-5075L, AT-IQM-5065L.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 57-66GHz
Can be used at 55-75GHz
- ✓ Pout: +13dBm typical
- ✓ Input: 9.5-11GHz, +5dBm

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency	9.5GHz		11GHz
Input Power	+3dBm	+5dBm	+10
Multiplier Factor		X6	
Output Frequency	57GHz		66GHz
Output Power	+12dBm	+13dBm	+15dBm
Harmonic Suppression		-30dBc	
Drain Voltage		+5V	+8V
Current		240mA	
Spec Temp		25C	





AT-AM6-5766-13

Active Multiplier x6, 57-66GHz Pout=+13dBm

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	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

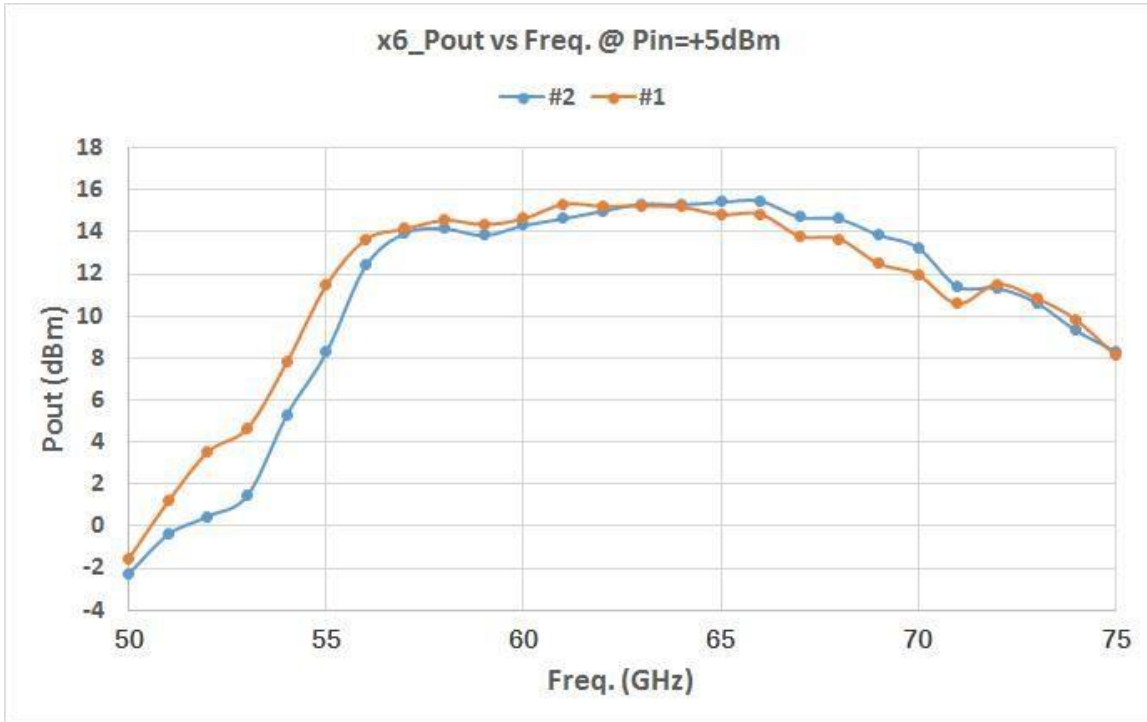
Notes:

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.

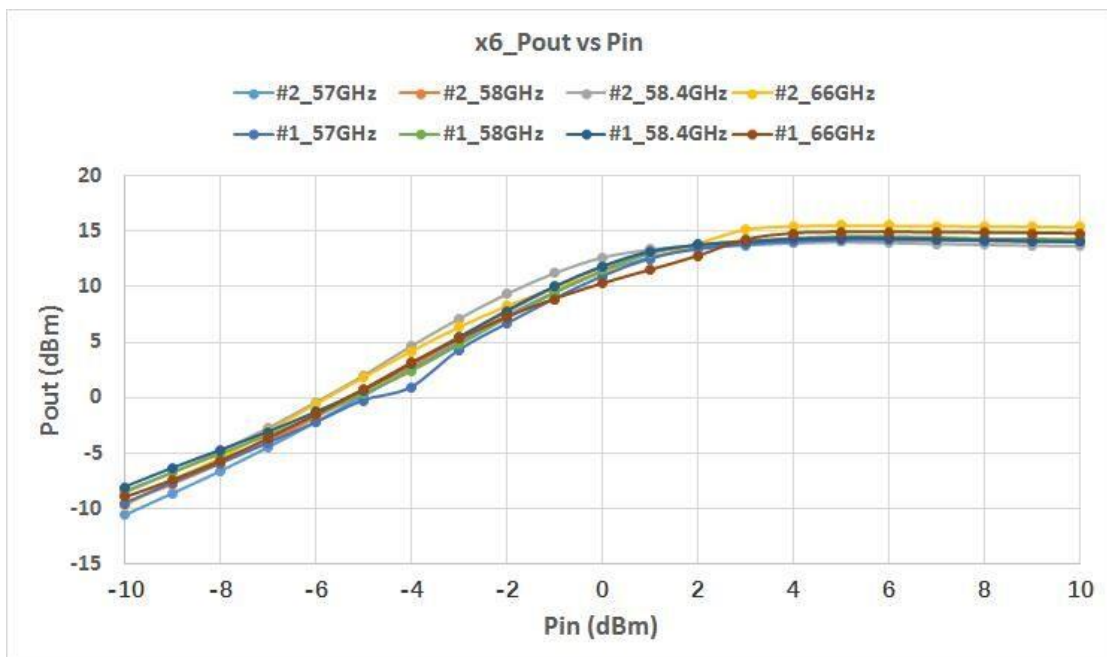


Test Data (25C)

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



Pout vs Frequency



Pout vs Input Power



Dimension: (Unit:mm)

