

LDM-5 Low Divergence Module



Features

- Compact size (11mm dia. x 37mm long)
- Slow start, reverse polarity and over voltage protection
- Circular output beam > 0.90
- Low beam divergence <0.3 mrad
- Small focal spots
- Variable Focus
- 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 - 10mW |
| | 650nm | 0.5 - 15mW |
| | 670nm | 0.5 - 2mW |
| | 780nm | 1 - 15mW |
| | 808nm | 1 - 10mW |
| | 830nm | 3 - 12mW |
| | 840nm | 0.5 - 3mW |
| | 850nm | 0.5 - 3mW |
| | 905nm | 0.5 - 10mW |
| Beam Size / shape at output | 4.5mm diameter – circularity > 0.95 | |
| Typical Achievable focal spot sizes (1/e²) (spot circularity of measurements (0.95 typical)) | Focus Distance (mm) | Spot Size (μm) |
| | 75 | 21.0 |
| | 100 | 31.6 |
| | 150 | 44.5 |
| | 200 | 58.6 |
| | 250 | 72.0 |
| Typical Achievable Line Thicknesses (1/e²) (when used with one of our line generators) | Focus Distance (mm) | Line Thickness (μm) |
| | 75 | 24.0 |
| | 100 | 35.0 |
| | 150 | 48.0 |
| | 200 | 63.0 |
| | 250 | 76.0 |
| Beam Divergence | 0.3 mrad | |
| Mechanical / Optical Alignment | Variable Focus < +/- 15mm @ 3m | |

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.

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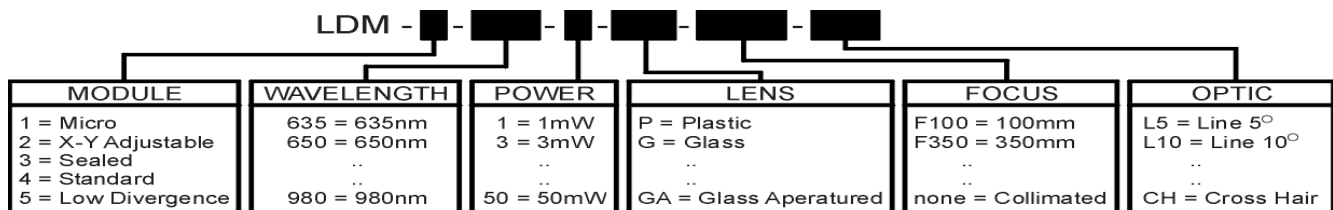


| | | |
|----------------------------------|-------------------------|----------------------------|
| Physical Dimensions | 11mm diameter x 37.0mm | |
| Operating Voltage | 3 – 6 VDC | |
| Typical Operating Current | Laser Power (mW) | Current (mA) |
| | 1-4 | <80 |
| | 5-15 | <120 |
| Power Stability (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 Line Generator Options

| Part Number | Line Generator Fan Angle |
|-------------|---|
| L5 | 5 degrees |
| L8 | 8 degrees |
| L15 | 15 degrees |
| L30 | 30 degrees |
| L45 | 45 degrees |
| L60 | 60 degrees |
| L70 | 70 degrees |
| L90 | 90 degrees |
| CH10 | Cross Hair Generator 10 degrees fan angle |

Determining Laser Specifications from part number



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