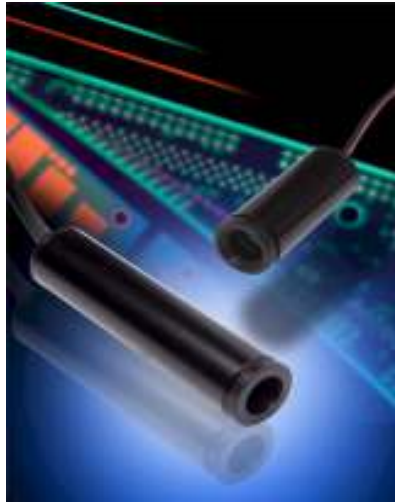


# UH Series Red Laser Diode Module



Part No: UH5-10G-635



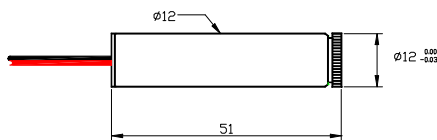
## Product Features

- High Stability and low noise
- Collimated or Adjustable focus beam
- Reverse Polarity Protection
- Custom Options Available

## Applications

- Measurement
- Bioanalytical
- Automation
- Alignment

## Mechanical Drawing



## Specifications

### OPTICAL

|                           |                                  |
|---------------------------|----------------------------------|
| Wavelength                | 635 nm                           |
| Optical Output Power      | 10 mW                            |
| Stability                 | <1%                              |
| Wavelength Drift          | 0.2nm/°C                         |
| Noise (20MHz Bandwidth)   | <0.5% RMS                        |
| Laser Class               | Class IIIB                       |
| Laser Operation           | Continuous                       |
| Laser Structure           | Single Mode Laser                |
| Divergence at collimation | <0.5 milliradian                 |
| Spot Size                 | Adjustable<br>Or Collimated(5mm) |
| Minimum Spot Size         | <120µm at <10" distance          |
| Pointing Stability        | <50µrad                          |

### ELECTRICAL

|                                |                    |
|--------------------------------|--------------------|
| Operating Voltage <sup>1</sup> | 3 to 5 VDC         |
| Operating Current              | <80 mA             |
| Control Circuit                | Auto Power Control |
| Electrical Connections         | +Red, -Black       |

### MECHANICAL

|                                     |                              |
|-------------------------------------|------------------------------|
| Dimension                           | 12mm(D)x 51mm (L)            |
| Cable                               | 200mm                        |
| Operating Temperature               | -10°C to +50°C               |
| Storage Temperature                 | -40°C to +80°C               |
| Heat Sink Requirements <sup>2</sup> | Recommended for extended use |

### Notes

1. Please ensure there is no voltage/current surge
2. Heat Sink: The UH Series Red Laser Diode Module is designed to dissipate heat through its body. Do not use a thermally insulating material for mounting. Do not restrict air circulation around the device. An additional heat sink can be used to maximize the performance and life time of the laser.

**Caution:** The case is internally connected to the circuit; damaging the anodized surface may result in failure of the laser module.



UH5-10G-635 is sold only for use in OEM equipment. The OEM is responsible for compliance with all applicable safety regulations

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