

LDP-VRM 045-12 CA

Laser Diode Driver



Product Description

The LDP-VRM 045-12 CA is a fast driver for typical single laser diodes. With its high output voltage it is suitable for IR, blue LD's and all kinds of LEDs (no pure resistive load).

Depending on the supply voltages output

currents of up to 5.0 A can be achieved. The internal DC/DC converter stabilizes the voltage drop across the driving MOSFET to prevent excessive losses.

• Analog modulation dc .. 100 kHz

• Output current: 0 .. 5 A

• High speed

Adaptive DC/DC converter

Technical Data*

Output current (depending on supply voltage)

Max. compliance voltage

Current noise
Current overshoot
Analog modulation
(Bandwidth)
Current setting input
Current monitor

Trigger

Supply voltage

Power dissipation Dimensions in mm Weight

Operating temperature

0 .. 3.4 A @ Uin > 12 V 0 .. 4.5 A @ Uin > 18 V 0 .. 5.0 A @ Uin = 24 V

Rev. 2001

Single laser diode, up to 10 V < 3 % < 5 %

Approx. 100 kHz

0 .. 5 V 100 mV/A

Analog / TTL (jumper)

12 .. 24 V, min. 3 V above compliance 6 W @ 4.5 A and Uin 12 V 40 x 28 x 20 14 g 0 to +55 °C

- Innovative current regulation concept actively prevents laser diode from overshoots and overcurrent
- Protection against transients through regulated current rise time
- Adaptive DC/DC converter for lowest losses

Optional Accessories: None

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^{*} Specifications measured with a fast recovery diode instead of a laser diode. Technical data is preliminary and subject to change without further notice.