USHIO Applying Light to Life

Diode Lasers PLM Series

COMPACT POWER STABILIZED SINGLE-MODE SERIES—NIR Wavelengths

KEY PERFORMANCE FEATURES

- Ultra Stable Output Power
- Compact, Small Box Design
- Low Power Consumption
- Power Stabilized to <0.4%

APPLICATIONS

- Raman Excitation Source
- Flow Cytometry
- Semiconductor Processing
- Metrology

Center Wavelength (± 0.5nm)	785nm

*NOTE: Additional wavelengths available upon request

Powered by:

NECSEL

Operating Specifications	Units	785nm
Free-Space Output Power	mW	110
Fibered Output Power*	mW	45
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	%	5 to 100

*See ordering information for options. Power value given for SMF version.

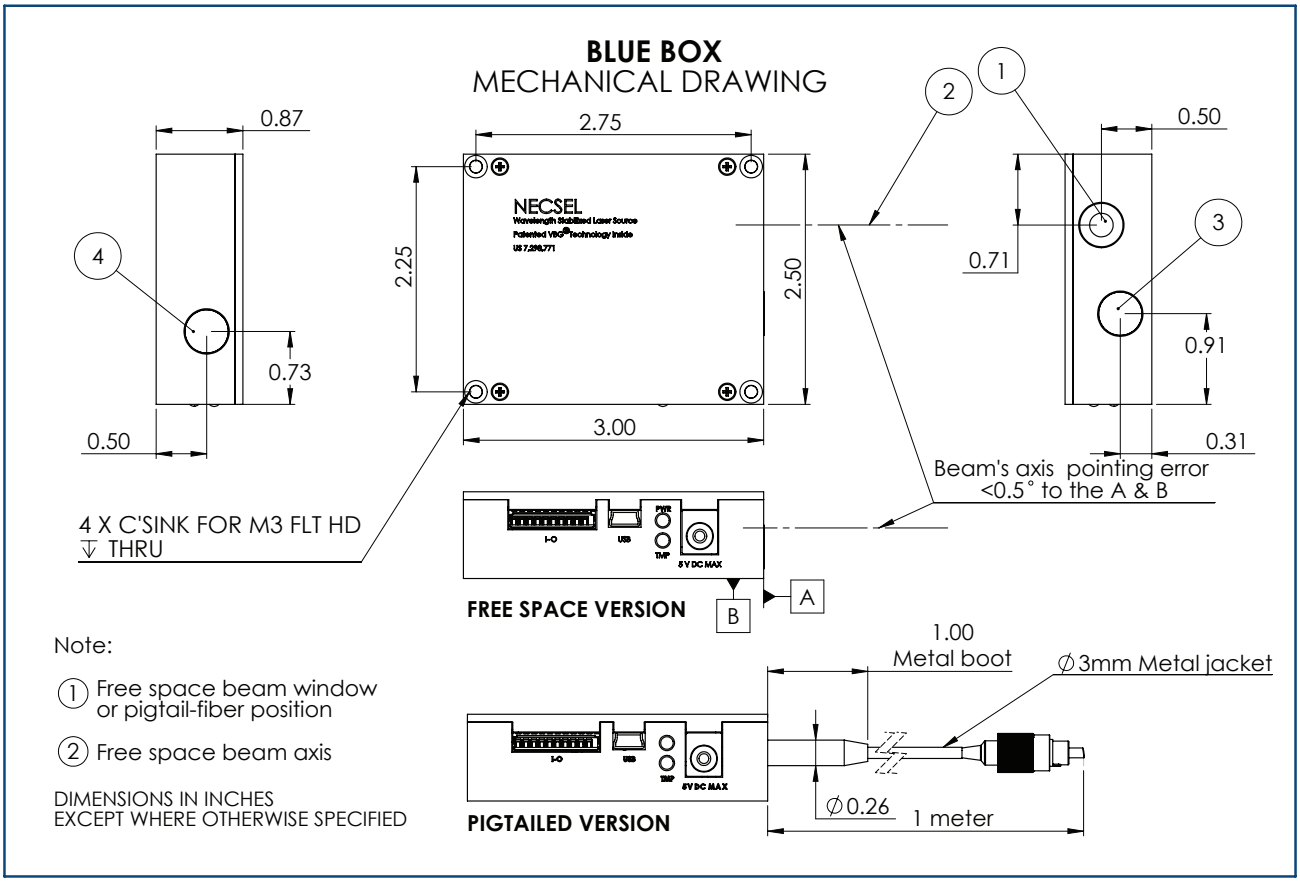
**APC mode

Free Space Optical Specifications	Units	660nm
Beam Quality (mˆ2 Typical) - Vertical	–	1.2
Beam Quality (mˆ2 Typical) - Horizontal	–	1.1
Beam Size - Vertical	mm	1.2
Beam Size - Horizontal	mm	0.6
Beam Aspect Ratio	–	2
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 @ 3V
Warm-up Time (Typical)	sec	10
Power Consumption (Typical/Max)	W	<12

Environmental Specifications	Units	Value
Operating Case Temperature*	°C	10 to 40
Humidity (Non-condensing)	%	5 to 95

Weight = 134 grams Dimensions = 86 cm³ (5.2 in³)



ORDERING INFORMATION

Part Number	Fiber Type	Wavelengths Available
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 Wavelength — *Fiber Type or Free-space*

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Refer to website for product availability, compliance, and regulations. Specifications may be subject to change without prior notice.

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