

laser diode collimator, elliptical beam, 520nm 30mW

A compact, 520nm direct green laser diode collimator with fixed collimating/focus lens offering the brightest collimated laser light for ambient lighting conditions.

It consists of a 520nm direct green laser diode, a laser diode holder, a collimating lens holder and an aspherical collimating lens.

Applications include outdoor rangefinders, levellers and distance meters, military alignment and targeting, medical and industrial alignment, industrial instrumentation and sensing.

Laser diode collimators from the Optoelectronics Company are available in other wavelengths and in a wide range of optical output powers to customer specifications.



specifications (typical figures at 25° C)

part number	500-052008
wavelength (nm)	520
max. power (mW)	30
typ. operating current (mA)	140
pointing stability	<0.2mrad/°C
bore sighting	<2.0°
beam diameter (mm)	3.5 x 1
beam divergence (mrad) (collimated beam)	1 x 0.6
operating temperature (non-condensing)	-10°C to +60°C
storage temperature	-40°C to +85°C
housing material	Anodised Aluminium

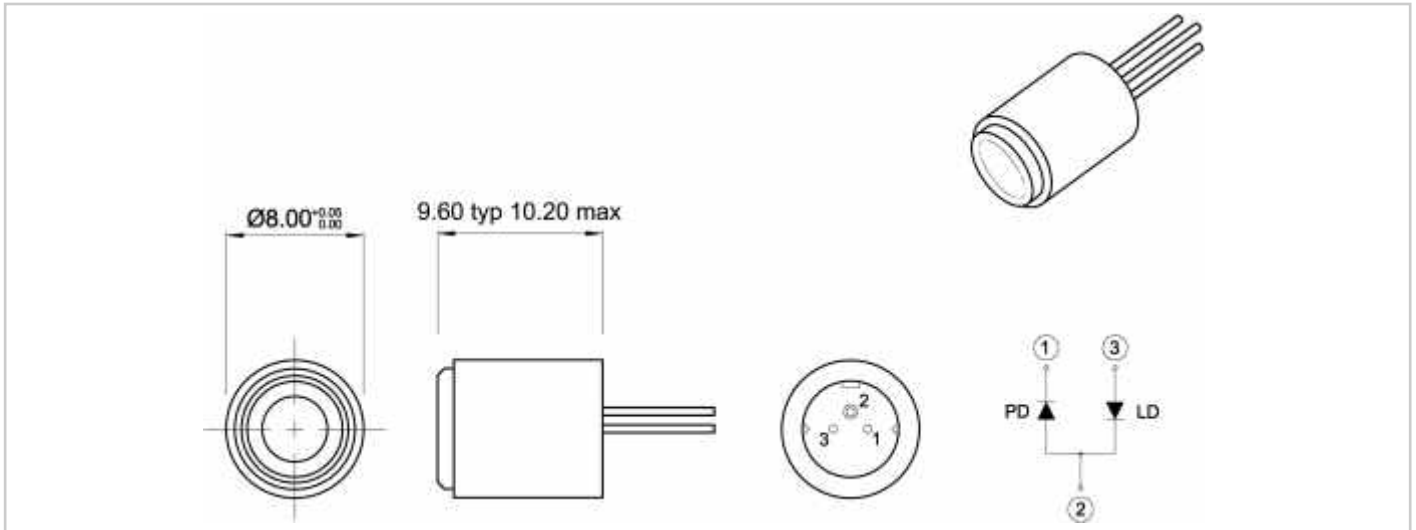
key features

- High visibility
- Fixed optics
- Compact, ergonomic design
- Collimated or focused output

applications

- Outdoor point & line lasers
- Military alignment/targeting
- Medical alignment
- Industrial alignment
- Sensing & positioning
- Industrial instrumentation

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warranty

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

laser safety

LASER APERTURE	LASER APERTURE	LASER APERTURE	LASER APERTURE
<p>LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT MAX. POWER: 1mW WAVELENGTH: 400 - 695nm COMPLIES WITH IEC60825-1 2001</p>	<p>LASER RADIATION AVOID EXPOSURE TO BEAM CLASS 3B LASER PRODUCT MAX. POWER: 500mW WAVELENGTH: 315 - 700nm COMPLIES WITH IEC60825-1 2001</p>	<p>INVISIBLE LASER RADIATION AVOID EXPOSURE TO BEAM CLASS 3B LASER PRODUCT MAX. POWER: 500mW WAVELENGTH: 700 - 980nm COMPLIES WITH IEC60825-1 2001</p>	<p>LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT MAX. POWER: 5mW WAVELENGTH: 400 - 695nm COMPLIES WITH IEC60825-1 2001</p>

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 II: "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 II IR: "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 II B: "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.