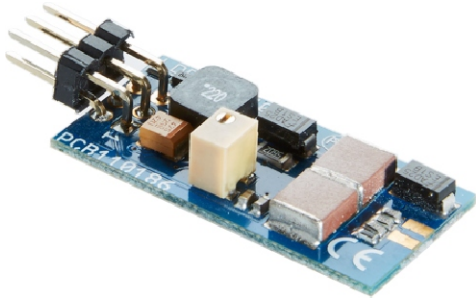




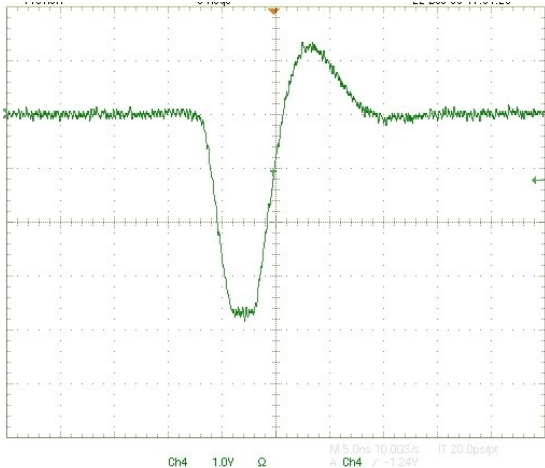
LDP-AV 40-70

Rev. 1905

Ultra compact Driver Module for pulsed Lasers



- Ultra compact OEM module: 32 x 15 mm
- 8 to 40 A output current
- Fixed pulse duration
- Rep. rates from single shot to 100 kHz
- Single +15 V supply
- Current monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...



Product Description

The LDP-AV 40-70 is the smallest available source 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-AV, eliminating the need for strip lines. The diode must be electrically isolated from earth (chassis) ground.

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

Technical Data*

Output current	8 .. 40 A Single LD
Max. output voltage	15 .. 70 V, 0.1 A, 3 W
Int. high voltage	
Trigger delay	Typ. 36 ns, max. 40 ns
Pulse duration	Fixed (standard is N50 = 5 ns)
Trigger range	Single shot to 100 kHz** (refer to diagram with operating limits)
Max. duty factor	0.1 %
Trigger input	5 V into 50 Ω
Current monitor	20 A / V into 50 Ω
Supply voltage	+15 V 0.2 A
Max. power dissipation	2 W
Dimensions in mm	32 x 15 x 8
Weight	4 g
Operating temperature	-20 to +55 °C

* Measured into a short instead of laser diode. Technical data is subject to change without further notice.

** See manual for detailed information.