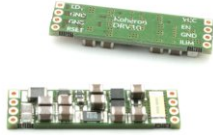


# DRV10 - OEM PCB-mount laser diode driver

Koheron DRV10 is an OEM PCB-mount low-noise laser driver with 12 V compliance voltage. The DRV10 accepts up to 36 V input voltage with efficiency up to 70%. Laser current is set with an external resistor.

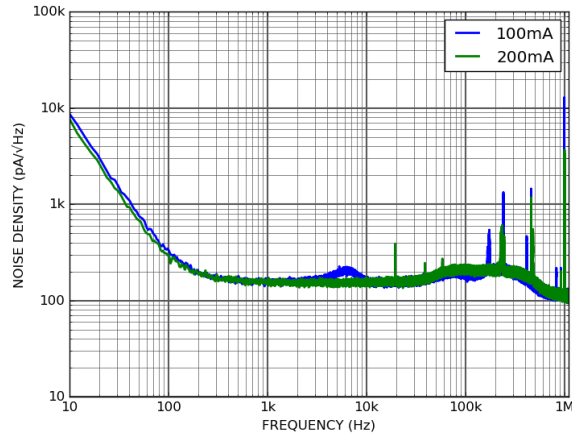


## Specifications

	DRV10-200
Compatible lasers	Floating diodes / Cathode-grounded
Current driver	
Laser current	0 - 200 mA
Compliance voltage	12 V
Temperature coefficient	50 ppm/°C
RMS noise (10 Hz - 1.1 MHz)	< 200 nA <sub>rms</sub>
Current noise density (1 kHz)	180 pA / Hz <sup>1/2</sup>
Current limit	adjustable with external resistor
Other	
Supply voltage	3 - 36 V
Outside Dimensions	38 mm x 10 mm x 4 mm
Weight	3.2 g
Operating temperature	0 °C - 50 °C

## Current noise

The DRV10 laser diode driver [current noise was measured](#) across a 5 Ω resistor with a supply voltage of 5 V.



Integrated noise in the 10 Hz - 1.1 MHz bandwidth is  $158 \text{ nA}_{\text{rms}}$  at 100 mA current and  $159 \text{ nA}_{\text{rms}}$  at 200 mA current. The DRV10 laser diode driver was supplied from a DC/DC converter. The peak of the current noise at 1 MHz is caused by the laser diode driver itself and will not be reduced by using a quieter power supply.