

LiFi Receiver

General Description

LiFi Receiver is a custom-design front-end for visible light communications (VLC). It has a wide bandwidth (20 MHz) to support even the most demanding video streaming applications. The receiver features a photodetector with a field-of-view of 170° enabling a robust performance in non line-of-sight conditions.

Features

- Plug-and-play solution for VLC R&D
- Compatible with NI platforms USRP and PXI
- 25 MHz bandwidth
- 170° detector FOV
- NLOS Operation
- Interchangeable lens mechanism
- 50 Ohm I/O impedance



Receiver Module

Specifications	
DC Input Voltage (Max)	24 V
AC Output Voltage (Typical)	200m Vpp
3dB Bandwidth	100kHz to 25 MHz
Output Impedance	50 Ohms
Operating Temperature	5° to 35° C
Storage Temperature	0° to 50°
Package	LiFi Receiver 1" Lens Holder 24V Power Supply
Part Number	LIFIRXFE

Optical Specifications

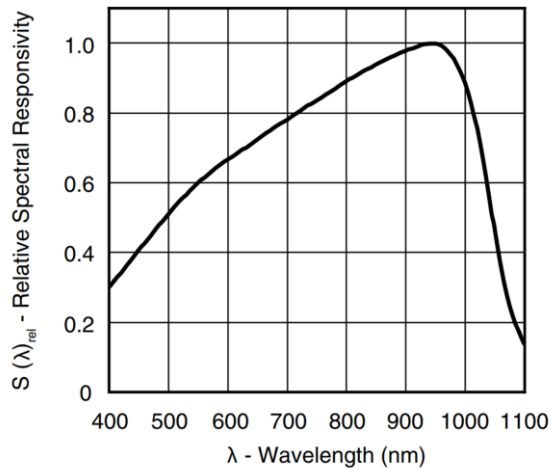


Fig. 1 - Optical Responsivity Graph

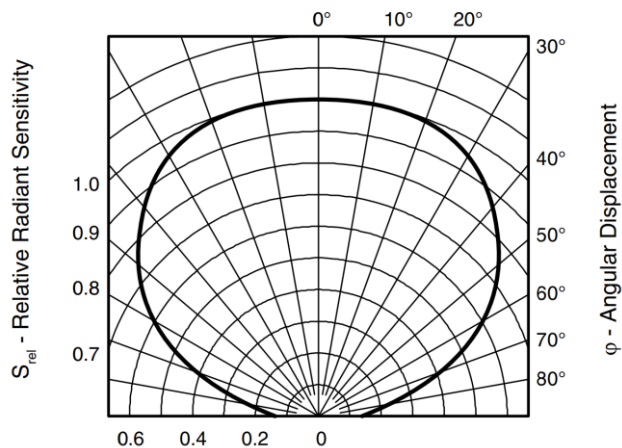


Fig. 2 - Relative Radiant Sensitivity vs. Angular Displacement

Electrical Specifications

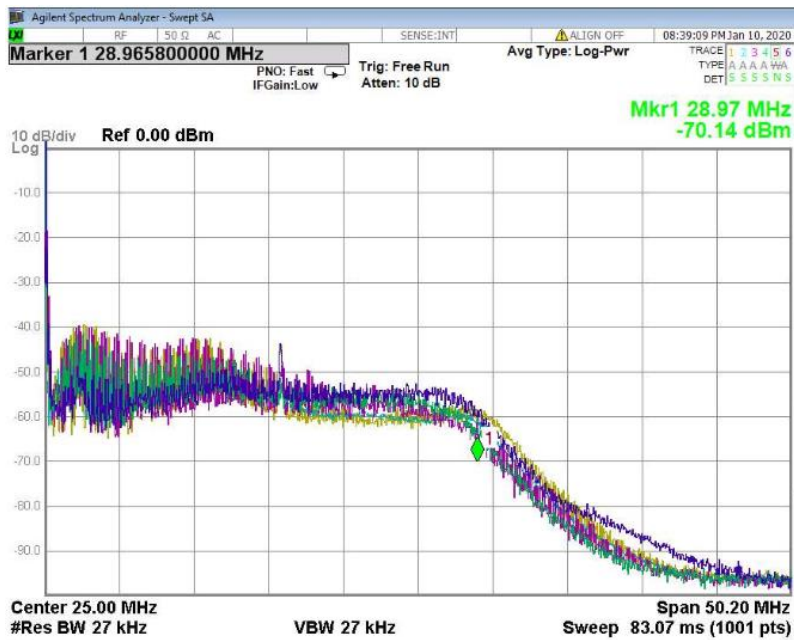


Fig. 3 – Maximum Noise Level
(Measured in ambient light)

Mechanical Specifications

