

Egismos *DATASHEET*

532nm DPSS Green Laser Diode Modules Key features

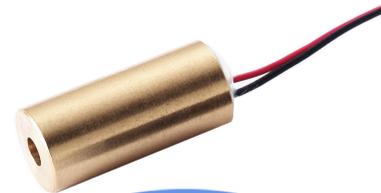
Wavelength λ : 532nm

Output power: <1mW, <5mW

Dimension: 8mm x 40mm

Housing: Hard anodized aluminum or Brass

High reliability



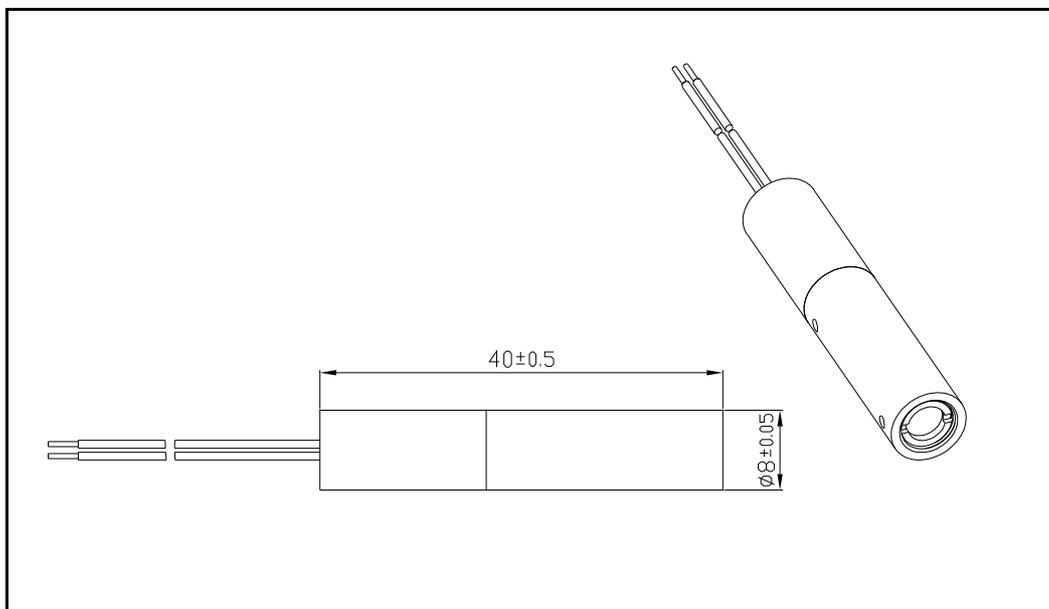
S83532
Laser Module

Laser Diode Solutions

The 532nm Industrial Laser Diode Modules produce an elliptical, collimated output beam with output powers of <1mW or <5mW. Operating voltage is from 2.8V to 6V DC at an operating current of 150~300mA. Beam divergence is <0.3mrad for H series.

The modules consist of a metallic housing, laser diode, drive circuit, crystal, and collimating/focusing lens. Electrical connections, including optional TTL modulation signal, are made via external flying leads. The lens may be adjusted to produce either a collimated beam or focused spot.

The S8 and H8 range of laser modules has been designed as a complete laser diode solution for OEM use in diverse applications such as industrial alignment and positioning, medical fluorescence and bar code readers.



Egismos

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Specifications (typical @ $t_c=25^{\circ}\text{C}$)

| Item. | symbol | S835321 R S835325 R | H835321 R H835325 R |
|----------------------------|-----------------|--|--|
| Mode | | CW | CW |
| Wavelength | λ | 532nm | 532nm |
| Laser Pattern | | Round | Round |
| Dimeter x Length | $\Phi \times L$ | 8 x40 mm | 8 x40 mm |
| Output Power | P_o | <1mW, <5mW | <1mW, 0.8~1.0mW (Class 2M) <5mW, 3.5~4.2mW |
| Power Stability | | < 30% | <20%, min. <10% |
| Collimated Beam Size | | <20mm at 5m | <6mm at 10m |
| Collimated Beam Divergence | | <2.0 mrad | <0.3 mrad |
| Operating Voltage(DC) | V_o | 2.8-6.0V | 2.8-6.0V |
| CW Operating Current | I_o | 150~300mA typ., 350mA max. | 150~300mA typ., 320mA max. |
| Operating Temperature | T_o | +15 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$ | +15 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$ |
| Storage Temperature | | -40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ | -40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ |
| Bore Sight | | -- | <40 mm/m |
| Houseing Material | | Brass | Brass/Aluminum |
| Mean time to failure(MTTF) | | >2,000 hrs | >5,000 hrs |



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 three different 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 III R

"Danger", visible laser light between 1.0mW and 5.0mW. Considered eye safe with caution. Focusing of this light into the eye could cause some damage.

CLASS III B

"Danger", infrared (IR), and high power visible lasers considered dangerous to the retina if exposed. NB: It is important to 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.

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