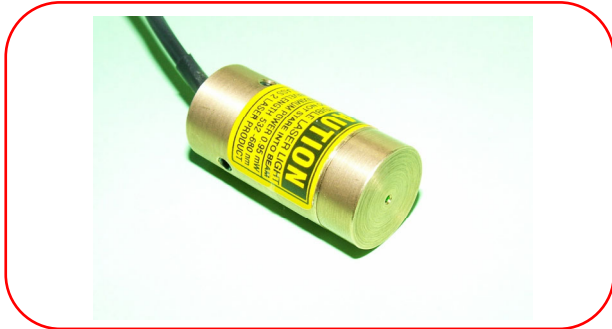


Green Laser Module - 1



Features

- Compact design 16mm dia. x 32mm
- Up to 100kHz external pulsing option
- Range of output powers
- Brass body for thermal dissipation
- Small beam diameter
- Rugged robust design

GLM-1

The GLM-1 Series of laser diode modules are designed for use in industrial, scientific, educational, and O.E.M. applications. The units are of compact size, allowing for easy fitting into the most confined spaces. The case is made of brass, an excellent material for heat dissipation.

Mounting considerations

Due to the compact size and the cylindrical shape of the GLM, it can be easily mounted permanently or temporarily to suit the application. LasereX currently offers the Style-3 black anodised mount featuring a manual rotation tilt, as well as x-y fine adjustment. **It should be noted that the outer Brass casing on the module is positive, therefore it should be isolated from earthed equipment.** Ensure that the unit or its mounting is not exposed to direct sunlight. If used externally, ensure that the module is not aimed toward the sun as this will cause the sunlight to be focussed onto the laser diode resulting in possible damage. Heat sinking should also be considered for modules in use for extended periods of time as the laser lifetime decreases by a factor of two for every ten degrees increase in operating temperature.

Wiring and power requirements

The GLM-1 series requires a regulated operating voltage of 3-5V DC, with an operating current of $\leq 200\text{mA}$. LasereX can provide you with a number of options to power your module; these include battery operation which uses 3 x 'AA' rechargeable batteries (supplied). There are also in store options for DC input voltages ranging between 9 – 32V; or AC/DC solutions to mains power of 240VAC or 110VAC wall points. The standard GLM has a positive red wire and a negative blue wire. On pulsing models there is a third yellow wire that requires an input voltage of positive 3-5VDC to power the laser.

OEM and Custom Applications

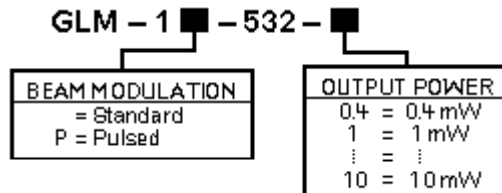
LasereX hosts a professional Engineering team who have many years experience in laser applications and custom solutions. The new generation GLM is an attractive module to use in your next alignment or commercial application.

For any enquiries, please contact LasereX Technologies via Technical@lasereX.net.

General Specifications:

Wavelength	532nm
Power Output Setting	0.4; 1; 3; 5; 10mW (fixed unless otherwise specified)
Beam Size at Aperture	1 mm
Divergence (collimated beam)	5mrad
Operating voltage	3 - 5V DC (Power conversion options in store)
Typical Operating current (max)	200mA

Product Code:



This product is registered with the FDA in accordance with 21 CFR 1040.10(a)(3)(I). The complete laser product manufacturer must supply adequate instructions for installation and servicing of this product. This is not a removable laser system. This product is designated for use solely as a component in an electronic product and therefore does not comply with the requirements of 21 CFR 1040.10 and 1040.11 for complete laser products. Avoid direct eye exposure to the beam.