

LDM-5 Low Divergence Module



Features

- Compact size (11 mm dia. x 37 mm 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)
	635 nm	0.5 - 10 mW
	650 nm	0.5 - 15 mW
	670 nm	0.5 - 3 mW
	780 nm	1 - 15 mW
	808 nm	1 - 10 mW
	830 nm	3 - 12 mW
	840 nm	0.5 - 3 mW
	850 nm	0.5 - 3 mW
	905 nm	0.5 - 10 mW
Beam Size / shape at output	4.5 mm diameter – circularity > 0.95	
Typical Achievable focal spot sizes (1/e²) (spot circularity of measurements (0.95 typical))	Focus Distance (mm)	Spot Size (um)
	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 (um)
	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 < +/- 15 mm @ 3 m	

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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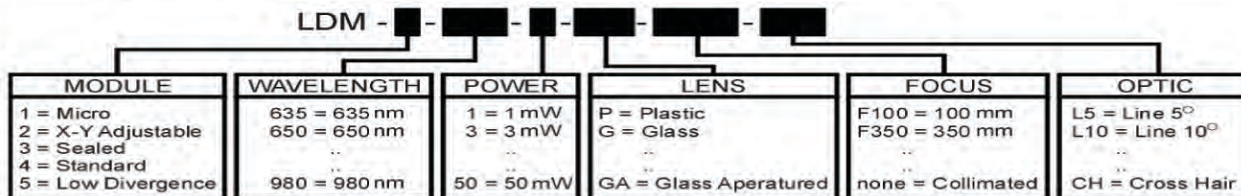


Physical Dimensions	11 mm diameter x 37.0 mm	
Operating Voltage	3 – 6 VDC	
Typical Operating Current	Laser Power (mW)	Current (mA)
	1-4	<80
	5-15	<120
Power Stability (25deg C)	2 hr, <1%	
Beam Pointing Stability	<50 urad	
Spectral Linewidth	<0.5 nm typical	
External TTL Modulation	Standard LDM-4	With Pulsing Option
	1 kHz	500 kHz

Standard Line Generator Options

Part Number	Line Generator Fan Angle
L5	4 degr
L8	8 degr
L15	15 degr
L40	40 degr
L45	45 degr
L60	60 degr
L70	70 degr
L90	90 degr
CH10	Cross Hair Generator 10 degr fan angle

Determining Laser Specifications from part number



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