

X6 Full E Band Active Multiplier, Bench-Top

Product Overview



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

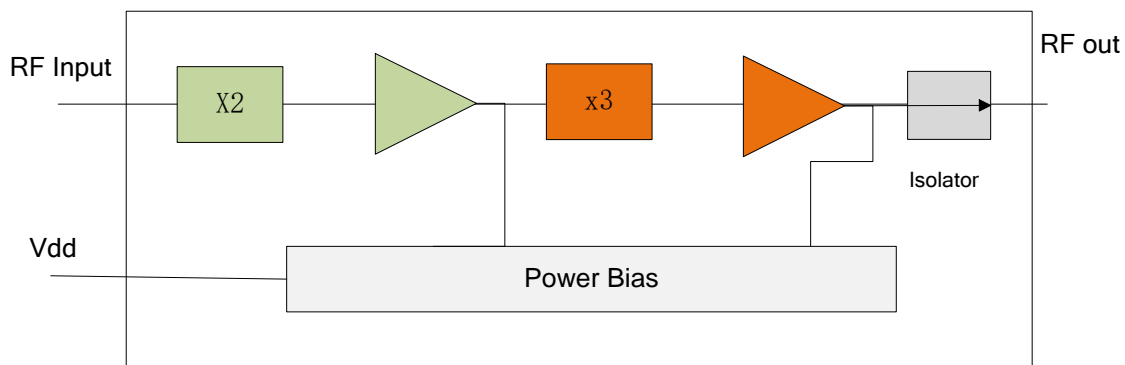
Advantages

- ✓ Frequency: 60-90GHz
- ✓ Pout: +10dBm typical
- ✓ Input: 10-15GHz, +13dBm
- ✓ Bench-Top Labs Test

Application

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

Diagram Block:





AT-BTAM6-6090-10

Bench-Top Active Multiplier x6

Key Features

Parameter	Min	Typical	Max
Input Frequency	10GHz		15GHz
Input Power	+8	+10dBm	+13dBm
Multiplier Factor		X6	
Output Frequency	60GHz		90GHz
Output Power		+10dBm	
Harmonica Suppression		-20dBc	
DC Voltage		+12V/500mA	
Input Port		SMA Female	
Input VSWR		1.2	1.35
Output Port		WR-12	
Dimension		207x120x74 mm	
Spec Temp		25C	

Mechanical Information:

Parameter	Value
RF Input	SMA Female
RF Output	WR-12 Waveguide with Flange
DC Bias	+12V Supply, AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Storage Temperature	-65 to +150C

Absolute Maximum Ratings Table

Parameter	Value
AC Supply	+240V
RF Input Power	+13dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C

