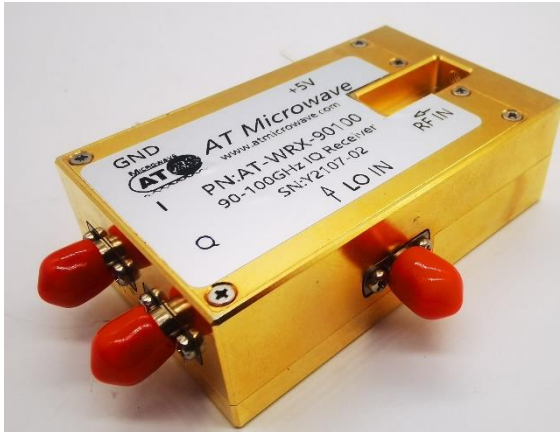


W Band Receiver, 90-100GHz



Product Overview

AT-WRX-90100 is a W-Band receiver. The receiver is integrated with High Performance GaAs MMIC chips. RF frequency range is 90-100GHz, LO range is 11.25-12.5GHz with x8 time inside. IF range is DC-10GHz, with conversion gain about 5dB.

The receive is with compact size. LO/IF port is with SMA, and RF port is with standard WR-10. "C" stands for Compact size with positive and negative supply. We can make a single power supply with a little big size, contact with us if you need a single supply option.

More information, please visit www.atmicrowave.com

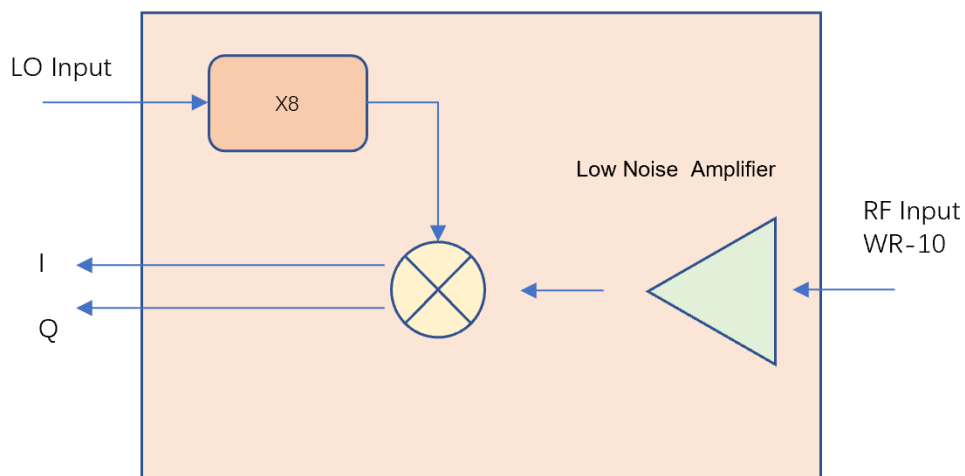
Feature

- ✓ Frequency: 90-100GHz
- ✓ Gain: +5dB typical
- ✓ IF Range: DC-10GHz
- ✓ Single Power Supply

Application

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

Diagram





AT-WRX-90100

Compact W Band Receiver, 90-100GHz, Gain 5dB

Key Features

Parameter	Min	Typical	Max
RF Frequency	90GHz		100GHz
IF Frequency		DC-10GHz	
LO Multiplier		X8	
LO Frequency	11.25GHz		12.5GHz
LO Power	0	+5dBm	+8dBm
RF to IF Gain (Combined IQ)		5 dB	
NF		7dB	
Power Supply		+5	+8V
Current		0.3A	
Spec Temp		25C	





AT-WRX-90100

Compact W Band Receiver, 90-100GHz, Gain 5dB

Mechanical Information

Parameter	Description
RF Port	WR-10
LO Port	SMA Female
IF Port	SMA Female
Case Material (Note)	Copper
Finish	Gold Plated
Weight	180g
Dimension	See outline

Note: Aluminium for lighter weight is available according to request

Absolute Maximum Ratings Table

Parameter	Value
RF Power	+7dBm
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.

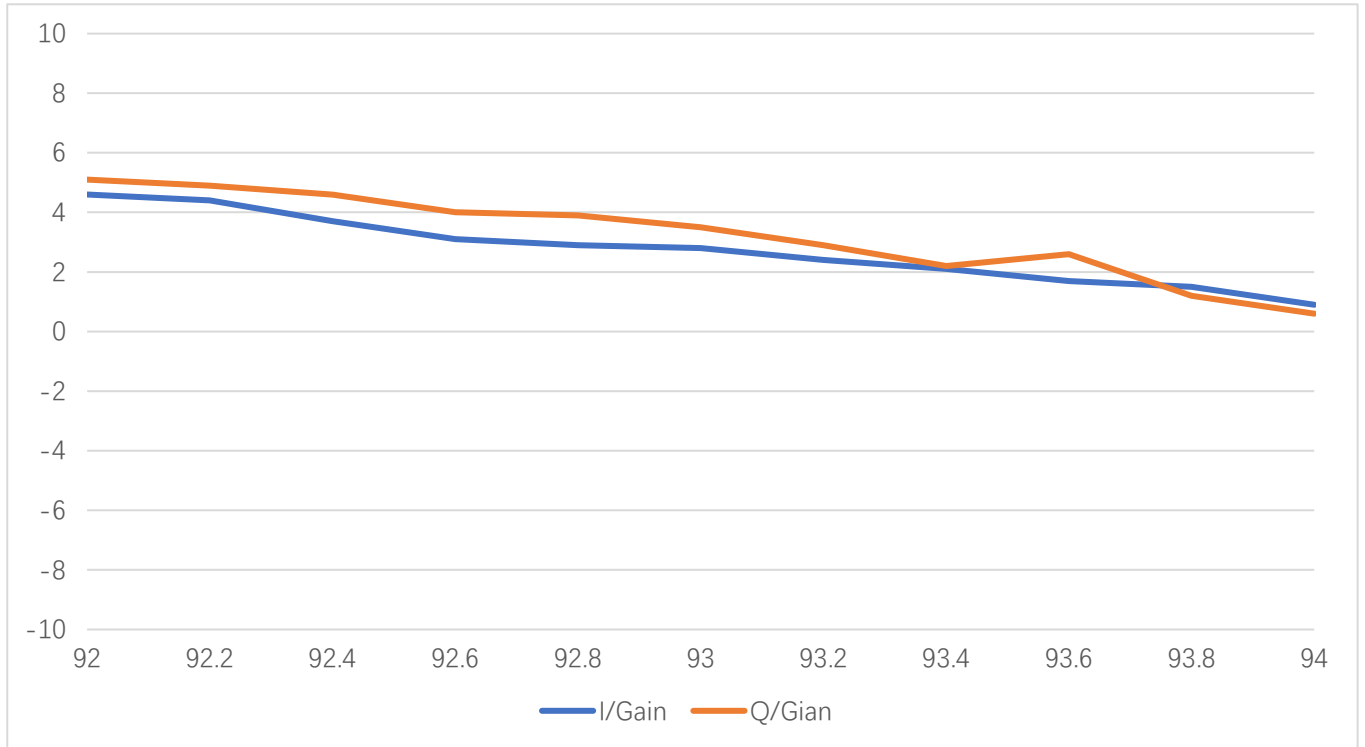




AT-WRX-90100

Compact W Band Receiver, 90-100GHz, Gain 5dB

Test Data(25C)



Gain Vs Frequency at IF=1GHz



Dimension(mm)

