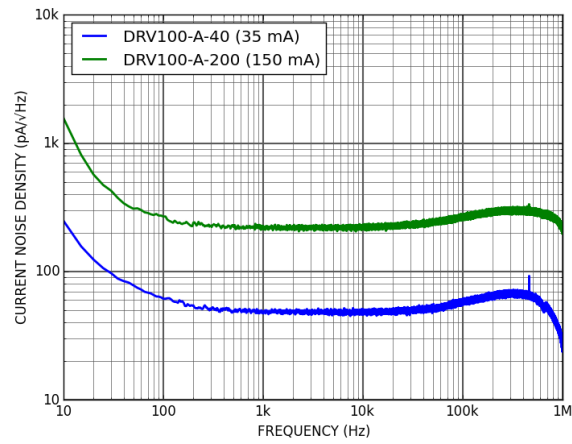


Koheron DRV100 drivers are compact, ultralow noise laser drivers, designed to operate narrow linewidth laser diodes. Power supply can be as low as 3 V. They can be directly operated with a switched supply thanks to a very high noise rejection. Laser current can be adjusted with a manual potentiometer.

Specifications

	DRV100-A-40	DRV100-A-200
Laser current	0 mA to 40 mA	0 mA to 200 mA
Supply voltage	3 V to 15 V	3 V to 15 V
Compliance voltage	4 V	4 V
Current monitor gain	7.2 V/A	1.5 V/A
Current monitor output impedance	1 k Ω	1 k Ω
Temperature coefficient	50 ppm/ $^{\circ}$ C	50 ppm/ $^{\circ}$ C
RMS noise 10 Hz to 1 MHz	60 nA _{rms}	320 nA _{rms}
Current noise density 1 kHz	52 pA/ $\sqrt{\text{Hz}}$	250 pA/ $\sqrt{\text{Hz}}$
Current limit	42 mA	200 mA
Slow start 90 % setpoint	490 ms	490 ms
Outside dimensions	38 mm x 38 mm x 12 mm	38 mm x 38 mm x 12 mm
Weight	10 g	10 g
Compatible lasers	Floating diodes / anode-grounded	Floating diodes / anode-grounded

Current noise



DRV100 current noise

The DRV100 laser driver [current noise was measured](#) across a 30 Ω resistor for the 40 mA laser current version (A-40) and a 5 Ω resistor for the 200 mA laser current version (A-200).

Ordering codes

PRODUCT NUMBER	ATTRIBUTE
DRV100-A-40	Laser current 40 mA
DRV100-A-200	Laser current 200 mA