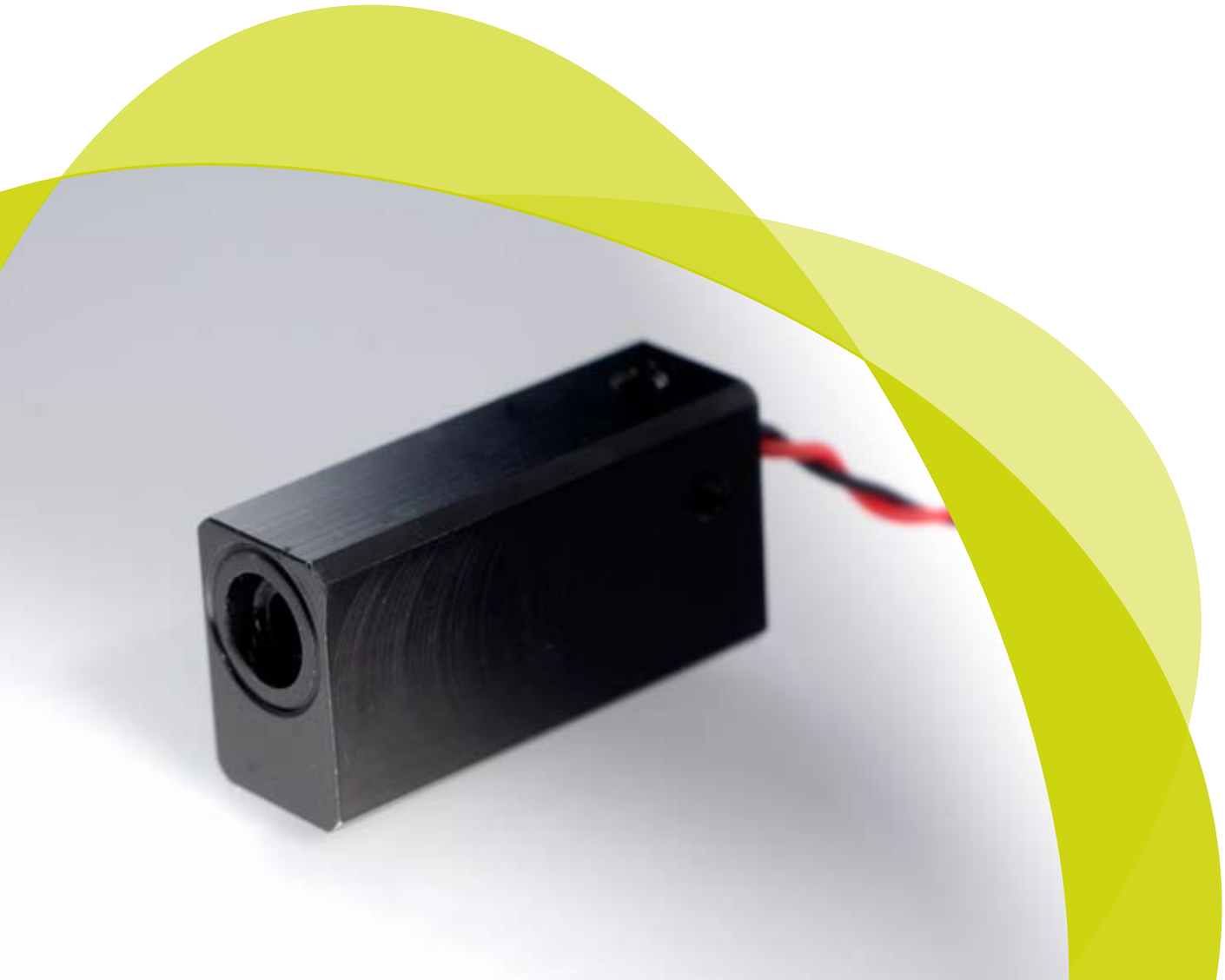

# Microblock Datasheet

# Microblock

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 adjustment.

Outputs are available in wavelengths of 650nm or the more visually intense 635nm where improved visibility is required. The output of the 1mW conforms to Class 2 and the 3mW conforms to Class 3R of the laser safety standards.

The self-contained assembly operates from battery or low voltage supplies, and requires minimal current. The housing contains the laser diode, driver, optics and boresight adjustment.