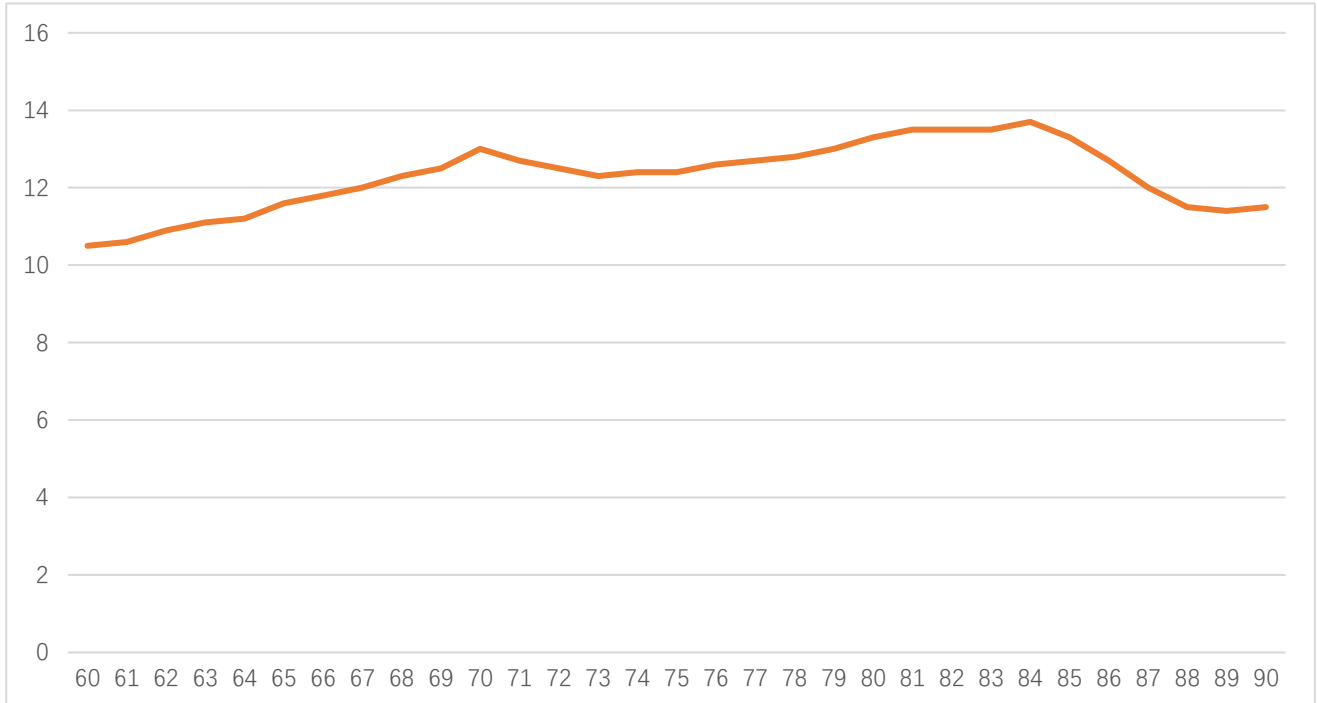




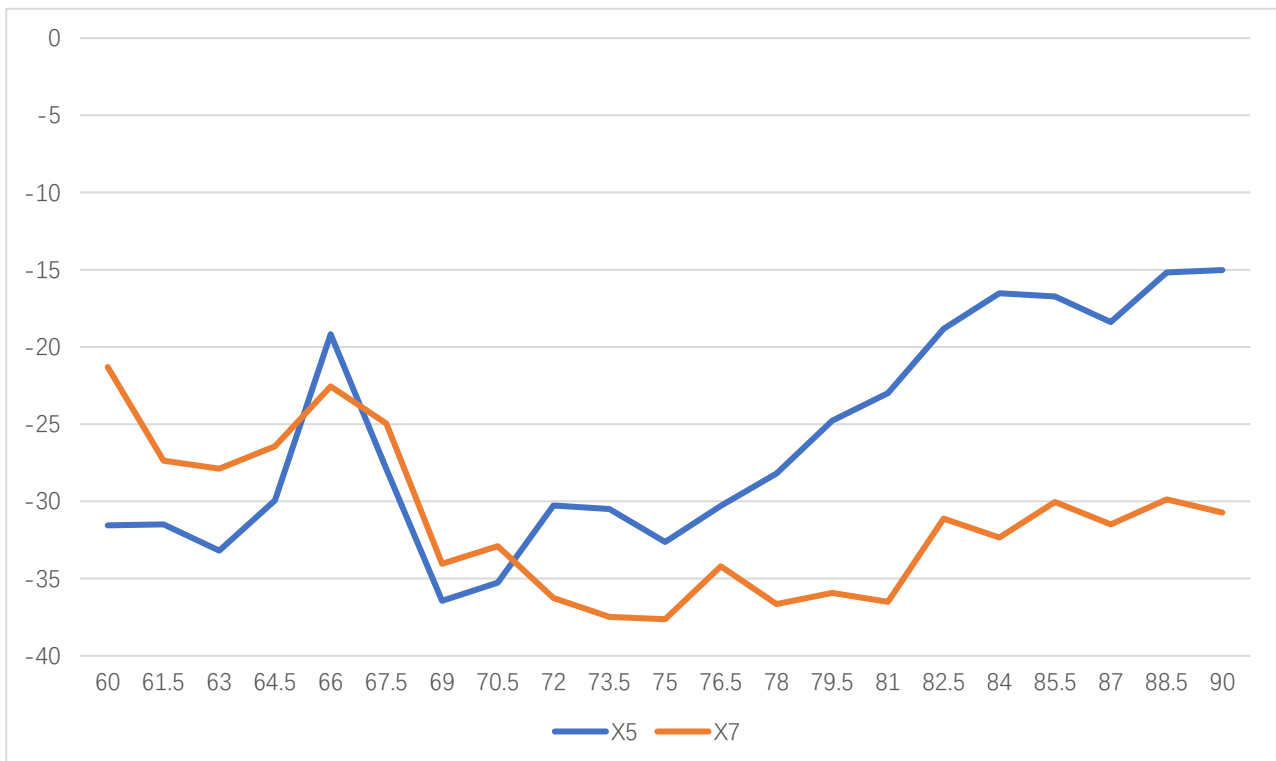
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Bench-Top Active Multiplier x6

