

## AT-AM3-3050T-20XC

Active Multiplier x3, 30-50GHz Pout=+20dBm

# Active X3, 30-50GHz Broadband, High Power Pout=+20dBm, 2.4mm



#### **Description:**

AT-AM3-3050T-20XC is a broadband X3 frequency multiplier. The multiplier has an input frequency of 10-17 GHz with a typical output +20dBm from 30-50GHz.

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 2.4mm Female. Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

#### **Feature**

✓ Frequency: 30-50GHz ✓ Pout: +20dBm typical ✓ Input: 10-17GHz

Low Harmonics

#### **Application**

- 28/39GHz 5G Communication
- Test Equipment
- ROF (RF Over Fiber)
- Radar System

### **Electronical Specifications:**

Parameter	Min	Typical	Max
Input Frequency	10GHz		25GHz
Input Power	+2	+5dBm	+8dBm
Multiplier Factor		X3	
Output Frequency	30GHz		50GHz
Output Power	+18dBm	+20dBm	
X1/X2 Harmonic Suppression		-20dBc	
Drain Voltage		+5V	+8V
Current		500mA	800mA
Spec Temp		25C	





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#### **Mechanical Information**

Item	Description
Input Port	SMA Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	80g
Size:	See outline

#### **Absolute Maximum Ratings Table**

Parameter	Value
Drain Supply	+13V
RF Input Power	+15dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

#### 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.

#### Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter









**Shanghai AT Microwave Limited** 



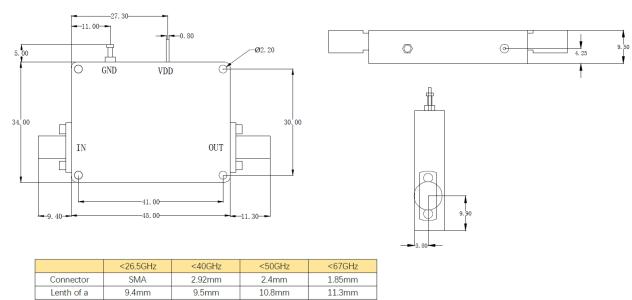
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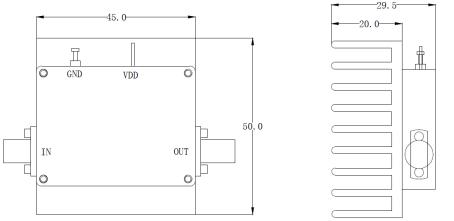
### Test Data (25C)

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

### **Dimension:** (Unit:mm)



Note: Female Default. Contact with us for other types.



Including a small heatsink without Fan if output Power higher than +20dBm.

Customers can removed it or use their own heatsink according to actual situation.

Heat Sink Required During Operation if case Temp higher than 50C

