## Diode Lasers PLM Series

## COMPACT POWER STABILIZED SINGLE-MODE SERIES—Blue & Green Wavelengths



## **KEY PERFORMANCE FEATURES**

- Ultra Stable Output Power
- · Compact Single Box Design
- Low Power Consumption
- · Several Wavelengths Available
- Free-space or Fibered Outputs

## **APPLICATIONS**

- Raman Excitation Source
- Flow Cytometry
- Semiconductor Processing
- · Real-time Process Control
- Metrology

Center Wavelength (± 0.5nm)	405nm	488nm	520nm
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\*NOTE: Additional wavelengths available upon request

Powered by:



Operating Specifications	Units	405nm	488nm	520nm
Free-Space Output Power	mW	150	50	100
Fibered Output Power*	mW	_	_	15
Spectral Linewidth (Typical)	nm	1 to 2		
Wavelength Stability (Over 8 Hours)	nm	±1		
Optical Power Stability (Over 8 Hours)**	% pk-pk	<2		
Noise (10Hz - 100MHz)	% rms	0.2		
Adjustable Output Power	%		10 to 90	

<sup>\*</sup>See ordering information for options. Power value given for SMF version.

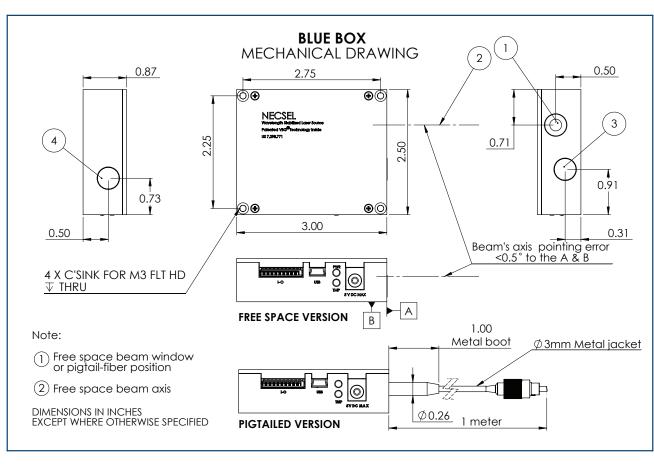
<sup>\*\*</sup>APC mode

Free Space Optical Specifications	Units	405nm	488nm	520nm
Beam Quality (m^2 Typical) - Vertical	-	1.2		
Beam Quality (m^2 Typical) - Horizontal	-		1.1	
Beam Size - Vertical	mm	1.2	1.8	1.8
Beam Size - Horizontal	mm	0.6	0.6	0.6
Beam Aspect Ratio	-	2	3	3
Beam Divergence - Vertical	mrad	0.8		
Beam Divergence - Horizontal	mrad	1.3		
Beam Pointing Stability (Over 8 Hours)	μrad	<50		
Beam Pointing Accuracy	deg	1		
Polarization Ratio	linear	100:1		

Electrical Specifications	Units	Value	
DC Input 1	_	0.5A @ 9V	
DC Input 2	_	2A @ 3.3V	
Warm-up Time (Typical)	sec	10	
Power Consumption (Typical/Max)	W	<12	
Interface - USB & 10-Pin I/O Connectors			

Environmental Specifications	Units	Value
Operating Case Temperature*	°C	-10 to 50
Humidity (Non-condensing)	%	5 to 95

<sup>\*</sup>Must be operated on a heat sink.



Weight = 134 grams Dimensions = 86 cm<sup>3</sup> (5.2 in<sup>3</sup>)

Part Number	Fiber Type	Wavelengths Available
PLM-XXX-SMF	3.5µm MFD (Mode Field Diameter)	520 nm
PLM-XXX-PMF	3.5µm MFD PANDA	520 nm
PLM-XXX-MMF	50, 62.5 & 105µm MMF (Multi Mode Fiber)	All
PLM-XXX-FS	(Free-space)	All

Part Number System: PLM - XXX - XXX

Specific Fiber Type or Free-space



