BLD-CW-2000-STD
LASER DRIVER

APPLICATIONS

PUMP LASER

KEY FEATURES

- Special design for 10/14 pin butterfly laser diode
- Constant current mode
- Output current up to 2 A
- Compliance voltage up to 3 V
- Low current ripple
- High current stability
- Computer interface CAN, USB, RS-232
- LabVIEW compatible
- Programmable
- Single GUI control for multiple drivers
- On-board TEC controller
- 5 VDC input power
- Integrated heatsink
- Compact size 85 mm x 80 mm x 20 mm

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SPECIFICATIONS

PARAMETER	MIN	TYP.	MAX	UNITS
INPUT				
Voltage	4.8	5	5.2	VDC
Current	-	-	5	A
OUTPUT				
Current	-	-	2000	mA
Current regulation step	-	1	-	mA
Current ripple	-	-	0.1	%
Current stability	-	-	0.2	%
Current set accuracy	-	-	1	%
Compliance voltage	1	-	3	V
TEC current	-4	-	4	A
TEC voltage	1		4	V
TEC temperature set	15	25	45	°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	2-pin terminal block (1734035-1 TE connectivity) CAN: 2-pin terminal block			
Interface connectors	USB: Mini-USB, Type B (1734035-1 TE connectivity) CAN: 2-pin terminal block			
MECHANICAL				
Size	85 mm x 80 mm x 20 mm			
Weight	< 160 g			

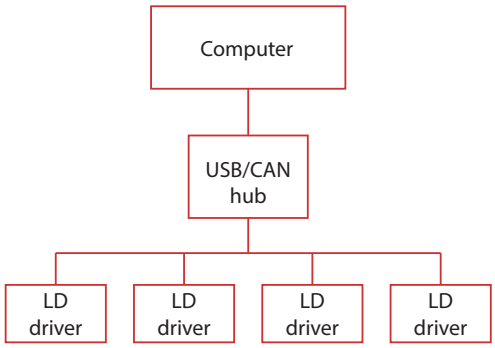
DESCRIPTION

The BLD-CW-2000-STD 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 5 VDC 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 BLD-CW-2000-STD (output current, temperature set, monitor photodiode signal) are controlled by computer interface. The GUI can control multiple drivers connected by CAN/USB hub.

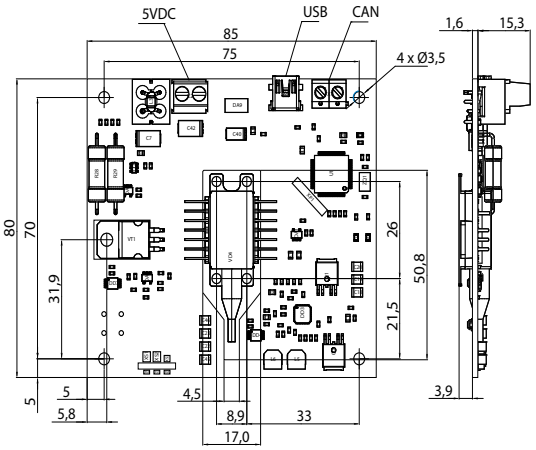
Driver has landing pads for soldering a butterfly laser diode directly into driver board and large heat sink for stable heat dissipation.



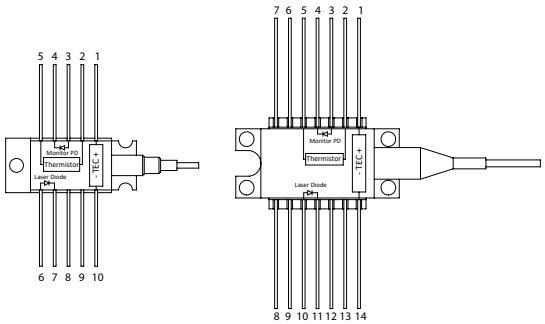
Due to continuous product development the specifications in this document are subject to change without notice.

PERFORMANCE, DIMENSIONS

DIMENSIONS AND CONNECTORS



PIN	Function
1	TEC (+)
2	Thermistor
3	Monitor anode (-)
4	Monitor cathode (+)
5	Thermistor
6	LD (+)
7	LD (-)
8	N/C
9	Case ground
10	TEC (-)



COMPATIBLE LASER PINOUTS

PIN	Function
1	TEC (+)
2	Thermistor
3	N/C
4	N/C
5	Thermistor
6	N/C
7	N/C
8	N/C
9	N/C
10	LD anode (+)
11	LD catchode (-)
12	N/C
13	Case ground
14	TEC (-)

ORDERING INFORMATION

BLD - CW - 2000 - STD - □

Interface:
RS: RS 232 interface
USB: Mini USB Type B interface
CAN: CAN interface

Example: BLD - CW - 2000 - STD - USB

Get in touch with us!

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