

## 92-96GHz Receiver, High Gain, NF=4dB

### Product Overview



AT-WRX-9296IQ is high gain W-Band receiver. The receiver is integrated with High Performance GaAs MMIC chips, with Gain=23dB, NF=4dB. RF frequency range is 92-96GHz, LO range is 11.25-12.5GHz with x8 time active multiplier inside. IF range DC-10GHz with I and Q ports output. Single end IF output is available according to request.

The receiver is with compact size. LO/IF port is with SMA, and RF port is with standard WR-10.

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

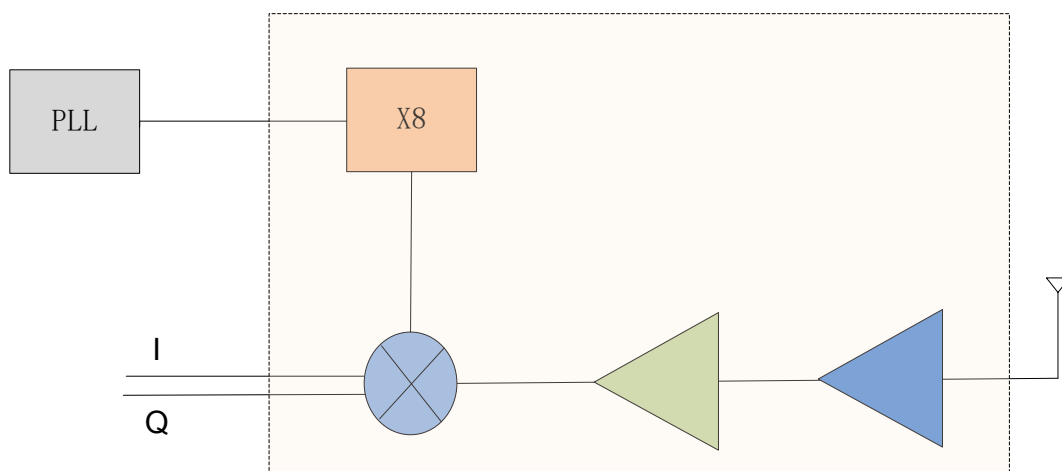
### Feature

- ✓ Frequency: 92-96GHz
- ✓ Gain: +23dB typical
- ✓ IF Range: DC-10GHz
- ✓ Single Power Supply

### Application

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

### Diagram Block





# AT-WRX-9296IQ

Compact W Band Receiver, 92-96GHz, Gain 23dB

## Key Features

Parameter	Min	Typical	Max
RF Frequency	90GHz	92-96GHz	
Input Power		-40 dBm	-15
LO Frequency	11.25GHz		12.5GHz
LO Multiplier Factor		X8	
LO Power	0	+5dBm	+8dBm
IF Frequency(I Q Ports)		DC-10 GHz	
RF to IF Gain	20	23 dB	
Imaging Rejection (with external 90 Hybrid)	10	20dBc	
Drain Power Supply		+5/270mA	+6V
RF Port		WR-10	
LO Port		SMA Female	
IF Port		SMA Female	

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	-5 dBm
LO Port Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## 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.



