

## Features

- ▶ Typical wavelength, 658nm
  - ▶ Stabilized optical power 45mW
  - ▶ Single supply voltage, 7~24V DC
  - ▶ **Precisely adjustable focus beam size**
  - ▶ **Modulation : digital ~300KHz**
  - ▶ **3 elements optic structure**  
(2 lens fixed, 1 lens mobile)
  - ▶ Wire length : 30cm(standard) or custom
  - ▶ Laser class : 3B (IEC 60825-1)
- ◆ **Option : Bracket & Power supply.**

## Specification

### Optical

Optical power(mW)	45 (Tc=25°C)
LD power(mW)	80 (Max)
Wavelength(nm)	658 ±4
Focus Beam Dia(mm)	0.1x0.1(at 300mm)
Collimated Beam Dia(mm)	2.5x2(at 10m)
Collimated Beam Div(mrad)	<0.5
Beam Quality	TEM00, M <sup>2</sup> <1.5
Beam intensity Pattern	Gaussian
LD Pin Connection	Case Ground

### Electrical

Operating voltage(DC V)	7~24 ± 5%
Operating current(mA)	70 (Typ.)
Drive circuit	APC
Operating Temp.(°C)	-10 ~ +60
Storage Temp.(°C)	-40 ~ +85

### Mechanical

Weight(g)	38 ± 0.5
Dimensions(mm)	16Φ X 112
Operating lifetime(h)	30,000~50,000 (@RT)
Housing material	Aluminum

## Description

The GD series laser diode module combines laser diode technology, 3 elements lens optics, and Sophisticated electronics within a Slim and light aluminum anodized housing for variety of applications.

Specially, 3 lens structure compensates line beam's curve & unbalance and dot beam's accurate focused point.

This series of modules provides a high-brightness elliptical laser beam, and have various wavelengths and optical output power. Applications include a measurement, positioning, lighting, alignment, guidelines, pointing, switching, leveling, and machine vision etc. Useful in a variety of medical, industrial, and scientific instrumentation, as well as general R&D work.

## Drawings

