

Versatile Line Laser

LLM115/635



The LLM line laser is a self-contained OEM laser diode module emitting a bright line pattern. It is of high visibility and can be seen in most lighting conditions. It is generally used where alignment by eye is required but is also suitable for use with camera systems.

It is designed for industrial applications and offers superior ruggedness and miniature size (11mm diameter).

The isolated body of this laser facilitates operation from a variety of power supplies.

The line laser is available with a choice of powers. The LLM115/635/1 laser is classified as a Class 2 laser, widely accepted as safe under all conditions. The LLM115/635/3 provides greater visibility for difficult lighting or target situations.

Features

- Rugged Construction
- 11mm Diameter
- User Adjustable Focussing Lens
- Low Voltage DC Operation
- Reverse Polarity Protection
- Compliant with IEC60825

▪ Applications

- Object Positioning
- Metrology
- Quality Control
- Robot Control
- Edge Detection
- Analysis

Series Specifications	LLM115/___/___	
Optical	635/1	635/3
Output Power (mW +/- 10%)	0.9	3
Laser Classification	2	3R
Power Stability (%)	2	
Wavelength (nm)	635	
Wavelength vsTemp (nm/°C)	0.2	
Focus Range (mm)	30 to ∞	
Beam Size at Aperture (mm)	4 x 2	
Line width at Nearest Focus (µm)	< 50	
Beam Position (mrad)	< 25	
Line fan angle (full angle)	30°	
Pointing Stability (mrad)	< 0.1	
Electrical		
Supply Voltage – Red Lead (V)	+3 to +6	
Supply Voltage – Black Lead (V)	0	
Operating Current (mA)	40	50
Length (mm)	37	
Diameter (mm)	11	
Mass (g)	20	
Supply Lead Length (mm)	200	
Environmental		
Operating Temperature (°C)	-10 to +40	
Storage Temperature (°C)	-40 to +80	
Operating Humidity (%rh)	90 non condensing	
MTTF at 25 °C (x 1,000 hours)	20	
<i>Typical values quoted unless otherwise stated. Global reserves the right to modify specifications without notice.</i>		

Options

- Other Wavelengths
- Wavelength Selection
- Higher Output Powers
- Customer Specific Power Settings
- Customer Specific Packaging

Related Products

- Line Generators
- Cross Generators
- Customer Specific Pattern Generators

Other Products & Services

- Applications Consultancy
- Product and Technical Development
- Lenses and Mirrors



Class 3R label



Class 3 label

For pricing or further information please contact your local distributor.

Contact Global Laser

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