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LASER LAB SOURCE

marketplace for **Scientists & Engineers**

contact@LaserLabSource.com

800-887-5065

FEATURES

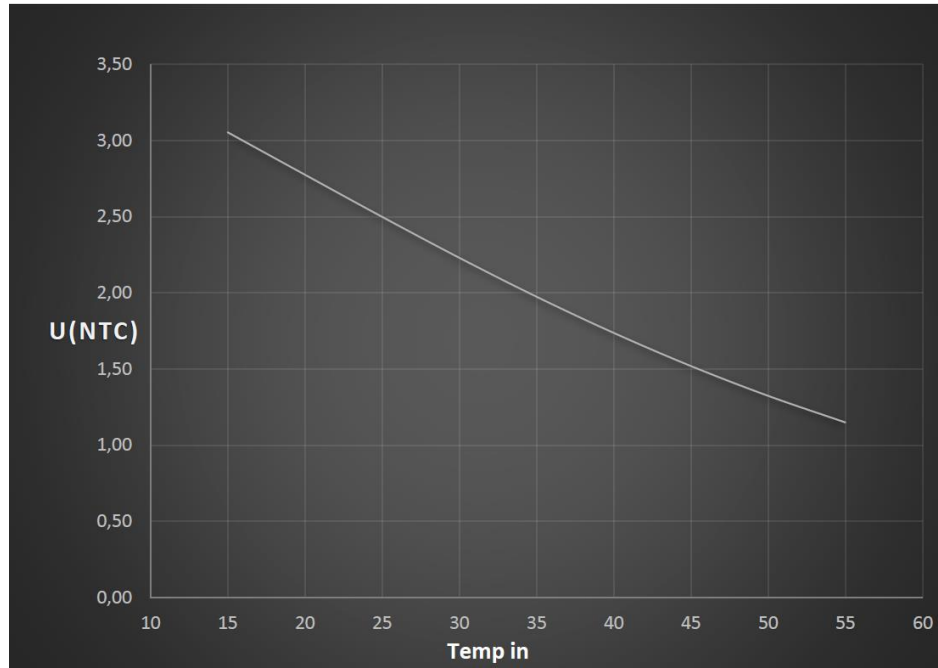
- Laser diode driver for butterfly 10 or 14-Pin LC96 package
- Integrated PI- control loop for laser built in Peltier element
- Wide input voltage range
- Very low power dissipation
- Transient protection
- Overtemperature protection for driver
- Analog set point control
- Enable/Disable for laser current
- Slow start laser diode protection
- Single power supply for complete diode laser current source
- Easy to mount and user friendly
- Optional heat sink
- Customized solutions possible



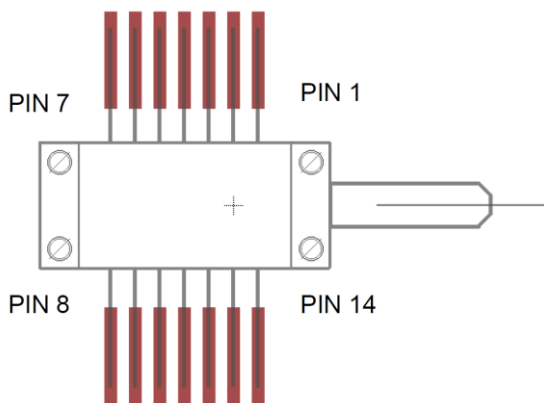
PARAMETERS

		Laser diode driver
Current output		0...2 Amps
Voltage output		0...4,5V
Resolution		Analog Input unlimited
Current accuracy		±0,5%
Current stability		<0,1%
Rise time		<150µs
Fall time		<150µs
Current noise		< 1mA rms in cw mode
Current Limit		2,1 Amps
Enable input		TTL
		TEC control
Sensor type		NTC10k
TEC current		±2 Amps
TEC voltage		±2,5V
Temperature controller		Set point potentiometer 15-25°±1°
Relative accuracy		±0,5K
		Common data
Voltage input		7...25Vdc
Power dissipation		18 Watts
Power output		9 Watts
Dimensions [mm]		62x56x20 (Length x Width x Height)
Weight		0,016kg
Location of use		Only for inside use
Environmental conditions		
Temperature range	Operation	10 ... 45 °C (non-condensing)
	Storage	-40 ... 70 °C
Relative Humidity	Operation	≤ 95 % (non-condensing)
	Storage	≤ 95 % (non-condensing)
Vertical height of use	Storage	12000 m

TEMPERATUR SETPOINT (NTC-10k) DIAGRAMM



LASER DIODE CONNECTION



PIN	FUNCTION	SPECIFICATION AND REMARKS
1	TEC	Maximum ± 2 Amps
2	NTC+	Thermistor NTC 10k High potential 5V
3	PD	Not used *
4	PD	Not used *
5	NTC-	Thermistor NTC 10k Low potential 2.5V @ 25°C
6-9	N.C.	Not used
10	LDA	Laser diode anode
11	LDK	Laser diode cathode
12/13	N.C.	Not used
14	TEC	Maximum ± 2 Amps

*Automatic Power Control on Request

MECHANICAL DRAWING

All dimensions are in mm

