



## **GMP532-A Series – 532nm Green DPSS Laser Modules** ***Adjustable Focus, APC Circuit, 3VDC, 13mm Diameter***



### **Overview**

The Lasermate GMP532-A series consists of 532nm green diode-pumped solid-state (DPSS) laser modules in a compact 13mm diameter cylindrical package. Designed with an Automatic Power Control (APC) circuit to protect the module by limiting current, these modules offer adjustable focus and various output power levels. Its low operating current and stable output power make it ideal for precision applications

### **Features**

- 532nm green DPSS laser module
- Automatic Power Control (APC) circuit with limited current to protect module
- Adjustable focus
- Low operating current
- Compact 13mm diameter package
- Output power stability 5%

### **Applications**

- Pointing
- Leveling
- Sensing

## 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 GMP532-A series laser modules.

Part Number	Wavelength (nm)	Output power (mW)	Laser class	Operating Current (A)	Operating Voltage (V DC)	Operating Temperature (°C)
GMP532-1A3-CP	532	0.5-0.99	II	<0.30	3	20-30
GMP532-5A3-CP	532	3-4.99	IIIa	<0.30	3	20-30
GMP532-10A3-CP	532	7-10	IIIb	<0.30	3	20-30
GMP532-20A3-CP	532	16-20	IIIb	<0.30	3	20-30

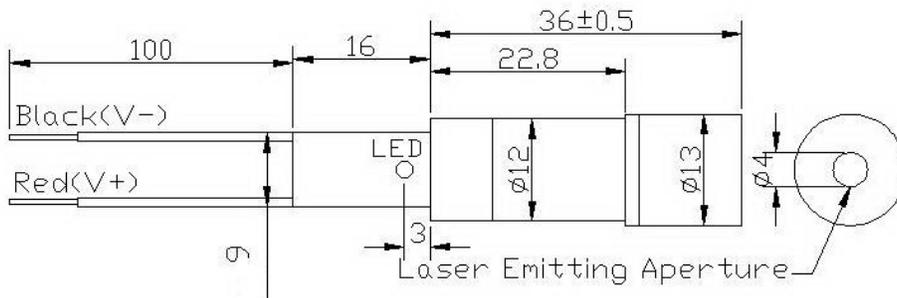
**Specifications of GMP532-A Series 532nm Green DPSS Laser Modules**

Wavelength	532 nm			
Beam Mode	TEM <sub>00</sub>			
Output power @ 3VDC, 25 °C	0.5-0.99 mW	3-4.99 mW	7-10 mW	16-20 mW
Laser Class	II	IIIa	IIIb	IIIb
Operating Current	<0.30 A			
Operating Voltage	3V DC			
Circuit Design	APC with limited current			
Operation Mode	CW			
Focus	Adjustable			
Beam Divergence	<1.2 mrad			
Stability	≤±5% @ constant temperature			
Connector	Black (-); red wire & brass case (+)			
Storage Temperature	10-50 °C			
Optimum Operating Temperature	20-30 °C			
Dimensions (LxWxH)	Dia. 13mm x L. 36+/-0.5 mm (green laser head) 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.
2. Brass case is positive.

**Mechanical Outline (unit: mm)**



**Additional Notes**

- The GMP532-A series diode pumped solid stated green laser modules, which use laser diode pumped Nd:YVO<sub>4</sub> 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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