



GMF1064 Series – 1064nm Infrared DPSS Laser Modules with APC Circuit and TTL Modulation

Fixed Focus, PCB Driver in Box, Stable IR Output



Description

The Lasermate GMF1064 series laser modules are 1064nm infrared diode-pumped solid-state laser modules with features of Automatic Power Control (APC) circuit design and PCB driver in box with switch.

Features

- 1064nm infrared DPSS laser module
- Automatic Power Control (APC) circuit design
- Low cost
- Fixed focus
- Output power stability 5%

Applications

- Light source
- Sensing

Product Overview

The following table shows the list of available part numbers, wavelength, optical output power, operating current, linear polarization and AC adapter for GMF1064 series laser modules.

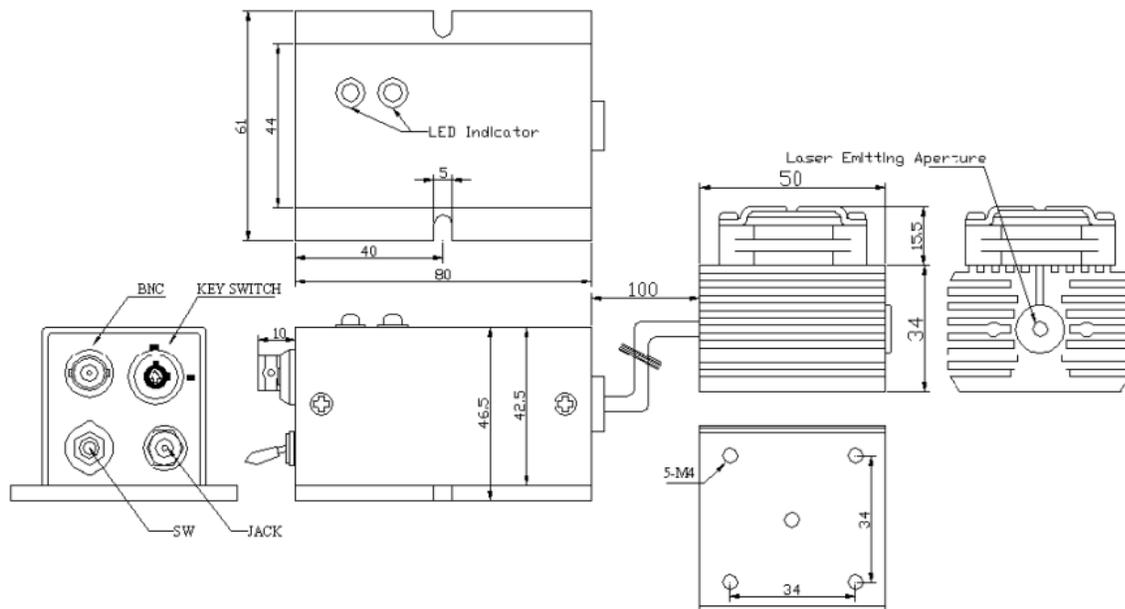
Part Number	Wavelength (nm)	Output power (mW)	Operating Current (A)	Linear Polarization	AC Adapter Included
GMF1064-SFBC2	1064	0.1-0.39	<0.35	100:1	Yes
GMF1064-1FBC2	1064	0.4-0.9	<0.35	100:1	Yes
GMF1064-5FBC2	1064	3-5	<0.35	100:1	Yes
GMF1064-10FBC2	1064	7-10	<0.35	100:1	Yes
GMF1064-20FBC2	1064	16-20	<0.35	100:1	Yes

Specifications of GMF1064 Series 1064nm Infrared DPSS Laser Modules

Wavelength	1064nm				
Mode	TEM ₀₀				
Output Power @ 25 °C	0.1-0.39 mW	0.4-0.9 mW	3-5 mW	7-10 mW	16-20 mW
Operating Current (A)	<0.35				
PCB Driver	PCB driver in box with switch				
Focus	Fixed				
Circuit Design	APC				
Operation Mode	CW with TTL capable and up to 1KHz				
M ²	< 2				
Linewidth	< 0.1 nm				
Linear Polarization	About 100:1				
Beam Divergence	<1.4 mrad				
Stability	±5% @ 1hr, 25±3 °C				
AC Adapter	9V Included				
Connector	DC-Jack for CW & BNC for TTL				
Storage Temperature	10 to 50 °C				
Optimum Operating Temperature	15 to 35 °C				
Dimensions (LxWxH)	Refer to the mechanical outline below.				

Mechanical Outline (unit: mm)

Subassembly PCB in Box with Switch



Additional Notes

- The GMF1064 series diode pumped solid stated infrared laser modules, which use laser diode pumped Nd:YVO₄ crystal coupled with KTP as a frequency doubler, 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