# Features

- A compact user adjustable aiming laser
- Ideal in restricted spaces and for portable systems
- Low voltage DC operation
- Zero directional pointing error
- Rugged vibration resistant construction over wide temperature range
- User adjustable focus

# Specifications

| **Mechanical Information** | | |
|---|---|---|
| **Dimensions** (LxWxH) (mm) | 30 x 10 x 15 | |
| **Housing** | Black anodized aluminium | |
| **Isolated Body** | Yes | |
| **Input Leads** | 2, Red (+Ve) Black (0 V) | |
| **Lead Length** (mm) | 220 | |
| **Optical Information** | | |
| **Wavelength** (nm) | **Power's** (mW) | **Power's** (mW) |
| 635 | 1, 3 | 1, 3 |
| 650 | 1, 3 | 1, 3 |
| Custom | Please call with your requirements | |
| **Power Stability** (typical) | ±3% (10 to 45°) | |
| **Operational Mode** | CW | |
| **Focus Range** (mm) | 50 to infinity | |
| **Beam Size at Aperture** (mm) | 4 x 2 | |
| **Beam Size at 50mm** (µm) | < 70 (typical) | |
| **Beam Divergence** (mrad) | 0.5 | |
| **Beam Adjustment** µm(°) | ± 2 degrees | |
| **Environmental Information** | | |
| **Operating Case Temperature** (°C) | -10 to +45 | |
| **Storage Temperature** (°C) | -40 to +80 | |
| **Operating Humidity** (%RH) | 90 ( non condensing ) | |
| **MTTF @ 25°C** (hrs) | >25,000* | |
| **Electrical Specifications** | | |
| **Input Voltage (+ve)** Red (Vdc) | +3.3 to +5.0 | |
| **Input Voltage (-ve)** Black (V) | 0 | |
| **Operating Current** (mA) | 20 to 45 | |

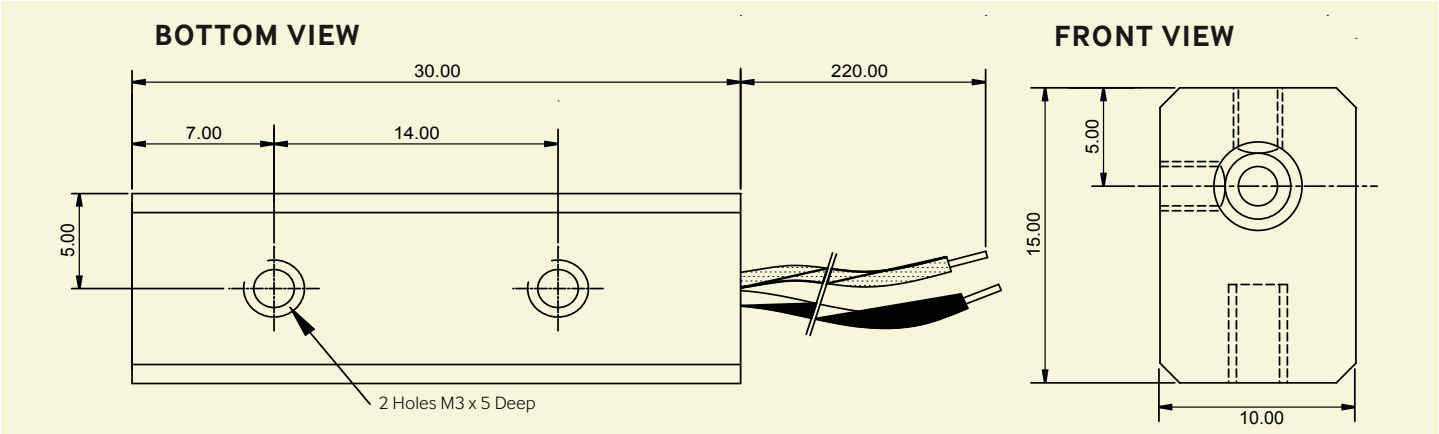
NOTES
* Varies with laser diode type
All specifications are typical @ 25°C

# Mounting

The mounting holes (M9 x 0.9 thread) located on the bottom of the Microblock allows it to be securely fixed to a surface to provide sturdy mounting.

# Mechanical Dimensions

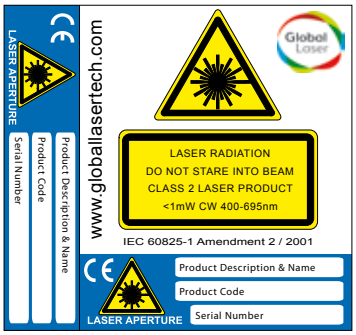
## Microblock



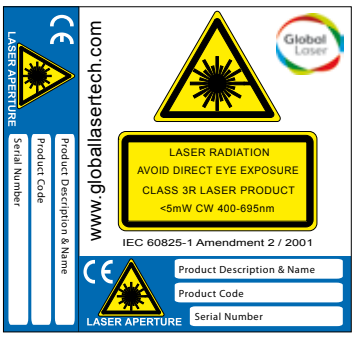

## Laser Safety

Our lasers are compliant to IEC 60825-1 2007 standards. The lasers fall within one of the following classifications depending on power and wavelength.


OEM Laser Label




Class 2 Laser Label




Class 3R Laser Label

## Quality & Warranty

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

Please note: Global Laser reserve the rights to change descriptions and specification without notice.

Global Laser

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SYSTEM CERTIFICATION
ISO 9001:2000 SGS

ISO9001 Certified

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