

## Features

- ▶ Typical wavelength, 980nm
  - ▶ Stabilized optical power 30mW
  - ▶ Single supply voltage, 7~24V DC
  - ▶ Line generator
  - ▶ **Adjustable beam line width**
  - ▶ Low power consumption
  - ▶ Cylindrical glass lens
  - ▶ Wire length : 30cm(standard) or custom
  - ▶ Laser class : III b
- ◆ **Option : Bracket & Power supply.**

## Description

The LM-9850GW series laser diode module combines laser diode technology, quality optics and sophisticated electronics within a slim and light aluminum anodized housing for variety of applications. This series of modules provides infrared(980nm) laser line. Applications include a measurement, positioning, 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.

## Specification

### ● Optical

|                     |               |
|---------------------|---------------|
| Optical power(mW)   | 30 (Tc=25°C)  |
| LD power(mW)        | 50 (Max)      |
| Wavelength(nm)      | 980 ±15       |
| Fan angle(°)        | 90            |
| Beam line width(mm) | 0.5~8 (at 1m) |

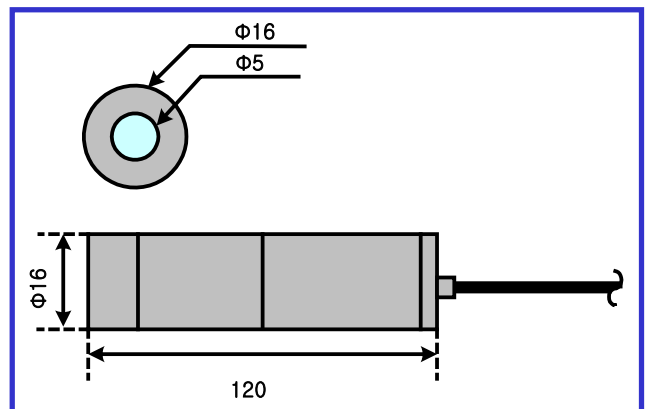
### ● Electrical

|                         |           |
|-------------------------|-----------|
| Operating voltage(DC V) | 7~24 ± 5% |
| Operating current(mA)   | 100(Max)  |
| Operating Temp.(°C)     | -10 ~ +50 |
| Storage Temp.(°C)       | -40 ~ +85 |

### ● Mechanical

|                       |              |
|-----------------------|--------------|
| Weight(g)             | 42 ± 0.5     |
| Dimensions(mm)        | 16Φ X 120    |
| Operating lifetime(h) | 50,000 (@RT) |
| Housing material      | Aluminum     |

## Drawings



\* Range of fan angle.

| Symbol | Angle | Line length [ mm ] (distance 1m) |                 |
|--------|-------|----------------------------------|-----------------|
|        |       | Inclined at 90°                  | Inclined at 45° |
| 4D     | 45°   | 830                              | 2000            |
| 6D     | 60°   | 1,160                            | 3500            |
| 9D     | 90°   | 2,000                            | About 5000      |
| 12D    | 120°  | 3,400                            | About 8000      |

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