



EU-38-PD

- Laser diode driver
- Supported laser diodes: N-type, M-type, P-type
- Suitable for external PD
- Adjustable monitor current
- Adjustable laser diode current, up to 1 A
- Laser diode output power independent from support voltage



Description

EU-38-PD is a small and inexpensive driver board for continuous wave (CW) operation. It is suitable for n-type, m-type and p-type laser diodes, and can be also used together with an external PD or without PD*. The **output current** can be easily adjusted **up to 1 A**. Two potentiometers enable to **adjust the laser diode current and monitor diode current separately**. That allows you to easily fix the operating current to your maximum, and adjust the given output power range via monitor diode current directly. The laser diode output power is independent from the supply voltage.

Characteristics

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Supply Voltage	V_B	4.0		5.0	V
Laser Diode Current, adjustable	I_{LD}	0*		1	A
Dimension (H x W x D)		35 x 15 x 7			mm
Weight		3			g
Operating Temperature	T_{CASE}	0		50	°C
Storage Temperature	T_{STG}	-20		70	°C

* Note: if PD input is not in use, current will be limited to **300 mA – 1 A**

PIN Configuration

EU-38-PD
With PD support

TOP

BOTTOM

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

CAUTION
for high currents use a heat sink
transistor gets hot

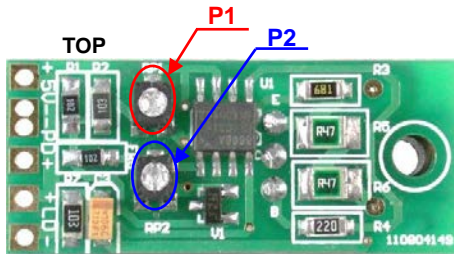
All Dimensions in mm



Operation Note

EU-38-PD

With PD support



Potentiometer	Function
P1*	for laser diode current adjustment
P2*	for monitor diode current adjustment

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

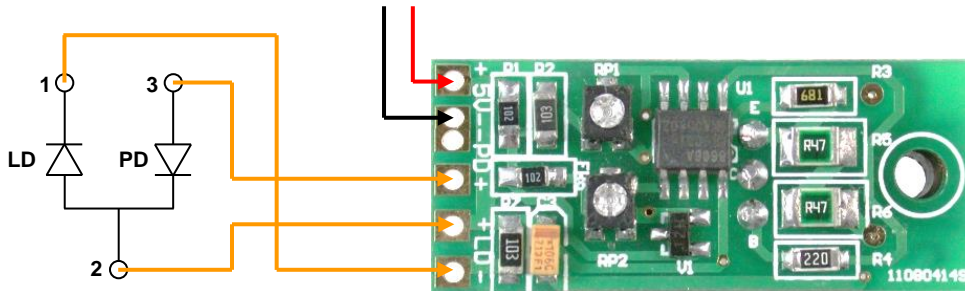
* Note: P1 and P2 are trim pots which can be turned clockwise and counterclockwise slowly to the end points. The trim pot can be damaged, if you keep on turning it at the end points !

Laser Diode Connection Note

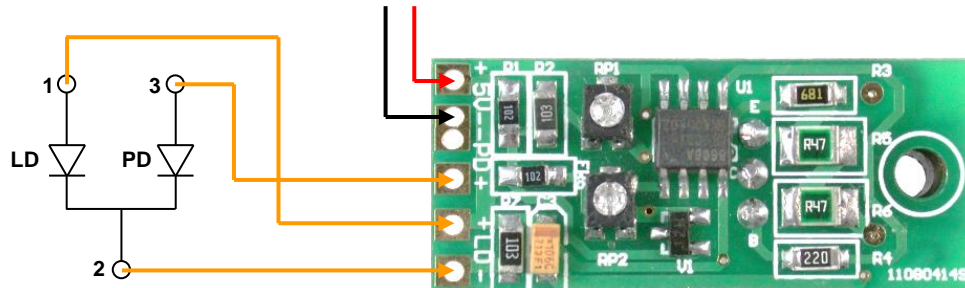
EU-38-PD

With PD support

N-type:



M-type:



P-type:

