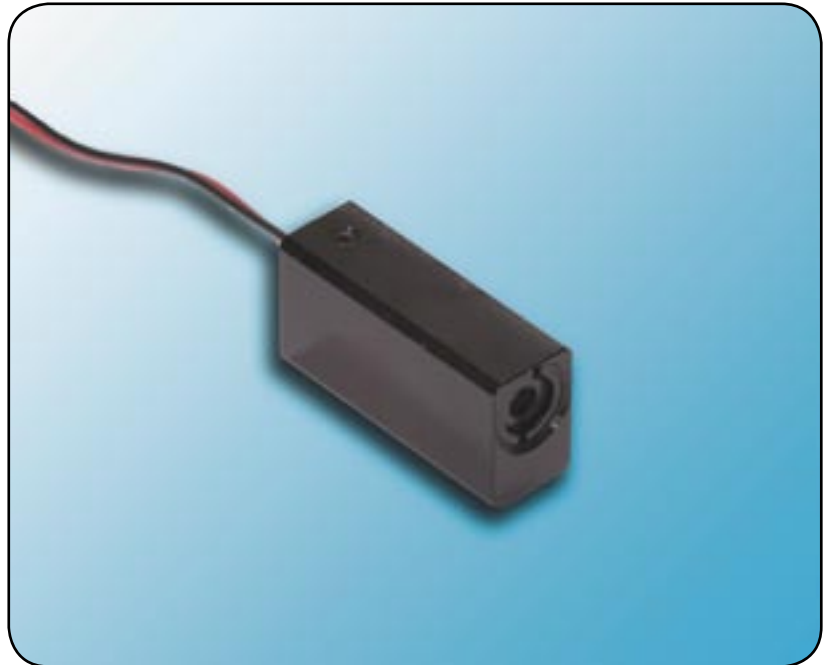


# Microblock Laser Series

## Features

- A compact user adjustable aiming laser
- Ideal in restricted spaces
- Ideal for portable systems
- Easy to mount, rugged design
- Zero directional pointing error
- User adjustable focus
- Rugged vibration resistant construction over wide temperature range
- High brightness, low power



Conventional lasers have a small angular difference between the laser beam and the mechanical axis (boresight error). The MicroBlock allows this error to be manually adjusted to zero, by turning two small grub screws located on the side of the housing. It can also compensate for small mounting errors in the user equipment.

## Applications

- Automotive
- Ceramics
- Timber & packaging
- Aerospace
- Triangulation
- Tomography

The output beam is a high visibility red wavelength meeting either the Class 2 or Class 3R laser safety standards.

The self-contained assembly will operate from battery or low voltage supplies, and uses minimal current. The housing contains the laser diode, driver, optics and boresight adjustment. The metal case is connected to the positive supply, which improves immunity to interference.



## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	30 x 10 x 15 mm
Housing	Black anodized aluminum
Isolated Body	No
Input Leads	2, Red (+ve) Black (0V)
Lead length	220 mm

## OPTICAL SPECIFICATIONS

Diode Power	1mW to 3mW
Wavelength	635nm to 650nm
Power Stability	3 %
Operational Mode	CW
Wavelength vs Temp	2nm / °C
Focus Range	100 mm to infinity
Beam Size at Aperture	4 x 2 mm
Beam Size at 200 mm	120 µm
Beam Divergence	4 x 2 mrad
Beam Adjustment	± 2 degrees
Pointing Stability	2 mrad

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10°C to +40°C
Storage temp	-25°C to +85°C
Operating Humidity (%RH)	90
MTTF at 25°C	> 20,000 hours

## ELECTRICAL SPECIFICATIONS

Input voltage (+ve) Red	+4 Vdc to +6 Vdc
Input voltage (-ve) Black	0 V
Operating Current	35 to 45 mA

*Specifications are typical at 25°C unless otherwise stated*

## STANDARD WAVELENGTHS AND POWER OPTIONS

635nm	1, 3 mW
650nm	1, 3 mW
Custom	Please call for further details

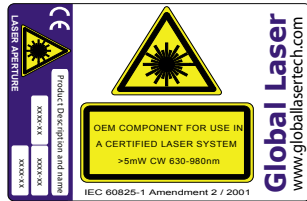
*Please note wavelength tolerance can vary typically by ± 10nm.*

## MOUNTING

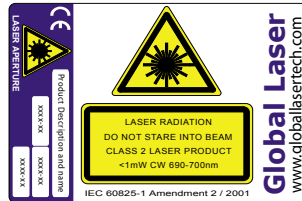
The mounting holes located on the bottom of the Microblock allow it to be securely fixed to a surface to provide sturdy mounting.

## LASER SAFETY

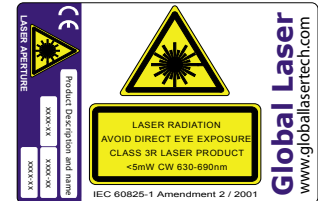
Our lasers are compliant to IEC 60825-1 standards. The lasers fall within one of the following classifications depending on power, wavelength and fan angle. The labels supplied with the units are shown below.



OEM Laser Label



Class 2 Laser Label



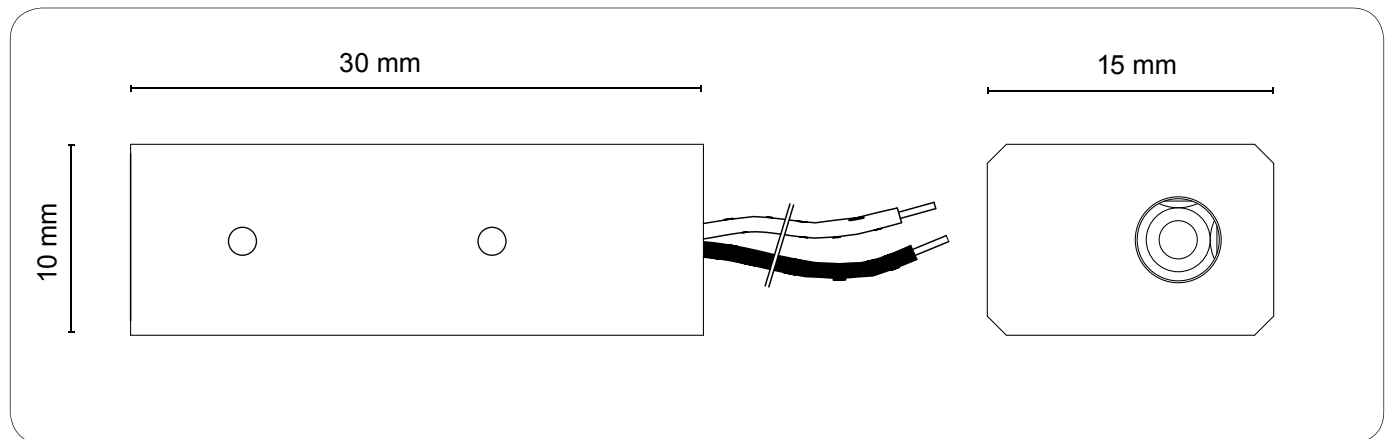
Class 3R Laser Label

## QUALITY & WARRANTY

The Microblock is supplied with a 12 month parts and labour warranty. Our manufacturing operations are certified to ISO9001.



## DIMENSIONS



Please note: Global Laser reserve the right to change descriptions and specifications without notice



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For further information about the Microblock you can contact your local distributor or you can contact Global Laser in the UK.

Your Local Distributor Is: