

W-Band Receiver Module: 92 - 96 GHz

Product Overview

Celtonn's WB-RX-9296-LN is a highly sensitive W-Band Receiver nominally works from 92-96GHz but can be customized to work in most of the W-Band Frequencies.

Features and Benefits

- Low Noise Figure of 3.5dB enhances sensitivity with a minimum usable sensitivity of less than -100dBm.
- The receiver module can be operated with a LO frequency of 10.5-11.5GHz or 21-23GHz.
- RF connection is through WR10 waveguide.

Applications:

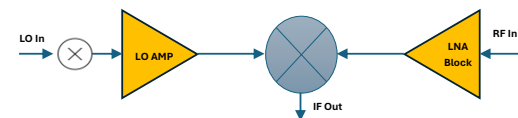
- This integrated Receiver can be used with WB-TX-9296MP in a RF front end for broadband space to space, air to air and ground to air communications using a synthesised source.
- The WB-RX-9296LN can be used in mmWave Radar systems in conjunction with WB-TX-9296MP.

Option:

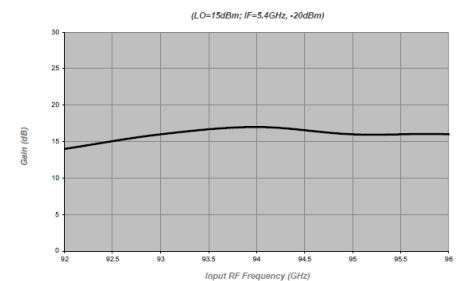
- Integrated LO synthesised source for communication applications.



Block Diagram



Performance Sample



Performance Overview				
Spec	Min	Typ	Max	Unit
RF Input	91		97	GHz
RF Output	1		7	GHz
LO GHz	10.5/21		11.5/23	GHz
LO Power	10	12	18	dBm
Noise Figure		3.5		dB
Gain		15		dB
Voltage		5	7	V
Current		600		mA