

PRELIMINARY DATA SHEET

PHOTO COMING SOON

- **0.2 to 2.0 Amps or 1.0 to 10 Amps**
- **Variable pulsewidth (5 ns – 1000 ns)**
- **Rise-time of <2 ns**
- **Single-shot to 5 MHz***
- **Current monitor output**
- **Lightweight**

The PLDD-2-SP is a flexible, compact, all solid-state, pulsed current source designed to drive single or multichip laser diodes. Two models are available. One with a current range of 0.2-2.0 Amps and the other 1.0-10 Amps. The peak current is adjusted by either an on-board potentiometer or an external DC voltage. The current pulsewidth can be controlled by triggering an on-board pulse generator or by an externally supplied pulse. The pulse repetition rate is controlled by the external trigger.

Mounting holes that accept the most common laser diode packages (5.6 mm, 9 mm, TO-18, TO-5, and TO-52) are supplied. This allows the light to exit normal to the driver; however, edge mounting of these laser diodes can also be accommodated. In addition the driver can be configured to interface with the standard 14-pin butterfly package.

The laser diode current can be observed with the current monitor output. This high fidelity output ensures accurate determination of the laser diode current.**

**Maximum replate is pulsewidth and current dependent see chart on pg 3*

***Oscilloscope bandwidth should be >200 MHz with a 50 Ohm input*

OMNIPULSE TECHNOLOGY

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PRELIMINARY SPECIFICATIONS*	
PARAMETER	VALUE
Pulse Output Current	
Amplitude Range	0.2-2.0 Amps or 1.0-10 Amps
Amplitude Adjustment	On board trimpot or external voltage control
Pulse Rise/Fall Time	<2 ns (Load Dependent)
Pulse Width	Variable from 5 ns to 1000 ns (Load Dependent)
Pulse Recurrence Frequency Range	Single Shot to 5 MHz*
Compliance Voltage	Consult factory with your specific load for compliance specification
Output Connector	Diode soldered directly to PCB pads or stripline connection to standard 14-pin butterfly package
Trigger Requirements	
Type	Active high CMOS/ TTL
Outputs	
Current Monitor	1.00 V/A into 50 Ω
General	
Input Power	24 V-28 VDC
Approximate Dimensions (H X W X D) inches	1.25" X 4.0" X 2.70"

**Specifications are subject to change without notice.*

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