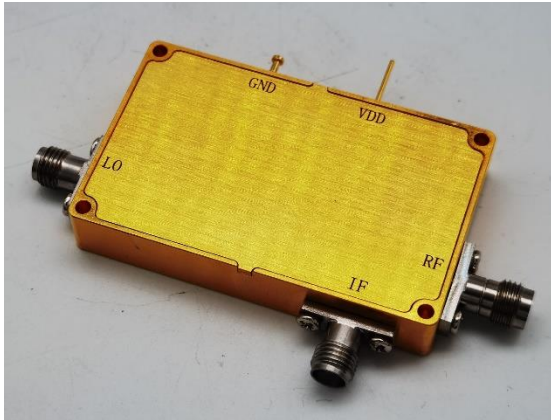


### 18-44GHz Rx Module, 2.92mm Integrated X4 Multiplier LO Port

2022-4-25



#### Description:

AT-Rx-1844HG is an Rx Module covering 18-44GHz based on GaAs MMIC technology.

RF Port frequency range is from 18-44GHz with 2.92mm connector. LO range is 4.5-11GHz as X4 multiplier inside on LO chain. IF port frequency from DC to 20GHz with SMA Female connector.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

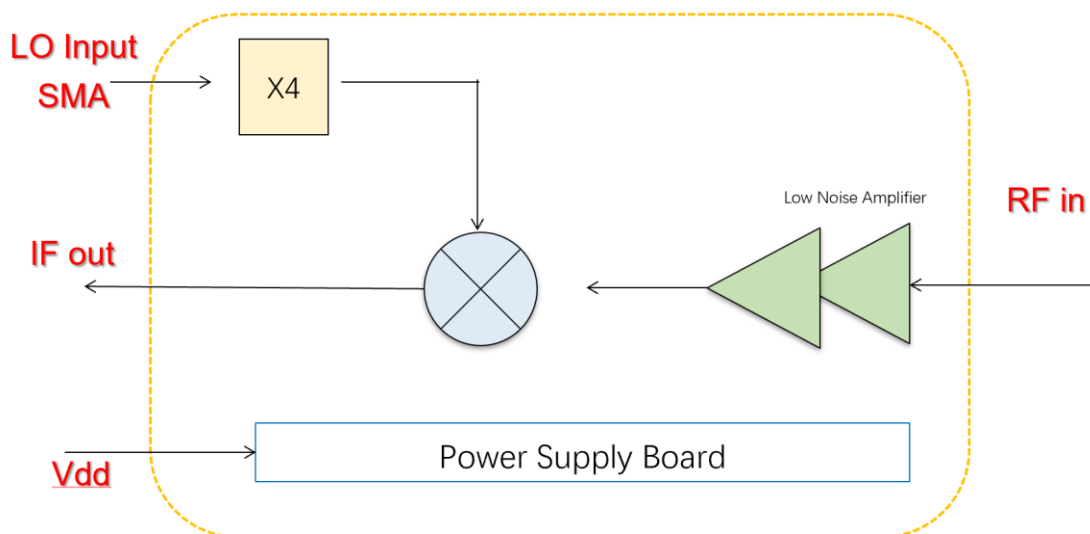
#### Feature

- ✓ RF Range: 18-44GHz
- ✓ LO Range: 4.5-11GHz
- ✓ High Gain: 25dB
- ✓ Low NF=3dB

#### Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Diagram Block





# AT-RX-1844HG

18-44GHz Rx Module Integrated with x4

## Electronical Specifications: (IF=100MHz if not specified)

Parameter	Min	Typical	Max
RF Frequency		18-44GHz	
IF Range		DC-20GHz	
Conversion Gain	20dB	25dB	
LO Input Frequency		4.5-11GHz	
LO Driver	+3dBm	+5dBm	+7
LO Multiplier Factor		X4	
NF		3dB	4.5dB
Vdd		+5V	+8V
Idd		0.3A	
Spec Temp		25C	





