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**LASER LAB SOURCE**

manufactured by  **triMATiZ**

## MODEL LDD-PU-300-04 OEM PULSED LASER DIODE DRIVER



### **30 AMP, 5 NANOSECOND PULSED LASER DIODE DRIVER**

- **Output Current: 30 Amp**
- **Pulse Width: 5 ns**
- **Super-Compact Form Factor**
- **Ideal for LIDAR Applications**

## HIGH CURRENT OEM PULSED LASER DRIVER

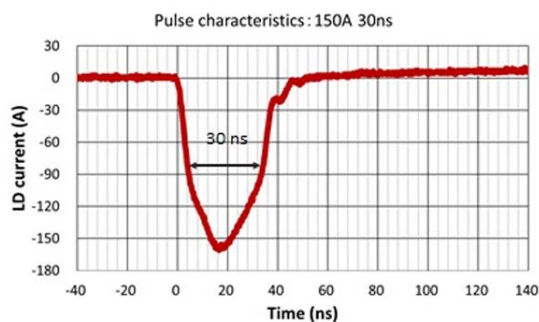
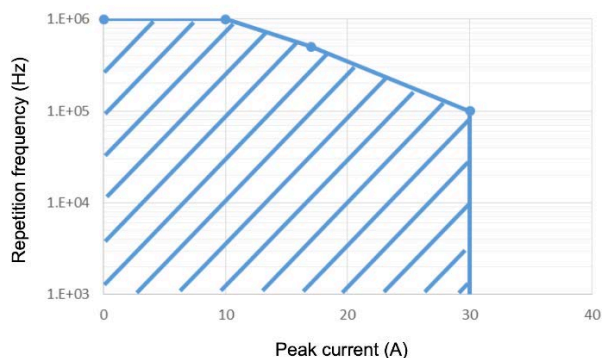
This high current, short pulse laser diode driver was developed for emerging applications such as LiDAR, to deliver clean and ultra-short current pulses.

## COMPACT FORM SIMPLIFIES APPLICATION

Laser diode package mounting pads for 5.6mm and 9mm TO-can package styles are available on-board. Direct mounting the laser diode on the circuit board eliminates the need for impedance matching cables and resistive elements, and speeds development and deployment of the driver.

## FACTORY ASSURED ACCURACY AND FUNCTIONALITY

Factory pre-sets for your application are offered at not additional charge and options for testing with your laser diode prior to shipment are available.





## OUTPUT SPECIFICATIONS

- Output Peak Current: up to 30 amps
- Output Current Set by Laser Driver Voltage
- Compliance Voltage: 5 V (max)
- Laser Package: 5.6 mm, 9 mm TO-Can

## PULSE SPECIFICATIONS

- Pulse Width: Factory-Set, 5 nanosecond (min)
- Repetition Rate: 1 kHz to 1 MHz
- Duty Cycle Max: 1%
- Trigger Input Connector: MMCX Receptacle, 50  $\Omega$
- Pulse Trigger Voltage: 3.3 V CMOS
- Pulse Trigger Width: 100 ns (min)
- Trigger Point: Rising-Edge

## OUTPUT CURRENT MONITOR

- Connector: MMCX Receptacle, 50  $\Omega$
- Conversion Constant: 44.4 A / V
- FWHM Pulse Width: 5 ns  $\pm$ 10% (dummy load)

## ELECTRICAL SPECIFICATIONS

- Controller Input Voltage: 12 V ( $\pm$ 5%)
- Controller Input Current: 40 mA (min)
- Laser Driver Voltage: 3 V - 40 V
- Laser Driver Current: 80 mA (min)

## BOARD DIMENSIONS

- 60 mm x 60 mm

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## PRODUCT SALES AND SERVICE:

Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Aerodiode, Talence, France.

## PRODUCT WARRANTY:

This product is sold with a full one year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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