



GEM-DLS50

PULSED LASER DRIVER

The GEM-DLS50 has optimized the HV-DC source and trigger circuitry in size and functionality to fit in just 37 cm². Its typical application is driving pulsed laser diodes.



ELECTRICAL SPECIFICATIONS

- Output current: 8-50 A (switchable with adjustable resistor)
- Maximum output voltage: 100V
- Rise time: ~ 5ns
- Trigger delay ~ 30ns
- Minimum pulse length: 15 ns
- Maximum shot length: 1us
- Pulse repetition frequency: 1 pulse - 100kHz (maximum pulse length decreases as frequency increases)
- Trigger signal: 3,3-5V (50 ohm connection)
- Current reading: 20A/V (50 ohm connection)
- Supply voltage: 12V - 0,25 A / 24V - 0,125A

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature: -35° C / +50° C
- Storage temperature: -40° C / +70° C

GENERAL SPECIFICATIONS

- Pulse length control with trigger signal (15ns-1us)
- Up to 100kHz pulse repetition frequency
- Different input voltage options (12-24V)
- Current reading pin
- The laser diode can be soldered directly to the pads on the GEM-DLS50.
- Along with its small size, the GEM-DLS50 is designed for ease of use.
- It eliminates the need for multiple peripheral supply units.
- A single dc supply (12-24V) and trigger signal are sufficient for operation.

PHYSICAL SPECIFICATIONS

- Weight 18g
- Size: 44mm x 83mm



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