

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.

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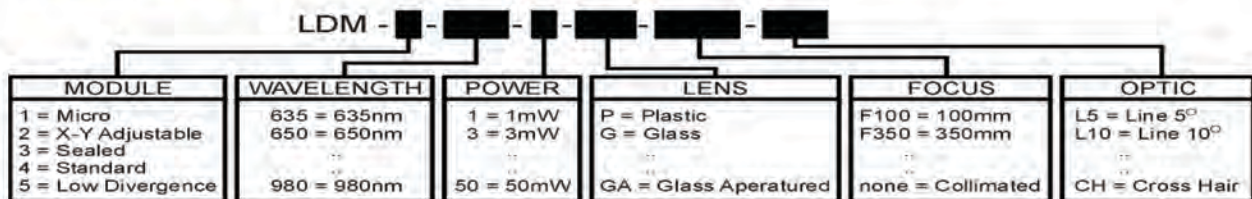
Physical Dimensions	10mm x 12mm x 13mm	
Operating Voltage	3 – 6 VDC	
Typical Operating Current	Laser Power (mW)	Current (mA)
	1-4	<45
	5-50	<120
Power Stability (25deg C)	2hr, <1%	
Beam Pointing Stability	<50urad	
Spectral Linewidth	<0.5nm typical	
External TTL Modulation	Standard LDM-4	With Pulsing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



Distributed By ...

MARWELL

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