



Features

- Printed Circuit Board mountable
- Compact size only 10 x 12 x 13mm long
- Variable focus
- Focussed spot size <100µm
- Black anodised body

The LDM-1 series of laser diode modules is ideally suited to applications such as bore sighting, alignment, robot control, positioning and edge detection. They include precision optical and mechanical components enclosed in a black anodised aluminium body.

The LDM-1 series incorporates an adjustable lens which can be used to focus the beam to a very small spot size. Power is connected to the module using the positive (dotted) and negative terminal pins. The positive pin is also connected to the modules case.

Specifications:

| | |
|------------------------------|---------------------------------------|
| Available Wavelengths | 635, 650, 670, 780, 808, 830 & 850nm |
| Available Powers | 1 - 50mW |
| Beam Size at aperture | 1mm x 2.5 mm |
| Divergence (collimated beam) | < 1mrad |
| Spot size (focussed beam) | < 100µm |
| Operating voltage | 3 - 6V DC |
| Operating current | 30 - 100mA (Depending on laser power) |

Specify part numbers as follows: **LDM-1P-650-3**

(i.e. LDM-1 series, pulsed option, wavelength = 650nm, output power = 3mw)

Options

| | |
|------------------------------|---|
| Collimated beam for pointing | C |
| 100kHz Pulsed option | P |
| Variable Focus | V |

This product is registered with the FDA in accordance with 21 CFR 1040.10(a)(3)(I) and is compliant with European, and Australia/New Zealand laser safety standards 73/23/EEC - 98/37/EG, 89/336/EEC, EN 50081-1, EN-31252, EN-31252, EN 55022, EN 60825-1 and AS/NZS 2211:1997. 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 designed 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.

Distribution in the UK & Ireland



**Characterisation,
Measurement &
Analysis**

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