

Compact Laser Diode Driver For Laser Diodes, SLED and SOA devices

Model no.: cLDD



Description

This compact Laser Diode Driver (cLDD) is a compact all-in-one unit designed for convenience of use, and combines a user interchangeable mount for a laser diode, SLED, SOA or similar device, a current driver and a TEC controller, all in a self-contained enclosure.

This product includes a USB port and a software control application with a graphical user interface (GUI) for real-time device monitoring, control and data logging.

The cLDD is used with either a 14-pin butterfly mount (provided with Type I, Type II and custom pin out routing boards) and/or a DIL mount. The mounts are user-interchangeable and are sold separately from the base unit.

Parameter	Specification			Unit
Control current range ^(1,2)	0.015 - 0.5	0.030 - 1.0	0.060 - 2.0	Α
Current limit ^(1,2)	0.2 - 0.5	0.2 – 1.0	0.2 - 2.0	Α
Current reading resolution	0.5	1.0	2.0	mA
Compliance voltage	> 4.8			VDC
Photodiode current range ⁽¹⁾	Five ranges from 5 to 5000 (selectable in the software control application)			μΑ
Maximum TEC current				
Constant regime	3.0			Α
Transient regime	4.0			Α
TEC current limit ⁽¹⁾	0.4 - 4.0			Α
Modes of operation ⁽¹⁾	(a) Constant average current			-
	(b) Constant average output power			-
	(c) External modulation (bandwidth 500kHz@3dB for sinusoidal modulation)			-
Temperature control loop parameters (Proportional - K _p , and Integral - T _i) (1)	Three ranges (selectable in the software control application)			-
External power supply	+5 VDC, 5A (included)			-
Power consumption	typ. <25			W
Dimensions (WxDxH)	135x200x54			mm
Computer controlled operation - via provid	led software contro	l application		
Stand alone operation – via built-in keypad and display				
Built-in USB port – required for initial configuration and computer controlled operation				

- (1) User configurable via Software Control Application (GUI)
- (2) DIL mount is rated 1A continuous current

Order Code: cLDD – con

cLDD – compact Laser Diode Driver (base unit only)
Includes power supply module and software control application.

BM – Butterfly Mount (mount only) **DM** – DIL Mount (mount only)

Note: The compact Laser Diode Driver base unit (Model cLDD) requires one of the above mounts (Model BM or DM) to be operational.

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