

## 15V Laser Diode Driver Board OELDD-400

OELDD-400 Laser Diode Driver provides precise constant laser current. It is ideal to drive light emitting diode (LED) and laser diode (LD) with 15V driving voltage. Current feedback PI loop monitors and controls laser current accurately.

### Features:

- Operates in constant current mode
- Adjustable up to 1200mA laser current
- Output voltage up to 20V
- Slow start circuitry
- On-board 2-pin connector for LED and LD
- Single 24V power supply
- Wide operation temperature range

### Specifications:

Specifications	Value	Conditions
Input Voltage Range	6-36V	40V absolute maximum
Recommended Input Voltage	Typical 24V	
Output Voltage Range	3-20V	V <sub>in</sub> = 24VDC
Output Current Range	0-1200mA	
Output Current Accuracy	±2% typ, ±5% max.	V <sub>in</sub> = 24VDC
Output Current Stability	±1% max.	V <sub>in</sub> = 24VDC
Output Ripple and Noise	300mVp-p max.	20MHz bandwidth
Temperature Coefficient	±0.015%/°C max.	-40°C ~ +85°C ambient
Maximum Capacitive Load	100uF	
Operating Mode	PWM, 450KHz	
Output Current Adjustment	Potentiometer	
Efficiency at Full Load	96% max.	
Operating Temperature Range	-40°C ~ +65°C	
Relative Humidity	5% to 85% RH	
MTBF	605 x 10 <sup>3</sup> hours	Full load, 25°C
Circuit Protection	Short circuit protection, Over temperature shutdown	



Figure 1. OELDD-400, 15V laser diode driver

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