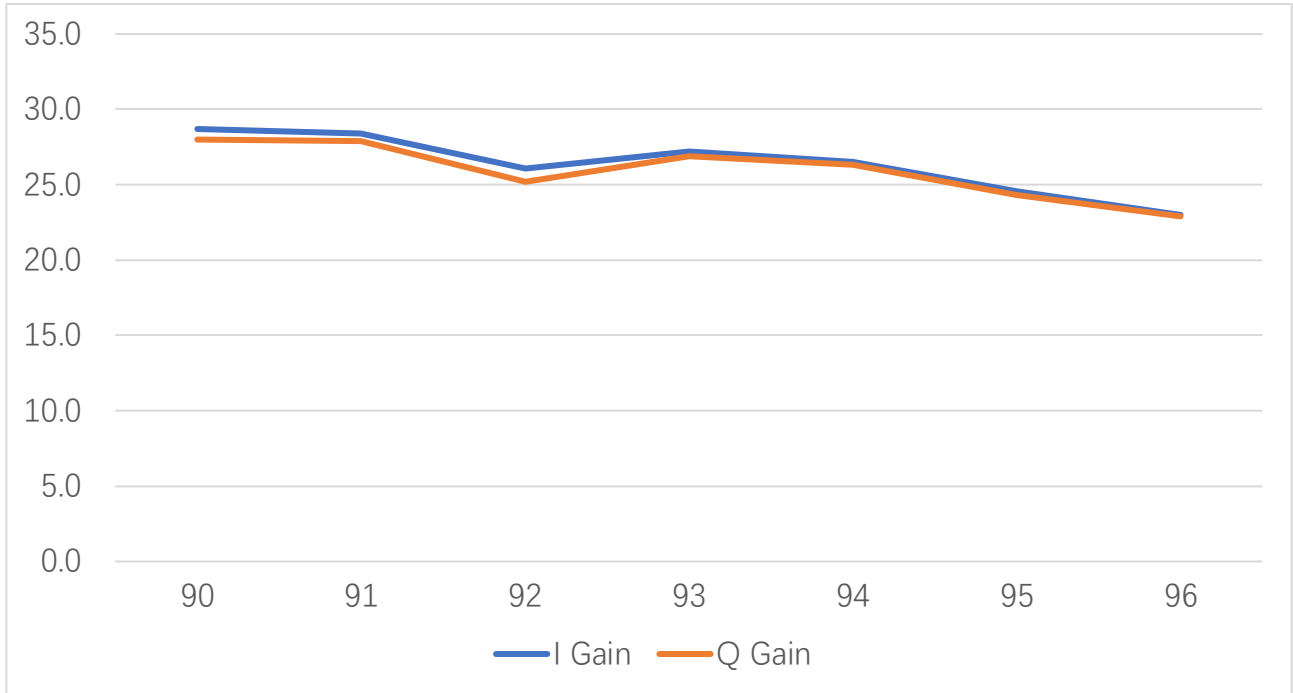


# AT-WRX-9296IQ

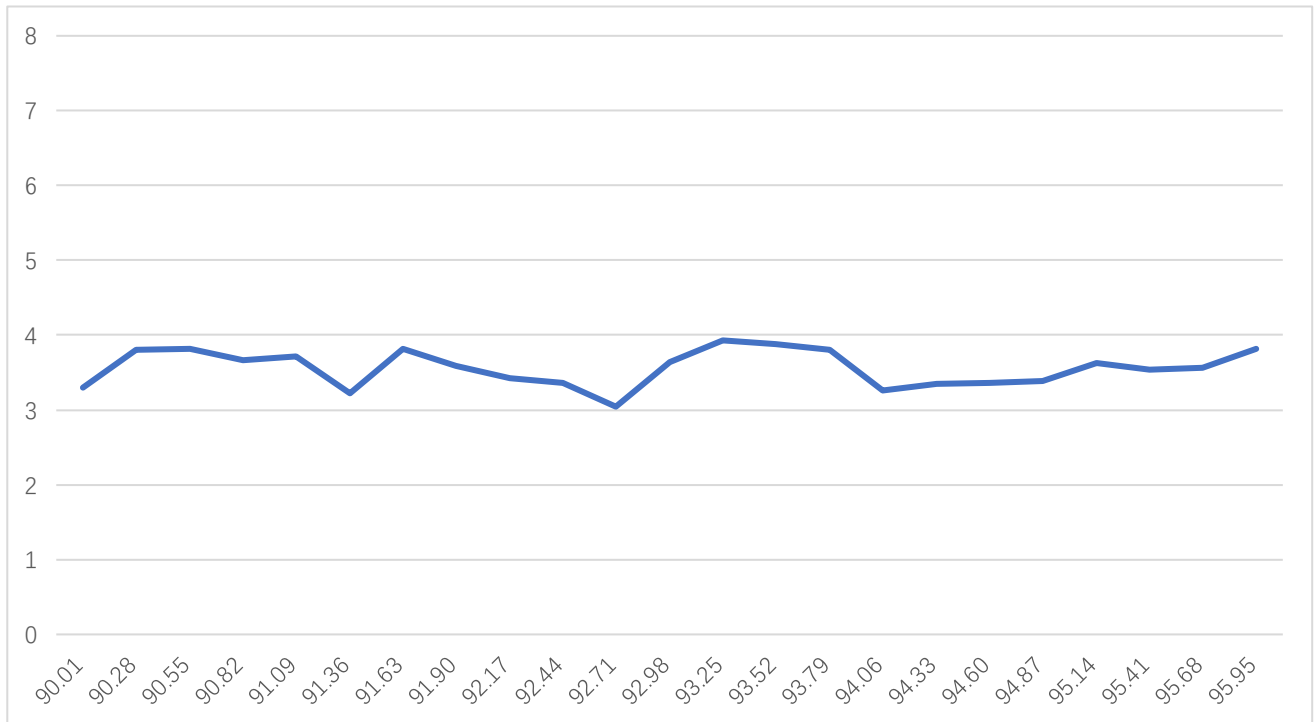
Compact W Band Receiver, 92-96GHz, Gain 23dB

## Test Data:

RF input=-40dBm, IF=1GHz, 25C



Rx single I Q chain gain vs Frequency



NF Vs Frequency



## Dimension (unit mm)

