LANICS™
LASER ELECTRONICS

# Laser Diode Module
# LM-6580GD

## Features

- Typical wavelength, 658nm
- Stabilized optical power 45mW
- Single supply voltage, 7~24V DC
- Precisely adjustable focus beam size
- 3 elements optic structure
  (2 lens fixed,1 lens mobile)
- Wire length : 30cm(standard) or custom
- Laser class : Ⅲb

◆ Option : Bracket & Power supply.

## Specification

### Optical

| | |
|---|---|
| Optical power(mW) | 45 (Tc=25°C) |
| LD power(mW) | 80 (Max) |
| Output Efficiency(%) | 56 |
| 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, $M^2$<1.5 |
| Beam intensity Pattern | Gaussian |
| LD Pin Connection | Case Ground |

### Electrical

| | |
|---|---|
| Operating voltage(DC V) | 7~24 ± 5% |
| Operating current(mA) | 150 (Max) |
| Drive circuit | APC |
| Operating Temp.(°C) | -10 ~ +60 |
| Storage Temp.(°C) | -40 ~ +85 |

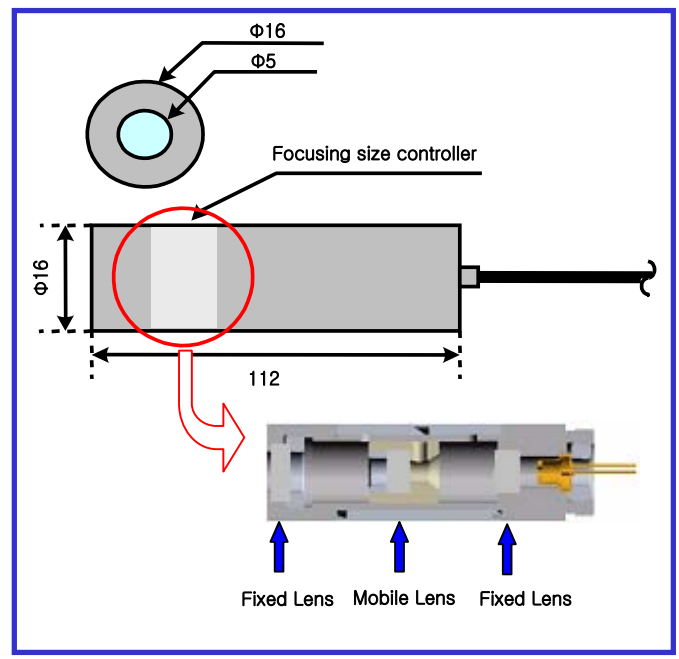
### Mechanical

| | |
|---|---|
| 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

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