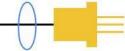


Lasermate Group, Inc.

The Friend of Lasers



GMP532-L45 Series 532nm Line Generating Green DPSS Laser Modules

With 45-Degree Line Generating Optics and APC Circuit Design

Key Features

- 532nm green DPSS laser module
- Automatic Power Control (APC) circuit with limited current to protect module
- Low operating current
- Compact size
- Output power stability 5%
- With ~45-degree line generating lens



Specifications of GMP532-L45 Series 532nm Green DPSS Laser Modules with 45° Line Generating Optics

GMP532-XF3-CP-L45							
532 nm							
TEM ₀₀							
0.5-0.99 (X=1)	3-4.99 (X=5)	7-10 (X=10)	16-20 (X=20)				
Class II	Class IIIa	Class IIIb	Class IIIb				
<0.30							
3V DC							
APC with limited current, CW operation mode							
≤±5% @ 25 ± 3 °C							
~45 degree							
90cm @ 1m; 270cm @3m							
<2mm @ 1m; <3mm @3m							
Standard: Black wire (-); red wire & brass case (+)							
10 cm							
10 - 50 °C							
22 - 28 °C							
>3,000 hr							
Dia. 12mm x L. 35+/-1mm (green laser head), 9mm x 16.5mm (driver circuit board)							
	532 nm TEM₀₀ 0.5-0.99 (X=1) Class II <0.30 3V DC APC with limited c ≤±5% @ 25 ± 3 °C ~45 degree 90cm @ 1m; 270cr <2mm @ 1m; <3mr Standard: Black wir 10 cm 10 - 50 °C 22 - 28 °C >3,000 hr	532 nm TEM₀₀ 0.5-0.99 (X=1) 3-4.99 (X=5) Class II Class IIIa <0.30 3V DC APC with limited current, CW operation ≤±5% @ 25 ± 3 °C ~45 degree 90cm @ 1m; 270cm @3m <2mm @ 1m; <3mm @3m Standard: Black wire (-); red wire & bras 10 cm 10 - 50 °C 22 - 28 °C >3,000 hr	532 nm TEM₀₀ 0.5-0.99 (X=1)				

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.
- 2. The expected lifetime of green laser module is based on the MTTF (Mean Time To Failure) rating of 808nm laser diode used in the green laser module.

Ordering Information

Part Number	Wavelength	Output power	Laser	Operating	Operating	Operating
	(nm)	(mW)	class	Current (A)	Voltage (V	Temperature (°C)
					DC)	
GMP532-1F3-CP-L45	532	0.5-0.99	П	<0.30	3	22-28
GMP532-5F3-CP-L45	532	3-4.99	Illa	<0.30	3	22-28
GMP532-10F3-CP-L45	532	7-10	IIIb	<0.30	3	22-28
GMP532-20F3-CP-L45	532	16-20	IIIb	<0.30	3	22-28

Additional Notes

- The GMP532-L45 series diode pumped solid stated green 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.

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