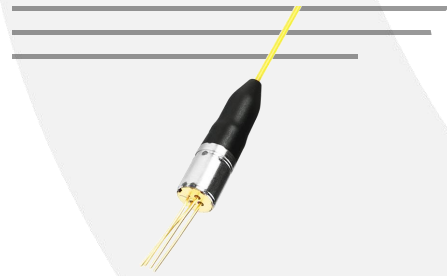




LD-650-5-CX



DEVICE

650 nm LD, 5 mW, Coaxial Package, SM Fiber

OVERVIEW

The Optilab LD-650-5-CX is a 650 nm laser diode, packaged in compact coaxial housing with single mode fiber pigtail. It features a 5 mW output power, $\Delta\lambda$ 3.0 nm spectral linewidth and offers excellent stability and reliability. This product can be used for indication, printers and light pen.

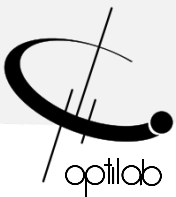
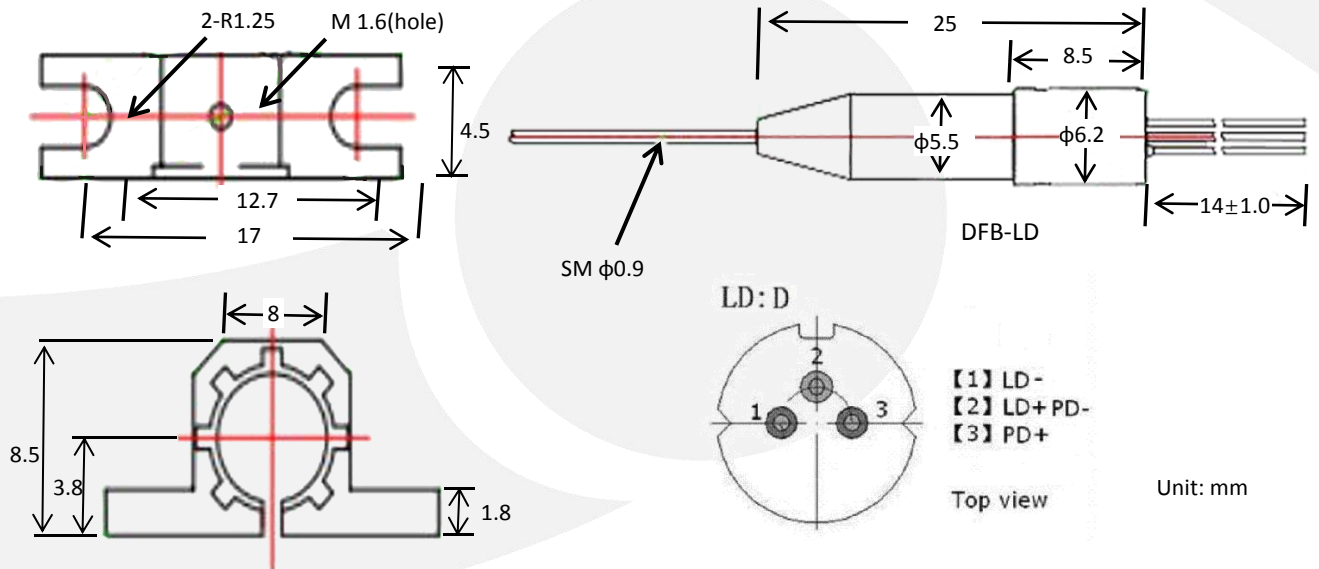
FEATURES

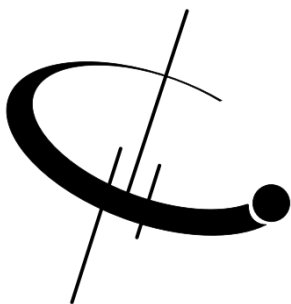
- 5 mW output power
- $\Delta\lambda$ 3.0 nm spectral linewidth
- 9.0 μm fiber core diameter
- Single mode MQW FP LD
- Monitor photodiode (Optional)
- High reliability, long life(>5000 H);
- Operating temperature range: -20 °C to 80 °C
- Telcordia GR-468 reliability test standard
- TO-18 package
- 0.12 NA
- Low threshold, low operate current

USE IN

- Indication
- Printers
- Optical sensing
- Test and measurement equipment
- Light pen
- Laser range finder
- Medical treatment

MECHANICAL DRAWING





LD-650-5-CX

SPECIFICATIONS

Optical Data

Laser Type	MQW Fabry-Perot LD
CW-Output Power	5 mW typ.
Center Wavelength	650±5 nm
Spectral Width	3.0 nm typ.
Wavelength Shift with Temperature	0.3 nm/°C typ.
Beam Divergence Angle	$\theta_{//} \leq 15^\circ$ or $\theta_{\perp} \leq 40^\circ$

Electrical Data

Operating Current	105 mA max.
Threshold Current	55 mA typ.
Operating Voltage	2.1 V typ.; 2.5 V max.
LD Reverse Voltage	2.0 V max.

Fiber Data

Core Diameter	9.0 μm
Numerical Aperture	0.12 nm
Total Fiber Length	1 m (Standard)
Fiber Type	Single Mode
Connector	FC/APC(Standard) or ST/SMA905

Others

Operating Case Temperature	-10 °C to +80 °C
Storage Temperature	-40 °C to +85 °C
Operating Humidity	15% to 75%
Package	Coaxial Housing
Material	GaAs

