



GMP635-L100 Series – 635nm Line Generating Red Laser Diode Modules *With 100-Degree Line Optics, APC Circuit, and Compact Design*



Overview

The Lasermate GMP635-L100 series red line generating laser diode module with wavelength at 635nm is designed for OEM applications with line profile and miniature size. The laser module features 100-degree line generating optics.

Features

- 635nm diode laser module
- Automatic Power Control (APC) circuit
- Compact size
- Output power stability 5%
- With ~100-degree line generating lens

Product Overview

The following table shows the list of available part numbers, wavelength, optical output power, laser class, operating voltage, operating current, and operating temperature for GMP635-L100 series laser modules.

Part Number	Wavelength (nm)	Optical output power (mW)	Laser class	Operating voltage (V DC)	Operating Current typical (mA)	Operating temperature (°C)
GMP635-1F3-L100	635	0.5-0.99	II	3	40	-10 to +40
GMP635-3F3-L100	635	2.1-3	IIIa	3	40	-10 to +40

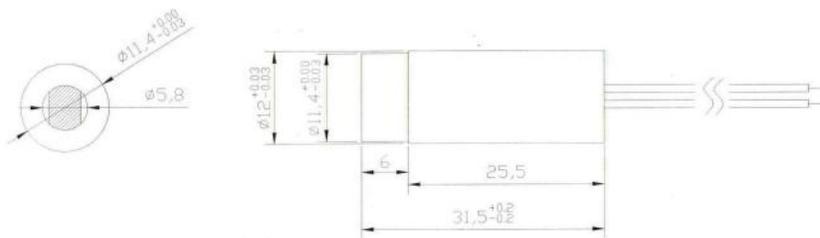
Specifications of GMP635-L100 Series 635nm Line Generating Laser Diode Modules

Model Number	GMP635-YF3-L100	
Wavelength	635+/-10 nm	
Output power (mW) @ 25 °C	0.5-0.99 (Y=1)	2.1-3 (Y=3)
Laser Class	Class II	Class IIIa
Operating Current @ 25 °C	40mA typical	
Operating Voltage	3V DC	
Circuit Design	APC (Automatic Power Control)	
Operation Mode	CW	
Full Fan Angle of Line Optics	~100 degree	
Stability*	≤±5% @ constant temperature	
Connector**	Black wire (-); red wire & brass case (+)	
Operating Temperature	-10 to 40°C	
Storage Temperature	-10 to 70°C	
Dimensions (LxWxH)	Dia. 12mm x L.31.5+/-0.5 mm (brass housing)	

Notes:

1. Additional heat sink or cooling fan may be needed to stabilize the output power of laser module.
2. Brass case is positive.

Mechanical Outline (unit: mm)



Additional Notes

- The GMP635-L100 series 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 FDA 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.
- Specifications are subject to change without notice.



Lasermate Group, Inc.
 19608 Camino De Rosa
 Walnut, CA 91789 USA
 Tel: (909)718-0999
 Fax: (909)718-0998
sales@lasermate.com
www.lasermate.com