

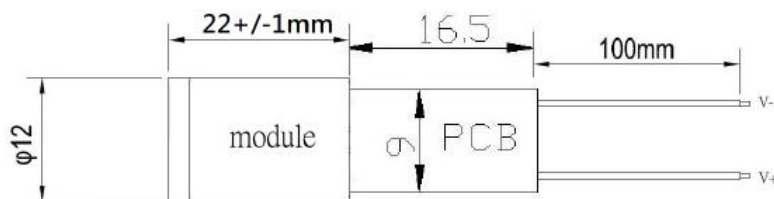
LASERMATE GROUP, INC.

THE FRIEND OF LASERS

Specifications of Class 1 850nm DOE Laser Diode Modules as Structured Light Projectors

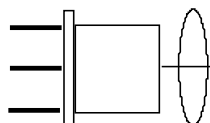
Model No.	GMP850LF5R10K8	GMP850LF5R30K8
Wavelength @ 25 °C	850nm +/-10nm	
Laser driver circuit design	APC circuit with limited current protection	
Optical output power*	0.61mW ~ 0.41mW	
Laser class	1	
Focus	Fixed	
Number of DOE random dots	10K Random dots	30K Random dots
DOE Field of View (FOV)	80° × 64.4° (H x V)	
Area of FOV at 100 cm distance	167.82 cm x 125.95 cm	
Operating voltage	3 to 5V DC	
Operation current @ 25 °C	≤265mA	
Operating temperature	-10 °C to 60 °C	
Storage temperature	-40 °C to 85 °C	
Housing	Black housing body: insulated; Brass front cap: positive	
MTTF of laser diode	>20,000 hours at 60 °C	
Dimensions	Housing: Ø12mm x L. 22+/-1mm; Driver PCB: L. 16.5mm x W. 9 mm	

Mechanical outline (Unit: mm):



Notes:

- * The GMP- series DOE laser modules are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- * Optical output power is measured by a 7mm diameter detector at 10cm distance.
- * Additional heat sink or cooling device may be needed if the laser module is operated continuously for a period of time.
- * Specifications are subject to change without notice.

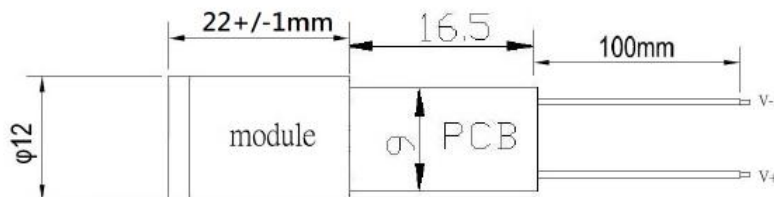


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Specifications of Class 1 850nm DOE Laser Diode Modules as Structured Light Projectors

Model No.	GMP850HF5R10K5	GMP850HF5R30K5
Wavelength @ 25 °C	850nm +/-10nm	
Laser driver circuit design	APC circuit with limited current protection	
Optical output power*	0.71mW ~ 0.61mW	
Laser class	1	
Focus	Fixed	
Number of DOE random dots	10K Random dots	30K Random dots
DOE Field of View (FOV)	59° × 48° (H x V)	
Area of FOV at 100 cm distance	113.15 cm x 89.05 cm	
Operating voltage	3 to 5V DC	
Operation current @ 25 °C	≤265mA	
Operating temperature	-10 °C to 60 °C	
Storage temperature	-40 °C to 85 °C	
Housing	Black housing body: insulated; Brass front cap: positive	
MTTF of laser diode	>20,000 hours at 60 °C	
Dimensions	Housing: Ø12mm x L. 22+/-1mm; Driver PCB: L. 16.5mm x W. 9 mm	

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