

86-106GHz W Band Receiver, High Gain 30dB, Low NF=4dB

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Product Overview

AT-WRX-86106SIF is high gain W-Band receiver. The receiver is integrated with High Performance GaAs MMIC chips, with Gain=30dB, NF=4dB. RF frequency range is 86-106GHz, LO range is 10.75-13.25GHz with x8 time inside.

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

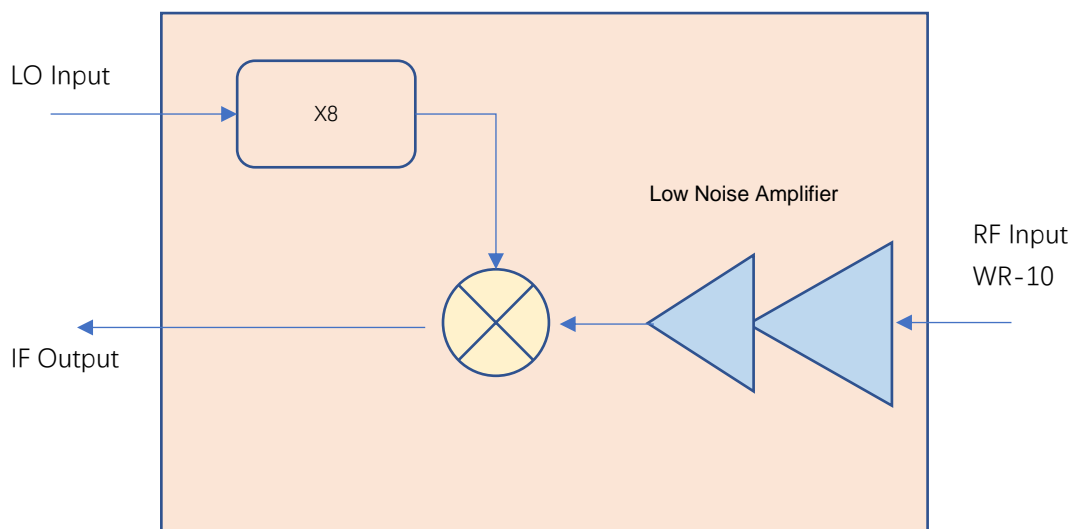
Feature

- ✓ Frequency: 86-106GHz
- ✓ Gain: 30dB typical
- ✓ IF Range: DC-20GHz
- ✓ Single Power Supply

Application

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

Diagram Block





AT-WRX-86106SIF

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Key Features

Parameter	Min	Typical	Max
RF Frequency		86-106GHz	
LO Frequency		10.75-13.25GHz	
8XLO Frequency Range		86-106GHz	
LO Multiplier Factor		X8	
Mixer Type		Fundamental Mixer	
LO Power	0	+3dBm	+5dBm
IF Frequency		DC-20GHz	
dRF to IF Gain (IF=100MHz)	25dB	30 dB	
NF		4 dB	6dB
RF Input P1dB		-40dBm	
Damage RF Input Power			+10dBm
Drain Power Supply		+5	+8V
Current		0.25A	
Spec Temp		+25C	





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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	+10dBm
LO Port	+15dBm
Power Supply	+7V
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

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 (unit mm)

