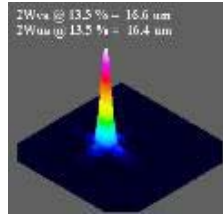


LDM-1 Micro Module



Features

- Ultra Compact size 10mm x 12mm x 13mm
- Small collimated beam size 2.5mm x 0.8mm
- PCB Board mountable
- Variable Focus
- Focal spot size <10microns at 7.5mm
- Available with range of line generators
- Cost effective

| | | | |
|---|----------------------------|--|----------------------------|
| Available Wavelengths & Powers (Note: The wavelengths and powers shown are only our most popular. Please contact us if your requirements are not covered by these). | Wavelength (nm) | | Power (mW) |
| | 635nm | | 0.5 - 20mW |
| | 650nm | | 0.5 - 20mW |
| | 670nm | | 0.5 - 7mW |
| | 780nm | | 1 - 50mW |
| | 808nm | | 1 – 7mW |
| | 830nm | | 5 - 30mW |
| | 840nm | | 0.5 - 7mW |
| | 850nm | | 0.5 – 7mW |
| | 905nm | | 0.5 – 20mW |
| | | | |
| Beam Size at output | 2.5mm x 0.8mm | | |
| | | | |
| Typical Achievable focal spot sizes (1/e2) (spot circularity of measurements (0.95 typical)) | Focus Distance (mm) | | Spot Size (µm) |
| | 7.5 | | 10 |
| | 15 | | 22 |
| | 20 | | 30 |
| | 30 | | 42 |
| | 40 | | 57 |
| | | | |
| Typical Achievable Line Thicknesses (1/e2) (when used with one of our line generators) | Focus Distance (mm) | | Line Thickness (µm) |
| | 7.5 | | 12 |
| | 15 | | 24 |
| | 20 | | 34 |
| | 30 | | 46 |
| | 40 | | 62 |
| | | | |
| Beam Divergence | 1.0 mrad | | |

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.

LDM-1 Micro Module



| | | |
|----------------------------------|-------------------------|----------------------------|
| Physical Dimensions | 10mm x 12mm x 13mm | |
| Operating Voltage | 3 – 6 VDC | |
| Typical Operating Current | Laser Power (mW) | Current (mA) |
| | 1-4 | <45 |
| | 5-50 | <120 |
| Power Stability (25deg C) | 2hr, <1% | |
| Beam Pointing Stability | <50urad | |
| Spectral Linewidth | <0.5nm typical | |
| External TTL Modulation | Standard LDM-4 | With Pulsing Option |
| | 1kHz | 500kHz |

Standard Gaussian Line Generator Options

| Part Number | Line Generator Fan Angle |
|-------------|--------------------------|
| L5 | 2 degrees |
| L8 | 4 degrees |
| L15 | 8 degrees |
| L45 | 30 degrees |
| L60 | 45 degrees |
| L70 | 70 degrees |
| L90 | 90 degrees |

Please contact us if you require a uniform intensity line generator with the LDM-1 module.

Determining Laser Specifications from part number

| LDM - [] - [] - [] - [] - [] | | | | | |
|-----------------------------------|-------------|-----------|-----------------------|-------------------|-----------------|
| MODULE | WAVELENGTH | POWER | LENS | FOCUS | OPTIC |
| 1 = Micro | 635 = 635nm | 1 = 1mW | P = Plastic | F100 = 100mm | L5 = Line 5° |
| 2 = X-Y Adjustable | 650 = 650nm | 3 = 3mW | G = Glass | F350 = 350mm | L10 = Line 10° |
| 3 = Sealed | .. | .. | .. | .. | .. |
| 4 = Standard | .. | .. | .. | .. | .. |
| 5 = Low Divergence | 980 = 980nm | 50 = 50mW | GA = Glass Aperatured | none = Collimated | CH = Cross Hair |

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