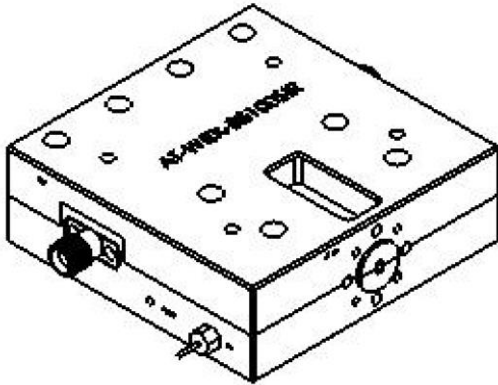


## 88-100GHz Differential IQ Receiver, High Gain, NF=4dB, WR-10



### Product Overview

AT-WRX-88100IQD is high gain W-Band Differential IQ receiver. The receiver is integrated with High Performance GaAs MMIC chips, with Gain=20dB, NF=4dB. RF frequency range is 88-100GHz, LO range is 11-12.5GHz with x8 time inside. IF frequency range is DC-10GHz.

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)

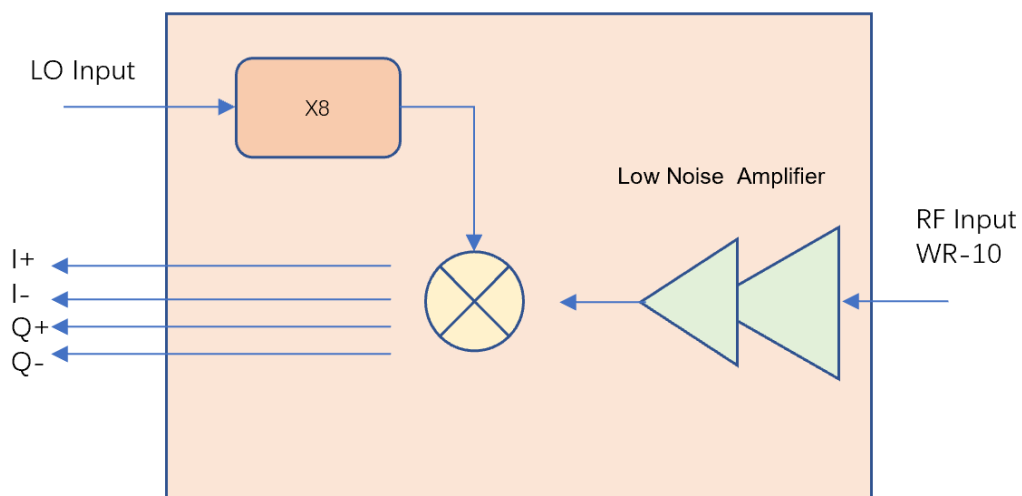
### Feature

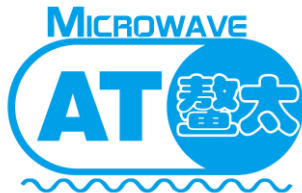
- ✓ Frequency: 88-100GHz
- ✓ Gain: +20dB typical
- ✓ IF Range: DC-10GHz
- ✓ High gain: 20dB
- ✓ Single Power Supply

### Application

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

## Diagram Block





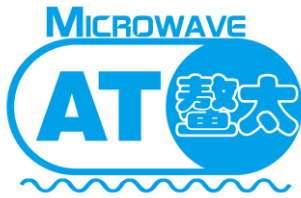
# AT-WRX-88100IQD

Differential IQ Receiver, 88-100GHz, Gain 20dB

## Key Features

Parameter	Min	Typical	Max
RF Frequency		88-100GHz	
Input Power		-40 dBm	-10dBm
LO Frequency		11-12.5GHz	
LO Multiplier Factor		X8	
LO Power	0	+3dBm	+5dBm
IF Frequency		DC-10GHz	
RF to IF Gain (IF=100MHz)	15dB	20 dB	
NF		4 dB	6
Drain Power Supply		+5	+8V
Current		300mA	
Spec Temp		+25C	





# AT-WRX-88100IQD

Differential IQ Receiver, 88-100GHz, Gain 20dB

## Mechanical Information

Parameter	Description
RF Port	WR-10
LO Port	SMA Female
IF Port	SMA Female
Case Material (Note)	Copper
Finish	Gold Plated
Weight	450g
Dimension	See outline

Note: Aluminium for lighter weight is available according to request

## Absolute Maximum Ratings Table

Parameter	Value
RF Power	+5dBm
LO Port	+15dBm
Power Supply	+7V
Operating Temperature	0 to +50C
Storage Temperature	-55 to +125C

## 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)

