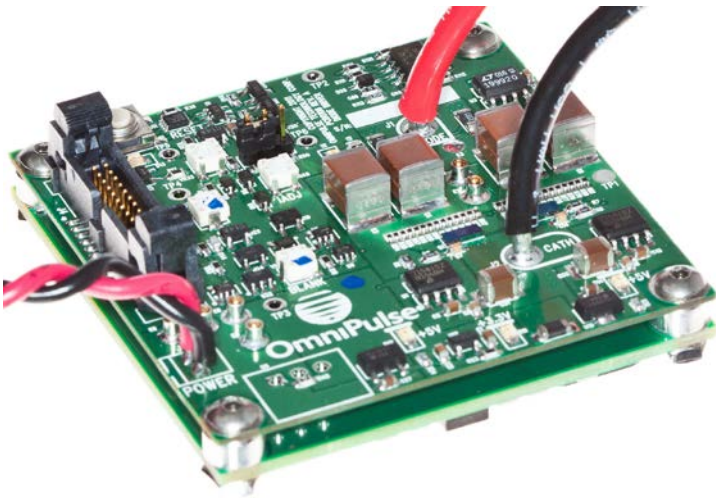


DATA SHEET



- **Output Current up to 250 A**
- **Up to 300 μ s pulse width**
- **Rise-time of <10 μ s (5 μ s typ.)**
- **Single-shot to 8 PPS**
- **Current monitor output 1 volt/100 amps**
- **Drives a single diode to 7 bars stacked**
- **Only 2.75 oz***
- **Actual dimensions: 1.24" x 2.20" x 2.20"**

The SMDD-250-7-8 is the first in a series of ultra-compact, high current laser diode drivers that have improved efficiency per unit weight compared to other drivers. The unit is designed to drive laser diode bars, arrays of laser diode bars, or any low impedance load. The unit features a high peak current of 250 amps with a rise-time of < 10 μ s and a maximum pulse width of 300 μ s. The pulse repetition frequency can be varied from single shot to 8 PPS.

This output current amplitude can be controlled by either an analog voltage or an on-board potentiometer (jumper selectable). The pulse width is determined by the duration of the input trigger.

The SMDD-250-7-8 requires a user supplied +6 to +13.5 volt input supply.

**without input/output wires*

OMNIPULSE TECHNOLOGY

6355 Nancy Ridge Drive, San Diego, CA 92121

Tel: (858) 452-7700 • Fax: (858) 452-8788

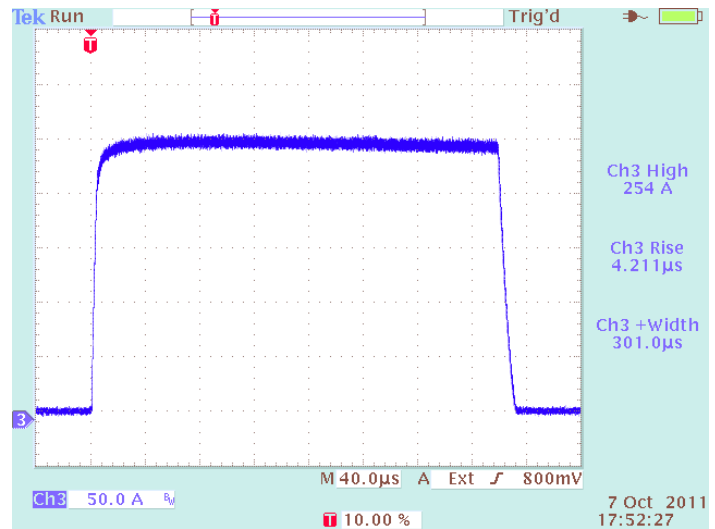
Email: sales@omnipulsetechnology.com • <http://www.omnipulsetechnology.com>

Updated: 1/10/2012
RMS



SPECIFICATIONS++	
Parameter	Value
Pulse Output Current	
Amplitude Range	50-275 A† (RECOMMENDED)
Means of Adjustment	Analog input/internal adjustment with potentiometer
Pulse Rise Time	<10 μs, 5 μs typ.
Pulse Width	0-300 μs (analog or digital input)
Pulse Recurrence Frequency Range	Up to 8 PPS at max current (300 μs pulse)
Output Voltage	13 V max**
Output Connection	Twisted pair AWG 14
Trigger Requirements	
Type	TTL / 3.3 / 5 volt CMOS Input
Outputs	
Current Monitor	1.00 volt / 100 amps into >10 kOhm
General	
Input Power	6-13.5 volts 2.5 amps (peak)
Dimensions (H X W X D) inches	1.24" X 2.20" X 2.20"

Current Monitor Output
250 A / 300 μs pulse



**At 250 amps and 300 μs. Consult factory for other load requirements

† <5% droop @ max current

++Specifications are subject to change without notice.