# AT-RX-1844HG

18-44GHz Rx Module Integrated with x4

## Mechanical Information

Item	Description
RF Port	2.92mm
LO Port	SMA Female
IF Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight	TBD
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
RF Power	+10dBm
LO Power	+23dBm
Vdd	+9V
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

## Test Data (25C)

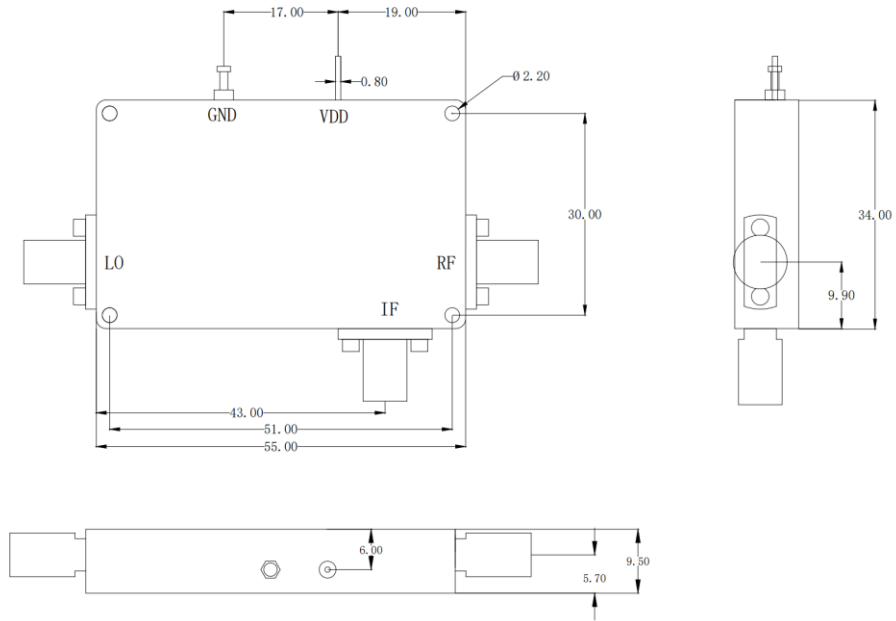
Please note that test curves will vary slightly from unit to unit.  
TO BE ADDED

## Notes:

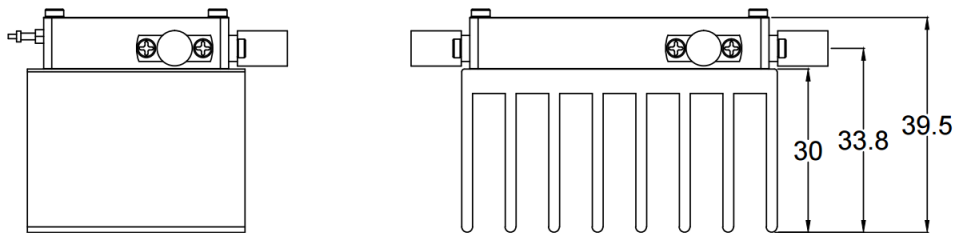
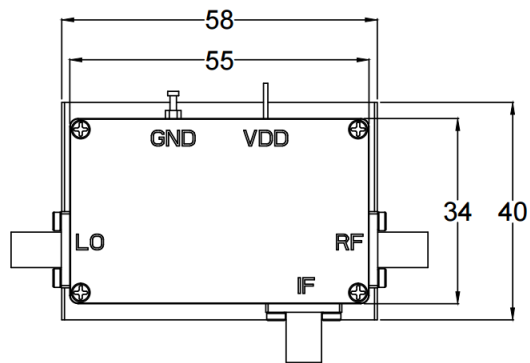
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



### Dimension (mm)



Outline without heatsink



Outline with small heatsink in default,  
which can be removed according to customer's actual application.

