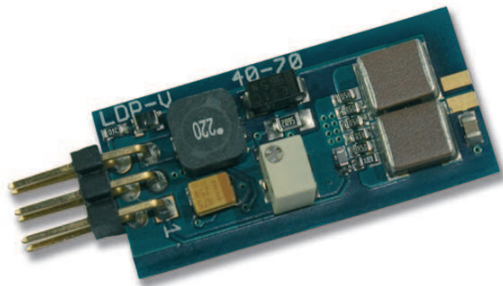


## LDP-V 10-70

### Mini-Driver for Laser Diodes Shortpulse



- Ultra-compact OEM-module: 32x15mm
- 2.5 to 13 A output current
- < 4 ns rise time
- Pulse width control via trigger input (10 ns to 1  $\mu$ s)
- Rep. rates from single shot to 100 kHz
- Single +15 V supply
- Current monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

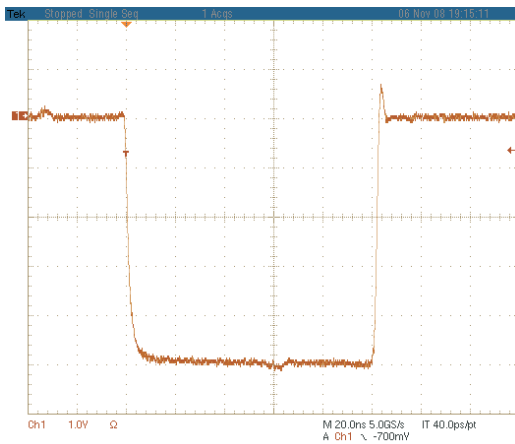


Figure: Current monitor output, scale: -2 A/Div

### Technical Data:\*

Output current	2.5 .. 13 A
Max. output voltage	70 V
- int. High voltage:	15 .. 70 V, 0.1 A, 3 W
Rise time	typ. 3 ns, max. 4 ns
Trigger delay	typ. 36 ns, max. 40 ns
Min. pulse width	10 ns
Max. pulse width	1 $\mu$ s
Trigger range	single-shot to 100 kHz** (refer to diagram with operating limits)
Max. Duty factor	0.1 %
Trigger input	5 V into 50 $\Omega$
Current monitor	2 A / V into 50 $\Omega$
Supply voltage	+ 15 V 0.2 A
Max. Power Dissipation	2 W
Dimensions	32 x 15 x 8 mm
Weight	4 g
Operating temperature	-20 to + 55 $^{\circ}$ C

\* 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 cm<sup>2</sup>. 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 which is required for operation.

