

# LiFi Transmitter

## General Description

The LiFi Transmitter is a custom-design front-end for visible light communications (VLC). It has a wide bandwidth (25 MHz) to support even the most demanding video streaming applications. The transmitter has a powerful 5000K 186 lumen LED with an interchangeable lens mechanism.

## Features

- Plug-and-play solution for VLC R&D
- Compatible with NI platforms USRP and PXI
- 25 MHz bandwidth
- Interchangeable lens mechanism
- 186 Lumen power LED
- 50 Ohm I/O impedance



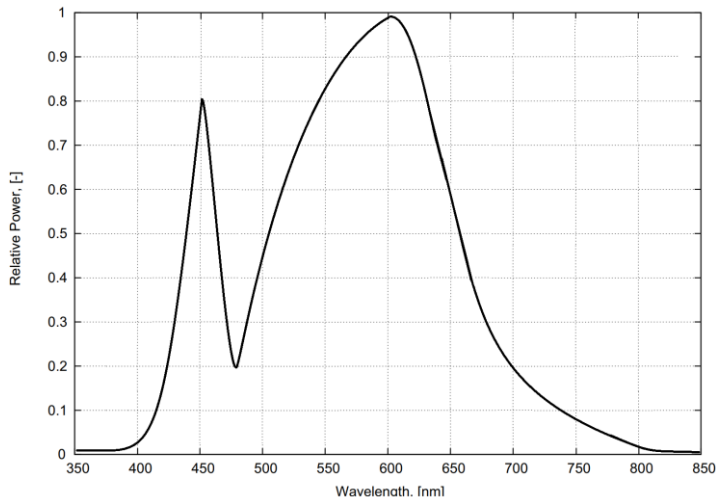
Transmitter Module

## Specifications

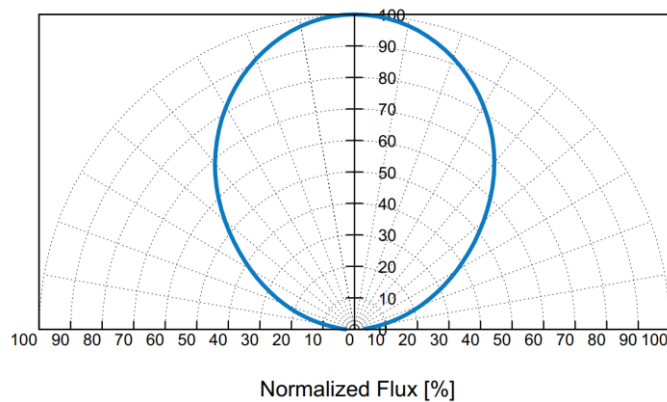
DC Input Voltage (Max)	5 V
AC Input Voltage (Max)	200m Vpp
Input Impedance	50 Ohms
3dB Bandwidth	100kHz to 25 MHz
Optical Output (Max)	186 Lumen - 5000K
Operating Temperature	5° to 35° C
Storage Temperature	0° to 50° C
Package	LiFi Transmitter 1" Lens Holder 5V Power Supply
Part Number	LIFITXFE

# Optical Specifications

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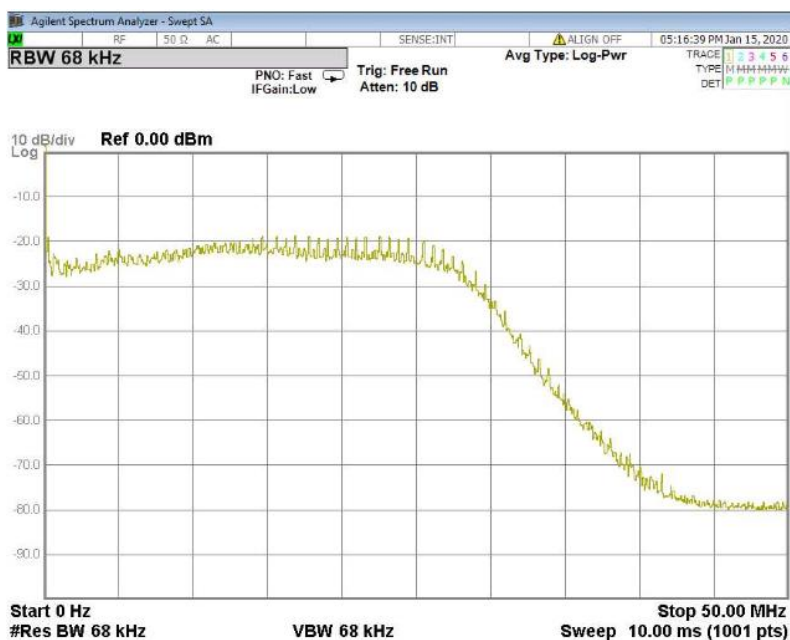
**Fig. 1 - Optical Output Spectrum**



**Fig. 2 - Typical Polar Radiation Pattern**

# Electrical Specifications

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**Fig. 3 – Frequency Response to Swept Signal  
(Measured with Hyperion Technologies LiFi Receiver)**

# Mechanical Specifications

