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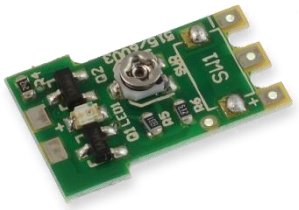
EU-41



- **Laser diode driver**
- **For blue and green laser diodes**
- **APC**
- **N-type**
- **3 VDC**

Description

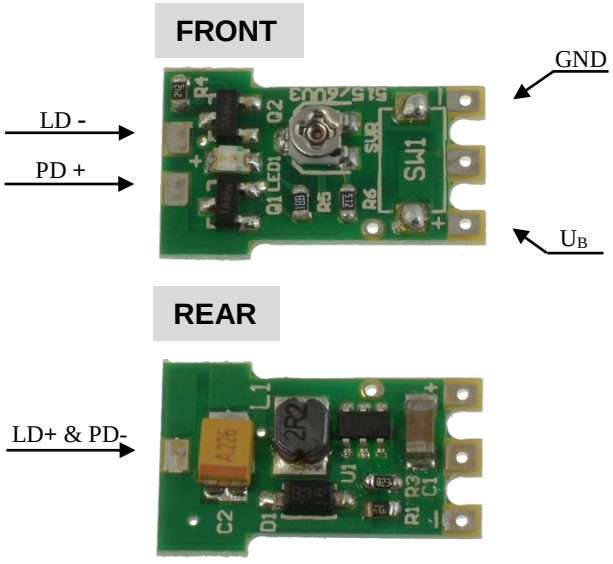
EU-41 is a small and inexpensive driver board for continues wave (CW) operation of blue and green laser diode in n-type configuration (common LD+&PD-). The **Automatic Power Control (APC)** circuit allows for a laser diode current of up to 100 mA, adjustable by means of a potentiometer. **EU-41** utilizes an **up-converting current logic**, and can be operated off a **3 VDC supply voltage.** The laser diodes output power is independent from the drivers supply voltage.

Characteristics

Parameter	Symbol	Values		Unit
		Min.	Max.	
Supply Voltage	U_B	3.0	5.0	V
Laser Diode Current	I_{LD}		100	mA
Dimensions (H x W x D)		18 x 11 x 5		mm
Operating Temperature	T_{CASE}	0	50	°C
Storage Temperature	T_{STG}	- 20	70	°C

PIN Configuration

EU-41



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

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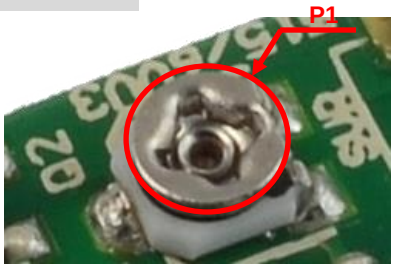
Operation Note

EU-41

FRONT



Potentiometer	Function
P 1	laser diode current adjustment

Turn left (counter clock wise) = increase current

Turn right (clock wise) = decrease current

Caution: P1 is a SMD type trim potentiometer, do not overturn its end points