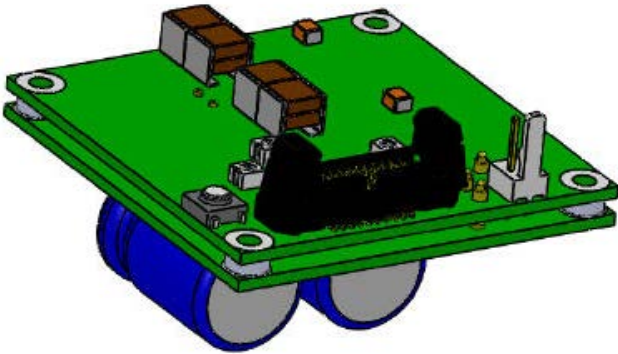
OMNIPULSE TECHNOLOGY

6355 Nancy Ridge Drive, San Diego, CA 92121

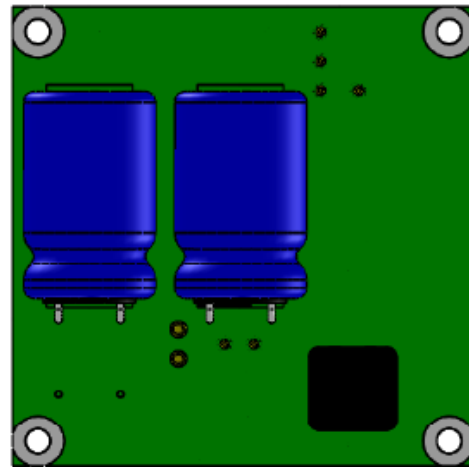
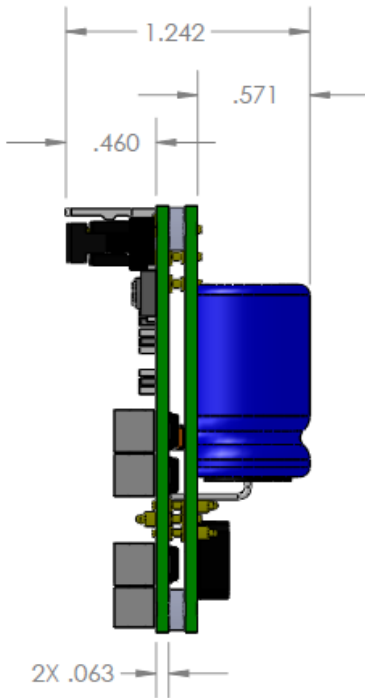
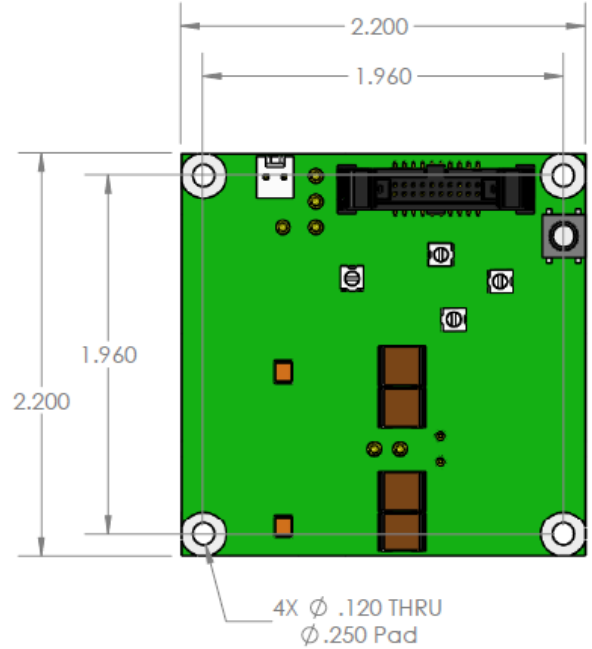
Tel: (858) 452-7700 • Fax: (858) 452-8788

Email: sales@omnipulsetechnology.com • <http://www.omnipulsetechnology.com>

PHYSICAL DIMENSIONS*



Top View



Bottom View

**Dimensions subject to change without notice.*

OMNIPULSE TECHNOLOGY

6355 Nancy Ridge Drive, San Diego, CA 92121

Tel: (858) 452-7700 • Fax: (858) 452-8788

Email: sales@omnipulsetechnology.com • <http://www.omnipulsetechnology.com>