

660nm laser diode module, elliptical beam, 12mm diameter

A compact, ergonomically designed 660nm laser diode module suitable for a wide range of applications.

Laser diode modules from the Optoelectronics Company are available in wavelengths from 405nm to 852nm, in a wide range of optical output powers to customer specifications.

specifications (typical figures at 25° C)

part number	500-010007	500-010008
wavelength (nm)	660	660
power (mW)	25.0	75.0
typ. operating current (mA)	100	150
power stability	<5%	<5%
pointing stability	<0.2mrad/°C	<0.2mrad/°C
bore sighting	<2.0°	<2.0°
operating voltage	3.0 – 6.0V DC	3.0 – 6.0V DC
beam diameter (mm)	4 x 2	4 x 2
beam divergence (mrad)	0.6 x 0.3	0.6 x 0.3
operating temperature (non-condensing)	-10°C to +50°C	-10°C to +50°C
storage temperature	-40°C to +85°C	-40°C to +85°C
housing material	Anodised Aluminium	Anodised Aluminium

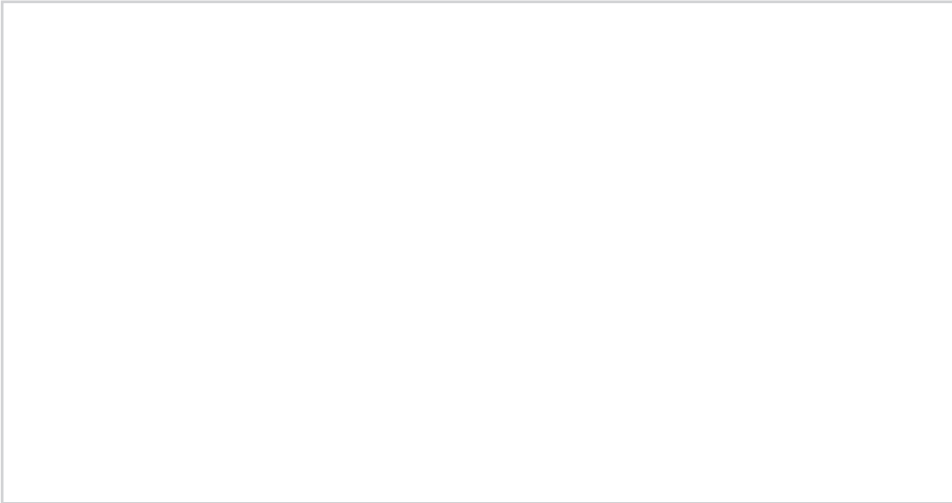
key features

- Externally adjustable optics with lock ring
- Self-contained drive electronics
- Panasonic glass lens
- Coloured end caps for easy identification
- High reliability
- Compact, ergonomic design
- Laser engraving available on request (e.g. your part number)
- Other output powers available on request

applications

- Industrial alignment
- Positioning
- Industrial inspection
- Sensors

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warranty

All Laser Diode Modules are covered by a two year warranty. Specifications subject to change without notice. E&OE.

laser safety

The light emitted from these devices has been set in accordance with IEC60825. However, staring into the beam, whether directly or indirectly, must be avoided. IEC60825 classifies laser products into 3 categories depending on light emitted, wavelength and eye safety.

CLASS 11: "CAUTION", visible laser light less than 1.0mW. Considered eye-safe, normal exposure to this type of beam will not cause permanent damage to the retina.

CLASS 111R: "DANGER", visible laser light between 1.0mW and 5.0mW. Considered eye-safe with caution. Focussing of this light into the eye could cause some damage.

CLASS 111B: "DANGER", infrared (IR) and high power visible lasers considered dangerous to the retina if exposed.

Heat Sinking

Please note that premature or sudden catastrophic laser diode failure may occur if the maximum operating temperature is exceeded. For optimal laser diode lifetime we recommend our laser diode modules are provided with an additional form of external heatsinking. The lower the operating temperature of the laser diode, the longer will be its lifetime.

NB: Please note that while complying with the above classifications, unless otherwise stated, our laser diode products are not certified and are designed solely for use in OEM products. The way in which the device is used in the final product may alter its original design classification, and it is the responsibility of the OEM to ensure compliance with the relevant standards.