

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 receiver 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
- ✓ Fixed Drain Supply: +5V, LDO inside
- ✓ Fixed Gate Supply: -5V, LDO inside

Application

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

Key Features

Parameter	Min	Typical	Max
RF Frequency	90GHz		100GHz
Input Power		-60 dBm	-10
IF Frequency	DC	6GHz	10GHz
LO Frequency	11.25GHz		12.5GHz
LO Power	0	+5dBm	+8dBm
RF to IF Conversion Gain		5 dB	
Drain Power Supply (Note1)		+5/270mA	+5.5V
Gate Power Supply (Note2)		-5V	

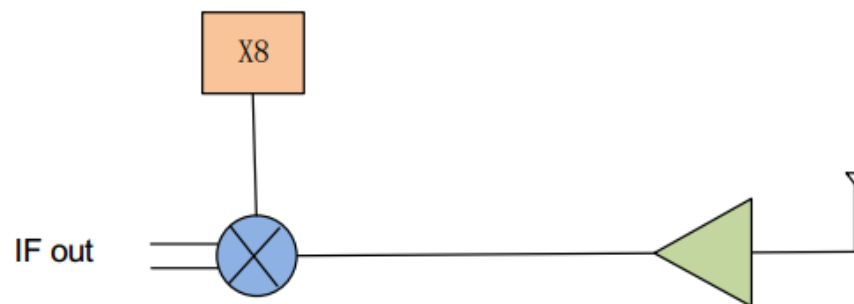
Note 1: Fixed +5V drain supply, LDO inside

Note 2: Fixed -5V gate supply, LDO inside, no need to adjust Vg.



Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+5.5V
Gate Supply	0V
RF Input Power	+0dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C



Power Procedure (Very Important)

TURN ON: Make sure apply -5V first, then +5V.

TRUN OFF: Make sure turn off +5V first, then -5V

Wrong power procedure will damage the multiplier



Dimension

