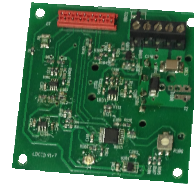


## Laser diode constant current driver Pulse Pump Driver

Model no.: LDCCD



### Description

The Laser Diode Constant Current Driver (LDCCD) is a board level constant current laser diode driver with fast settling, overshoot free analog PID control, ideal for driving high power multimode pump diode modules in pulse pumping applications. A 4 x 1 multiplexer selects the current setpoint from one of 4 inputs: onboard trimmer set, coaxial connectors (50ohm), connector input (high Z) and one factory set level (defaulter is 0A). This gives maximum flexibility in control of desired pump power waveforms from digital and analog outputs.

The driver is offered in two power ranges: one up to 2.5A and one up to 12A (max. 60V).

### Specifications, 2.5A model

Parameter	Specification	Unit
Current output	2.5	A
Risetime	10	us
Overshoot	<5	%
Supply voltage	5	V

### Specifications, 12A model

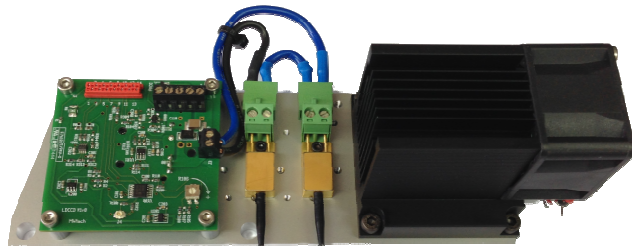
Parameter	Specification	Unit
Current output	12	A
Risetime	10	us
Overshoot	<5	%
Supply voltage	<60	V

### Key features

- Fast settling
- No overshoot
- Analog and digital controls
- High current

### Applications

- Driver for pulse pumping of fiber lasers
- Fast ON – OFF control of power laser diodes
- CW laser diode driver
- Available as a kit with mounting plate and fan cooling for multiple pumps driving



## Connectors

### J1 Screw terminal

Pin	Description
1	LD supply
2	LD supply
3	Common GND
4	Common GND
5	12V control supply, required on 12A model only

### J2 AMP 8-215079-4 SOCKET, mates with AMP 8-215083-4

Pin	Description	Pin	Description
1	5V output	8	A1 digital mux select, 5V TTL
2	GND	9	A0 digital mux select ,5V TTL
3	Vref output	10	Enable
4	GND	11	Over temperature warning
5	NC	12	Supply over voltage warning
6	LevelA high Z analog current setpoint	13	Supply under voltage warning
7	GND	14	GND

### J3 Screw terminal (if fitted)

Pin	Description
1	Laser anode connection
2	Laser cathode connection

### J4 Hirose Electric Co Ltd U.FL-R-SMT(10), Mates with HIROSE U.FL TO SMA(F) 200MM, Taoglas Limited CAB.718; 50ohm input

Pin	Description
1	50ohm input. 0 to 2V for 0A to max current
2	GND