

NORTH PHOTONICS

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 _{in} = 24VDC |
| Output Current Range | 0-1200mA | |
| Output Current Accuracy | ±2% typ, ±5% max. | V _{in} = 24VDC |
| Output Current Stability | ±1% max. | V _{in} = 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 ³ hours | Full load, 25°C |
| Circuit Protection | Short circuit protection, Over temperature shutdown | |

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

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