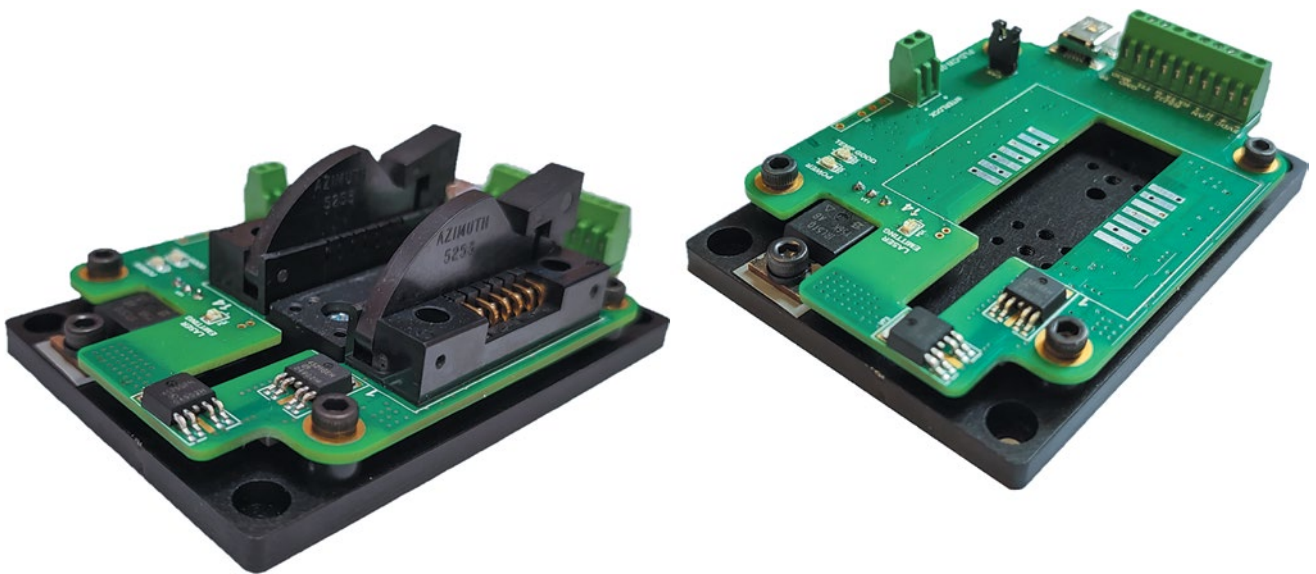


PLD-CW-2000 PLD-CW-2000-ZIF

CONSTANT CURRENT LASER DIODE DRIVER



Key Features

- Unified design for 10/14 pin Butterfly Type I Laser Diode
- Constant Current Mode
- Output Current up to 2000 mA
- Compliance voltage up to 3 V
- Low current ripple
- High current stability
- Computer Interface USB, RS-232, CAN
- On-Board TEC Controller
- 5VDC Input Power
- Completed by Heatsink
- Compact Size 85 mm × 60 mm × 21 mm

Description

The PLD-CW-2000/PLD-CW-2000-ZIF is a constant current laser diode driver for powering 10/14-pin butterfly laser diode modules for applications, which require precision low ripple constant current regulation.

The driver circuitry operates from a single 5VDC power source. The driver supplies a bidirectional proportional-integral-derivative (PID) thermoelectric cooler controller (TEC) with current capability of 4 A and voltage capability of 4 V.

The main parameters of PLD-CW-2000/PLD-CW-2000-ZIF (output current, temperature set, monitor photodiode signal) are controlled by computer interface.

The GUI can control multiple drivers connected by CAN/USB hub.

The driver supports full amplitude modulation of drive current by an external analog 0...5V and TTL signals.

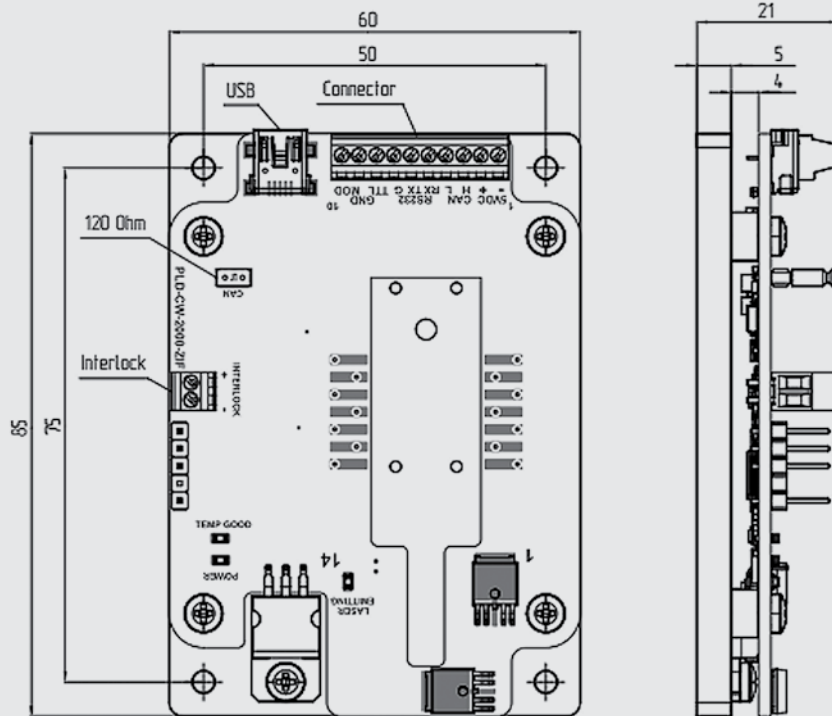
Driver has landing pads for soldering a butterfly laser diode directly into driver board and large heat sink for stable heat dissipation.

Specifications

Parameter	Min.	Typ.	Max.	Units
INPUT				
Voltage	4.8	5.0	5.2	VDC
Current	-	-	3	A
OUTPUT				
Current	-	-	2000	mA
Current Regulation Step	-	0.1	-	mA
Current Ripple	-	-	0.1	%
Current Stability	-	-	0.2	%
Current Set Accuracy	-	-	1	%
Compliance Voltage	1	-	3	V
TEC current setting range	-4	-	+4	A
TEC Voltage	1	-	4	V
TEC Temperature Set	5	25	50	°C
TEC Temperature Step	-	0.1	-	°C
TEC Temperature Accuracy	-	-	0.1	%
TEMPERATURE				
Operating	+10	-	+50	°C
Storage	-20	-	+70	°C
Humidity, Non-Condensing	-	-	95	%
CONNECTIONS				
Power and interface connector	Terminal block (1-282834-0 TE connectivity)			
USB	Mini-USB, Type B (1734035-1 TE connectivity)			
Interlock	Terminal block (282834-2 TE connectivity)			
MECHANICAL				
Size	85 × 60 × 21 mm			
Weight, not more	160g			

Dimensions and Connections

PLD-CW-2000



PLD-CW-2000-ZIF

