



515nm Pre-Aligned Green Dot Laser Diode Modules, ± 0.5 Degree Beam Centering for Alignment Application

PLA515 Series



Overview

The Lasermate PLA515 series laser diode module is a precision laser module at 515nm wavelength designed for OEM applications by which the output laser beam is pre-aligned to the center axial of the barrel of laser module. The precision laser is suitable for OEM assembly, and alignment and aiming applications.

Features

- Typical 515nm green laser module
- Housing diameter 10.5mm
- Output beam is aligned to the center-line of the module
- Tolerance of $\theta/2$ is $\pm 0.5^\circ$
- No user's adjustment required

Applications

- Alignment
- Aiming

Product Overview

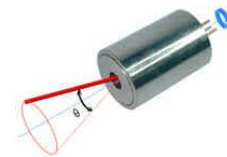
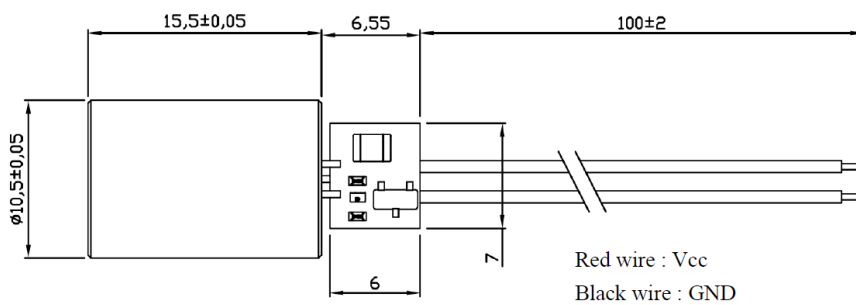
Part Number	Wavelength (nm)	Output power (mW)	Laser class	Operating voltage (V DC)	Operating Current (mA)	Operating temperature ($^\circ\text{C}$)
PLA5155F3CP-BW3	515	<5	IIIa	3-6	<150	-5 to +40

Specifications of PLA515 Series 515nm Pre-Aligned Laser Diode Modules

Absolute Maximum Ratings			
Parameter	Symbol	Rating	Unit
Power supply voltage	Vcc	6	V
Laser module optical output power	Po	<5	mW
Operation temperature	Topr	-5 to 40	°C
Storage temperature	Tstg	-20 to 60	°C

Electrical-Optical Characteristics						
Parameter	Symbol	Min.	Typ.	Max	Unit	Conditions
Wavelength	λ	510	520	530	nm	Po=3mW
Output power	Pout	2	-	4.5	mW	
Operation current	Iop	-	-	150	mA	Po=3mW, Vcc=3V
Operation voltage	Vop	3		6	Volt	
Laser beam spot size @ 10m				<15mm		
Divergence angle				1.2mrad		
Coaxial precision				<0.5 degree		

Outline Dimensions of PLA515 Series 515nm Pre-Aligned Laser Diode Modules (unit: mm)



Additional Notes

- The PLA515 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 the appropriate 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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