



GMP1064 Series – 1064nm Infrared Dot DPSS Laser Modules (Dia. 12mm)



Overview

The Lasermate GMP1064 series consists of 1064nm infrared diode-pumped solid-state (DPSS) laser modules housed in a compact 12mm diameter cylindrical package. Available in various output power levels, these modules feature a fixed focus design and operate with low current consumption, making them ideal for applications requiring stable infrared light sources.

Features

- 1064nm infrared DPSS laser module
- Low operating current
- Compact 12mm diameter cylindrical package
- Fixed focus for consistent beam quality

Applications

- Light source
- Sensing

Product Overview

The following table shows the list of available part numbers, wavelength, output power, operating current, and operating voltage for GMP1064 series laser modules.

Part Number	Wavelength (nm)	Output power (mW)	Operating Current (mA)	Operating Voltage (VDC)
GMP1064-SF3-CP	1064	0.1-0.39	<350	3
GMP1064-1F3-CP	1064	0.4-0.9	<350	3
GMP1064-5F3-CP	1064	3-5	<350	3
GMP1064-10F3-CP	1064	7-10	<350	3
GMP1064-20F3-CP	1064	16-20	<350	3

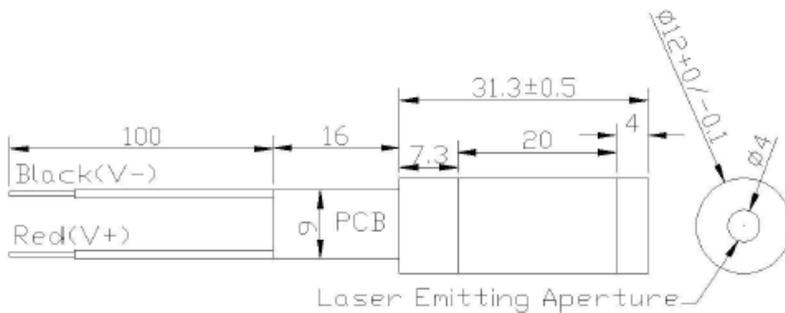
Specifications of GMP1064 Series 1064nm Infrared DPSS Laser Modules

Wavelength	1064nm				
Operating Mode	CW				
Beam Mode	TEM ₀₀				
Output power	0.1-0.39 mW	0.4-0.9 mW	3-5 mW	7-10 mW	16-20 mW
Operating Current	<350mA				
Operating Voltage	3V DC				
Beam Focus	Pre-fixed focus				
Connector	Standard: Black wire (-); red wire & brass case (+)				
Optimum Operating Temperature	10-40°C				
Warm-up Time	<3 sec				
Housing	Brass				
Dimensions (LxW)	Dia. 12mm x L. 31.3+/-0.5 mm (brass housing), W. 9 x L. 16 mm (driver circuit board)				

Notes:

1. Additional heat sink or cooling fan may be needed to stabilize the output power of laser module if the laser module is operated continuously in a period of time.

Mechanical Outline (unit: mm)



Additional Notes

- The GMP1064 series diode pumped solid stated 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.



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