

DATA SHEET



- **Output Current up to 120 amps**
- **Up to 300 μ s pulse width**
- **Rise-time of <10 μ s**
- **1 PPS**
- **Current monitor output 1 volt/100 amps**
- **Optimized for driving a single laser diode bar**
- **Only 17 grams**

The PLDD-120-1-1 is an ultra-miniature, battery operated, laser diode driver for driving a single laser diode bar to 120 amps of peak current. Due to the compact size and weight (only 17 grams), this unit is well suited for man-portable and airborne applications.

The magnitude of the output current is controlled by a user supplied DC voltage (1 V/100 A). The input trigger signal controls the pulsewidth. The user needs to supply a +3.3 to +5 V signal to enable the capacitor charger.

The optional Universal Interface Board (UIB-01) allows the user easy access to all control pins. Commonly used signals on the UIB-01 are available through BNC connections such as the input trigger and the current monitor which allows the user a real time view of the current.

The PLDD-120-1-1 can be powered by a +5 volt supply. Contact factory for battery operation.

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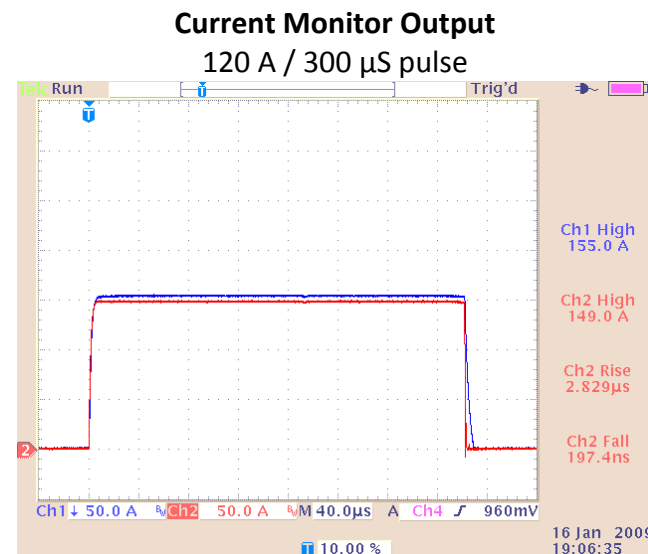
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SPECIFICATIONS*	
Parameter	Value
Pulse Output Current (Load = Single Laser Diode Bar)	
Amplitude Range	0-120 amps
Means of Adjustment	user supplied DC voltage (1.2 volts=120 amps)
Pulse Rise Time	<10 μ s
Pulse Width	0-300 μ s (set by user supplied input trigger)
Pulse Recurrence Frequency Range	1 PPS
Compliance Voltage	3 volts (single bar)
Output Connection	Twister pair AWG 16, 6" length
Trigger Requirements	
Type	3.3/5 volt CMOS
Outputs	
Current Monitor	1.0 volt/ 100 amps into >10 kOhm 0.50 volt/100 amps into 50 Ohm
General	
Input Power	+5 volt 700 mA Consult factory for battery operation
Operating Temperature Range	For mil-spec temperature operation, please contact factory
Dimensions (H X W X D) inches	0.93" X 0.75" X 2.1" (Approximate)



Comparison of the I-mon output (lower trace) and a Pearson current monitor (upper trace).

Warning: Please discharge capacitor before connecting or removing any load

*Specifications are subject to change without notice.

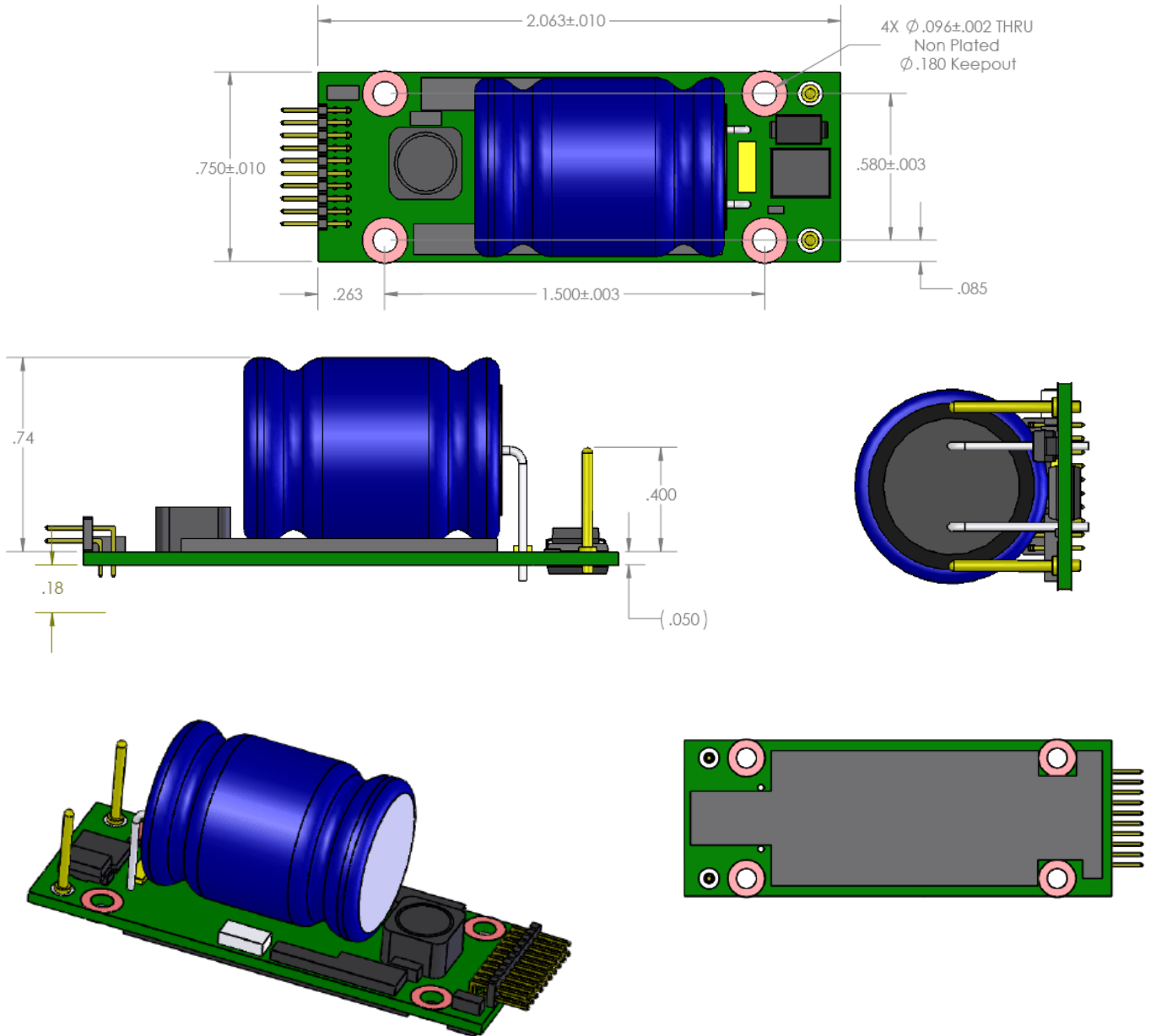
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PHYSICAL DIMENSIONS*



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