

[OEMOD-LDC-500BF(DIP), 800BF(DIP),1000BF(DIP)]

Laser Diode Controller (OEM version)

OEMOD-LDC Laser Diode Controller combines ultra-stable temperature controller and accurate constant current driver. It is ideal to drive laser diode module (transmission laser diode, pump laser diode, etc.), semiconductor optical amplifier (SOA), super luminescent diode (SLD) and light emitting diode (LED). Two PI loops monitor and control both laser diode current and temperature. The controlled laser diode current range is 20mA~500mA (OEMOD-LDC-500, OEBSL-300), 50mA~800mA (OEMOD-LDC-800, OEBSL-300) with option to 1.0A driving current, or 80mA~3000mA (OEMOD-LDC-3000). The thermoelectric cooler (TEC) control current is from 1.2A, 2.0A up to 2.2A. With on-board Butterfly solder pads or DIP-14 connector, mounting Butterfly packaged module or DIL-14 packaged module is easy and reliable. Adjustable current limitation and slow-start can protect the laser diode modules.

OEMOD-LDC-500DIP

DIP-14 connector, 500mA Laser diode driving current, 1.2A temperature control current for pump laser, SLD, DFB.

OEMOD-LDC-800DIP

DIP-14 connector, 800mA Laser diode driving current (with option to 1.0A current), 2.0A temperature control current for pump laser, SLD, DFB et al.

OEMOD-LDC-500BF

Butterfly solder pads, 500mA Laser diode driving current, 1.2A temperature control current for pump laser, SLD, DFB.

OEMOD-LDC-800BF

Butterfly solder pads, 800mA Laser diode driving current (with option to 1.0A current), 2.0A temperature control current for pump laser, SLD, DFB et al.

OEMOD-LDC-1000BF

Butterfly solder pads, 1000mA Laser diode driving current, 2.0A temperature control current for pump laser, SLD, DFB.

OEMOD-LDC-3000BF

Ideal for any type of laser diode package, TO-56, TO-9, DIP, Butterfly up to 3000mA Laser diode driving current, 2.2A temperature control current for all types of laser diode like DFB, PUMP, SLD, SOA, ToCan laser diodes and LEDs.

OEMOD-LDC-BLS300

Ideal for any type of laser diode package, TO-56, TO-9, DIP, Butterfly up to 800mA (with option to 1.0A) Laser diode driving current, 1.2A temperature control current for all types of laser diode like DFB, PUMP, SLD, SOA, ToCan laser diodes and LEDs.

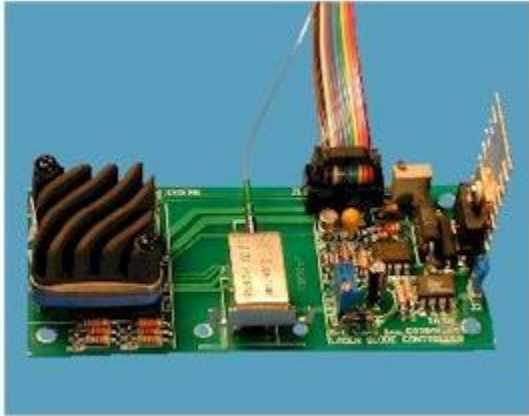


Figure 1. OEMOD-LDC-500DIP

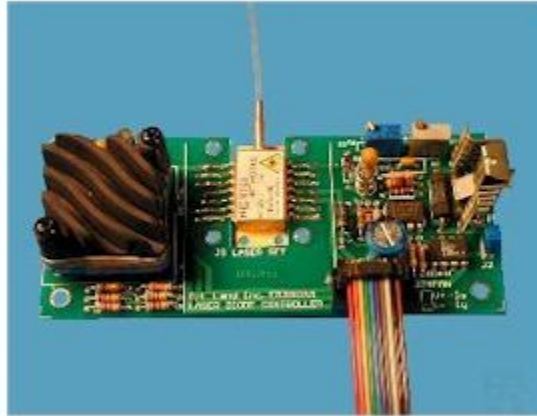


Figure 2. OEMOD-LDC -500B



Figure 3. OEMOD-LDC-1000BF



Figure 4. OEMOD-LDC-BLS300



Figure 5. OEMOD-LDC -3000BF

Features:

- Operates in constant current mode
- 0.03% driving current accuracy
- Temperature Stabilization Point: +25°C/10Kohms thermistor, or on request
- 0.005°C temperature stability
- Slow start circuitry
- Adjustable driving current limitation
- External laser diode enable switch and working-indicator LED

OEMOD-LDC-500DIP and OELDC-800DIP

- On-board DIP-14 connector, for DIL-14 packaged module.
- Single +5V power supply
- Pump laser, SLD, DFB

OEMOD-LDC-500BF and OELDC-800BF

- On-board Butterfly solder-pads, for Butterfly packaged module.
- Double +/-5V power supply
- Pump laser, SLD, DFB

OEMOD-LDC-1000BF

- On-board Butterfly solder-pads, for Butterfly packaged module.
- Double +5V power supply
- Pump laser, SLD, DFB

OEMOD-LDC-BLS300

- Suitable for any types of laser diode packages like ToCan, Butterfly, DIP
- On-board Butterfly solder-pads, for Butterfly packaged module for flexible mount locations
- On-board DIP solder-pads, for DIP packaged module for flexible mount locations.
- With flat flexible cable for flexible mount location.
- With adjustable working temperature set point
- Double +/-5V power supply
- DFB, Pump, SLD, SOA, LED and any laser diode types
- Other specs as same as OELDC-500BF or OELDC-800BF

OEMOD-LDC-3000BF

- Suitable for any types of laser diode packages like ToCan, Butterfly, DIP...
- On-board Butterfly solder-pads, for Butterfly packaged module for flexible mount locations.
- On-board DIP solder-pads, for DIP packaged module for flexible mount locations.
- With flat flexible cable for flexible mount locations.
- Single 5V power supply.
- DFB, Pump, SLD, SOA, LED and other laser diode types.

Specifications:

Model number	OELDC-500DIP	OELDC-500BF	OELDC-800DIP	OELDC-800BF	OELDC-1000BF	OELDC-3000BF
Laser diode package type	DIL-14	Butterfly	DIL-14	Any	Butterfly	Any
Maximum driving current	500mA	500mA	800mA(1A)	800mA(1A)	1000mA	3000mA
Driving current accuracy	0.03%					0.10%
Driving current stability	0.1% or 0.3mA		0.12% or 0.5mA			0.1% or 3mA
Maximum TEC current	1.2A		2.0A			2.2A
External temperature sensor	10k□@ 25 °C					
Temperature stability	0.005 °C					0.01 °C
Slow start delay time	2 seconds					
Power supply current	5V	+5V/-5V	5V	+5V/-5V	5V	5V
Power supply current	2.5A	2A/1A	3.5A	3A/1A	3.5A	6A
Operation Temperature	0 ~ 35 °C					
External modulation(optional)	up to 1 MHz					
Constant output power control	optional					
Size	115mm x 50mm					75mm x 50mm

Note: All specifications are subject to change without notice.

We have unbeatable low price for this product.

- price is updating, please make a request for our most recent price by calling (514)334-4588 or by emailing sales@o-eland.com