

# LDM-4 Standard Module



## Features

- Compact size (11mm dia. x 25mm long)
- Slow start, reverse polarity and over voltage protection
- Small focal spots down to 10 microns
- Available with range of line generators both Gaussian and Uniform Intensity
- Cost effective

Available Wavelengths & Powers	Wavelength (nm)	Power (mW)
	635nm	0.5 - 25mW
	650nm	0.5 - 40mW
	670nm	0.5 - 8mW
	780nm	1 - 50mW
	808nm	1 – 400mW (requires external driver)
	830nm	5 - 40mW
	840nm	0.5 - 8mW
	850nm	0.5 – 8mW
	905nm	10 – 25mW
Beam Size at output	Apertured	3mm x 2mm
	Non-aperture – Glass	6mm x 2mm
	Non-apertured - Plastic	5mm x 2mm
Typical Achievable focal spot sizes (1/e2) (spot circularity of measurements (0.95 typical))	Focus Distance (mm)	Spot Size (um) Apertured / Non-apertured
	25	15 / 18
	50	27 / 34
	75	42 / 58
	150	85 / 115
	200	117 / 135
Typical Achievable Line Thicknesses (1/e2) (when used with one of our line generators)	Focus Distance (mm)	Line Thickness (um)
	25	12
	50	25
	75	40
	150	80
	200	110
Beam Divergence	0.75 mrad	
Mechanical / Optical Alignment	Standard Fixed Focus	< +/- 10mm @ 3m
	Special Fixed Focus	< +/- 5mm @ 3m

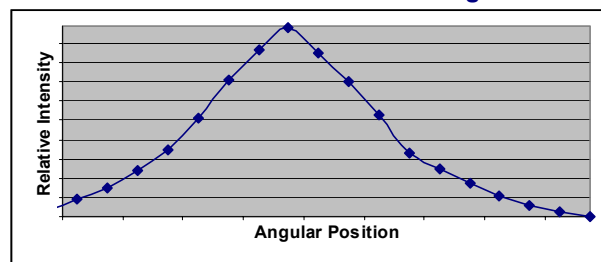
This product is registered with the FDA in accordance with 21 CFR 1040.10(a)(3)(I) and is compliant with European, and Australia/New Zealand laser safety standards 73/23/EEC - 98/37/EG, 89/336/EEC, EN 50081-1, EN-31252, EN-31252, EN 55022, EN 60825-1 and AS/NZS 2211:1997. The complete laser product manufacturer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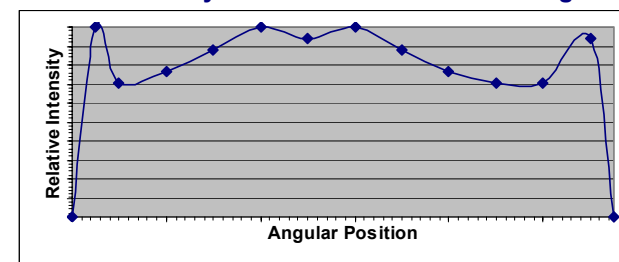


<b>Physical Dimensions</b>	11mm diameter x 25.4mm	
<b>Operating Voltage</b>	3 – 6 VDC	
<b>Typical Operating Current</b>	<b>Laser Power (mW)</b>	<b>Current (mA)</b>
	1-4	<45
	5-8	<80
	15-50	<120mA
<b>Power Stability (25deg C)</b>	2hr, <1%	
<b>Beam Pointing Stability</b>	<50urad	
<b>Spectral Linewidth</b>	<0.5nm typical	
<b>External TTL Modulation</b>	<b>Standard LDM-4</b>	<b>With Pulsing Option</b>
	1kHz	500kHz

**Gaussian Line Generator Profile 60 degrees**



**Uniform Intensity Line Generator Profile 60 degrees**



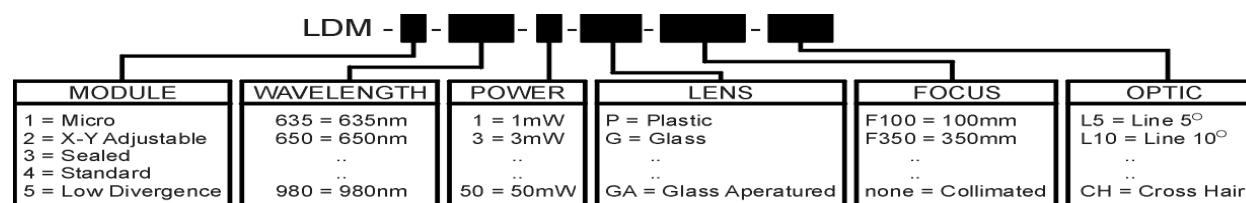
**Standard Gaussian Line Generator Options**

Part Number	Line Generator Fan Angle
L5	5 degrees
L8	8 degrees
L15	15 degrees
L40	40 degrees
L45	45 degrees
L60	60 degrees
L70	70 degrees
L90	90 degrees

**Standard Uniform Intensity Line Generators**

Part Number	Line Generator Fan Angle
UL60	60 degrees
UL90	90 degrees

**Determining Laser Specifications from part number**



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