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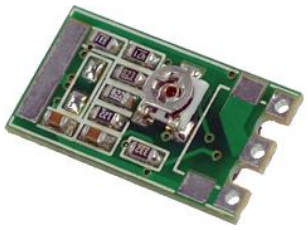
v 1.0 6.10.2014

EU-39



- Laser diode driver
- Supported laser diodes without external PD input
- Adjustable laser diode current, up to 300 mA
- Laser diode output power independent from support voltage

Description

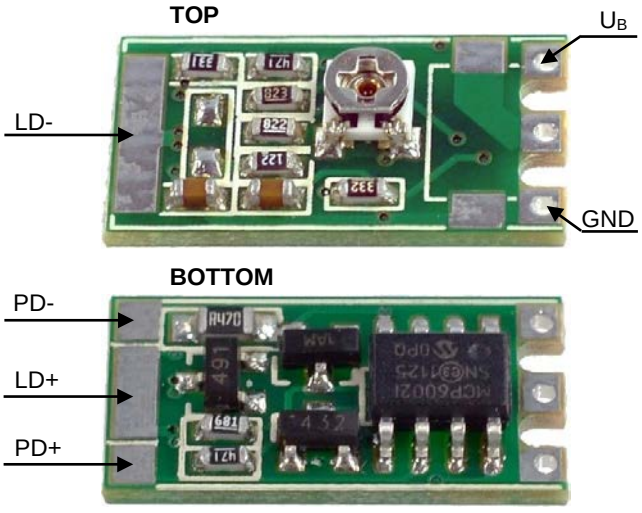
EU-39 is a small and inexpensive driver board for continues wave (CW) operation. It is suitable for laser diodes with external PD input. The **output current** can be easily adjusted by a potentiometer **up to 300 mA**. The laser diode output power is independent from the supply voltage.

Characteristics

Parameter	Symbol	Values Min.	Typ.	Max.	Unit
Supply Voltage	V_B	2.3		3.2	V
Laser Diode Current, adjustable	I_{LD}	0		300	mA
Dimension (H x W x D)			9 x 16 x 4		mm
Weight			0.47		g
Operating Temperature	T_{CASE}	0		50	°C
Storage Temperature	T_{STG}	-20		70	°C

PIN Configuration

EU-39 **with external PD support**



PIN	Function
U_B	Supply Voltage +
GND	Ground
LD+	Laser Diode Anode
LD-	Laser Diode Cathode
PD+	Photo Diode Anode
PD-	Photo Diode Cathode

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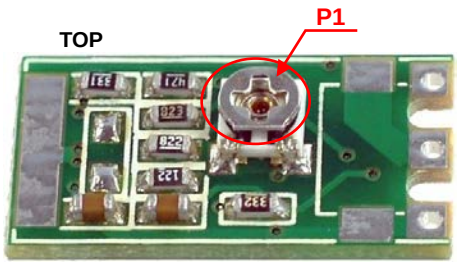
Operation Note

EU-38-PD **with external PD support**

TOP



Potentiometer	Function
P1*	for laser diode current adjustment

Turn left = increase the value
Turn right = decrease the value

** Note: P1 is a trim pot which can be turned clockwise and counterclockwise slowly to the end points. The trim pot can be damaged, if you keep on turning it at the end points !*