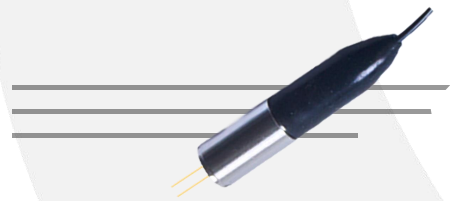


# LD-650-30-CX



## DEVICE

## 650 nm FP Laser Diode, Pigtailed Coaxial Package

## OVERVIEW

The Optilab LD-650-30-CX is a 650 nm laser diode. It utilizes multi quantum well Fabray Perrot semiconductor laser structure and packaged in TO56 coaxial housing with fiber pigtail. It features a built-in power monitor photo diode and offers excellent stability and reliability. This product can be used for optical sensing, test and measurement equipment, laser range, and medical treatment.

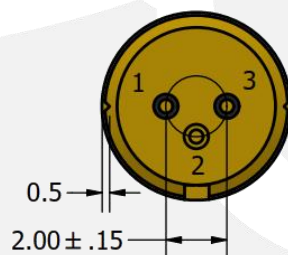
## FEATURES

- MQW Fabray Perrot
- 650 nm wavelength
- 30 mW output power
- Fiber pigtailed output
- Highly reliable
- Built-in monitor PD

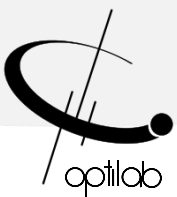
## USE IN

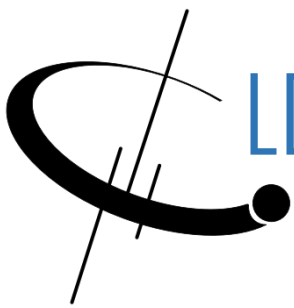
- Optical fault locator
- Laser positioning
- Biology and medical equipment
- Optical sensing
- Industrial automatic control
- Test and measurement equipment

## PIN OUT DIAGRAM



Pin 1	PD+
Pin 2	LD+ / PD-, case
Pin 3	LD-





# LD-650-30-CX

## SPECIFICATIONS ELECTRICAL & OPTICAL

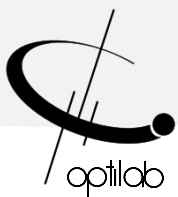
Center Wavelength	650±15 nm
Optical Output Power	30 mW typ.; 20 mW min.
Spectral Width	3 nm typ.
Threshold Current	30 mA typ.; 50 mA max.
Operating Current	90 mA typ.; 110 mA max.
Operating Voltage	2.6 V typ.; 3.3 V max.
Monitor PD Current	1 mA typ.; 0.02 mA min.; 3 mA max.

## ABSOLUTE MAXIMUM RATINGS

Laser Diode Drive Current	130 mA
Photo Diode Reverse Voltage	+5 V
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Soldering Temperature	260 °C for 10 sec

## MECHANICAL

TO Outer Diameter	6.2±0.2 mm
Fiber Pigtail Length	1.0±0.1 m
Fiber Type	G652D Compatible 9 μm Fiber 4 μm Fiber Option Available
Fiber Connector	FC/APC or SC/APC



# LD-650-30-CX

MECHANICAL  
DRAWING

Fiber Coupled Coaxial FP Laser Diode

Laser Diode w/ Heat Sink

