



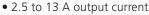


Rev. 1905

LDP-V 10-70

Mini Driver for Short Pulse Laser Diodes

• Ultra compact OEM module: 32 x 15 mm



- < 4 ns rise time
- Pulse width control via trigger input (10 ns to 1 µs)
- Rep. rates from single shot to 100 kHz
- Single +15 V supply
- Current monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...



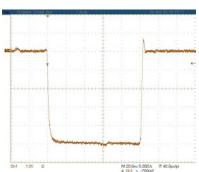


Figure: Current monitor output, scale: -2 A/Div

Technical Data*

Output current 2.5 .. 13 A 70 V Max. output voltage 15 .. 70 V, 0.1 A, 3 W - int. high voltage Rise time Typ. 3 ns, max. 4 ns Trigger delay Typ. 36 ns, max. 40 ns Min. pulse width 10 ns Max. pulse width Trigger range Single shot to 100 khz** (refer to diagram with operating limits) Max. duty factor 0.1 % 5 V into 50 Ω Trigger input Current monitor 2 A / V into 50 Ω Supply voltage +15 V 0.2 A

Max. power dissipation Dimensions in mm Weight Operating temperature

4 g -20 to +55 °C

2 W

32 x 15 x 8

* Measured into a short instead of laser diode. Technical data is subject to change without further notice.
** See manual for detailed information.

Product Description

The LDP-V 10-70 is the smallest available driver for nanosecond pulses. The device is optimized for size and functionality, integrating a HV-DC source and the pulsing stage into only 4.8 cm². Its typical application is driving pulsed laser diodes. Those can be mounted directly onto the LDP-V, eliminating the need for strip lines. The diode must be electrically isolated from earth (chassis) ground.

Despite its small size, the LDP-V is designed for ease of use. It eliminates the need for multiple peripheral supply units. A single 15 V DC supply and a trigger signal are all that is required for operation.

Germany and Other Countries Laser Components Germany GmbH

Tel: +49 8142 2864-0 Fax: +49 8142 2864-11 info@lasercomponents.com www.lasercomponents.com

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se