Test Data:



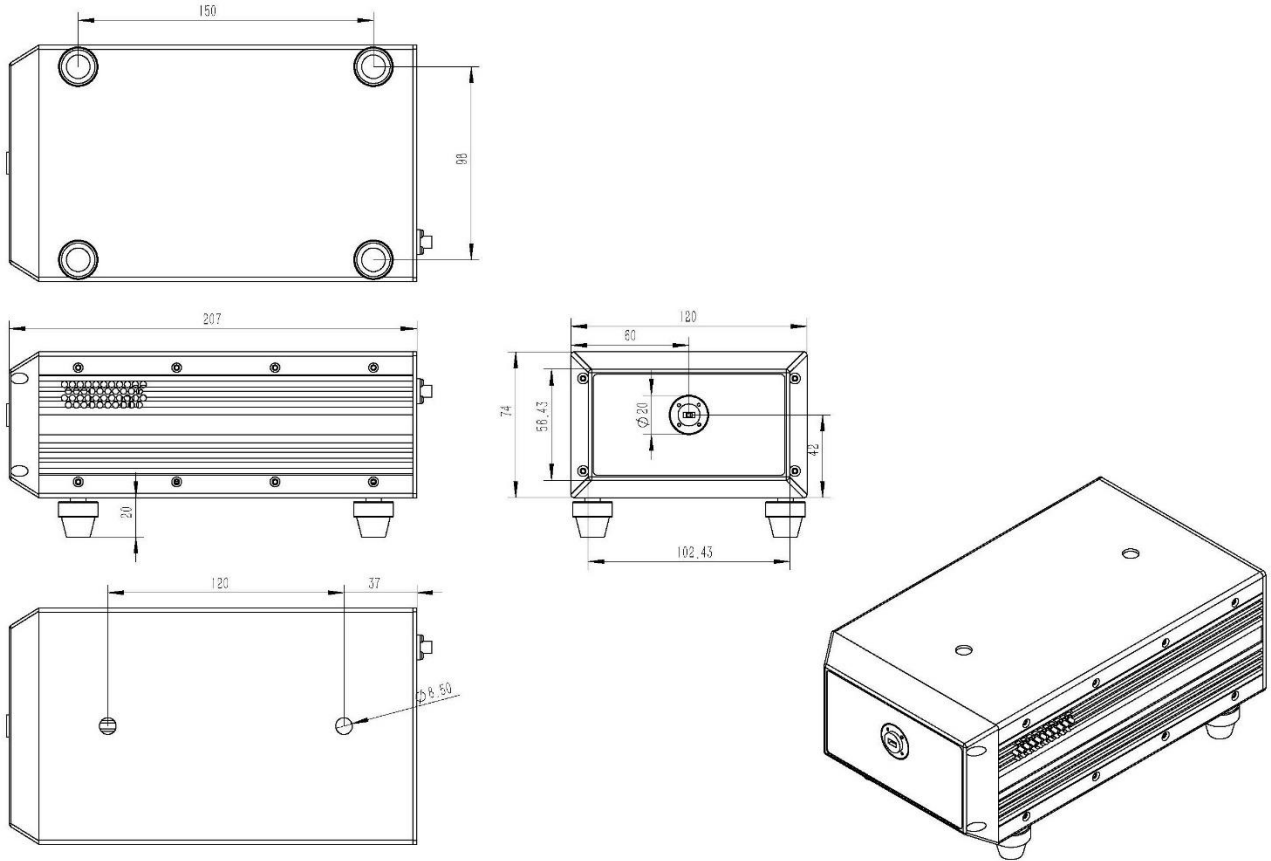
Pout vs Frequency



X5/X7 Harmonics suppression vs X6 Pout



Dimension:



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.

