



Diode Lasers

SLM Series

SINGLE LONGITUDINAL MODE LASER SERIES

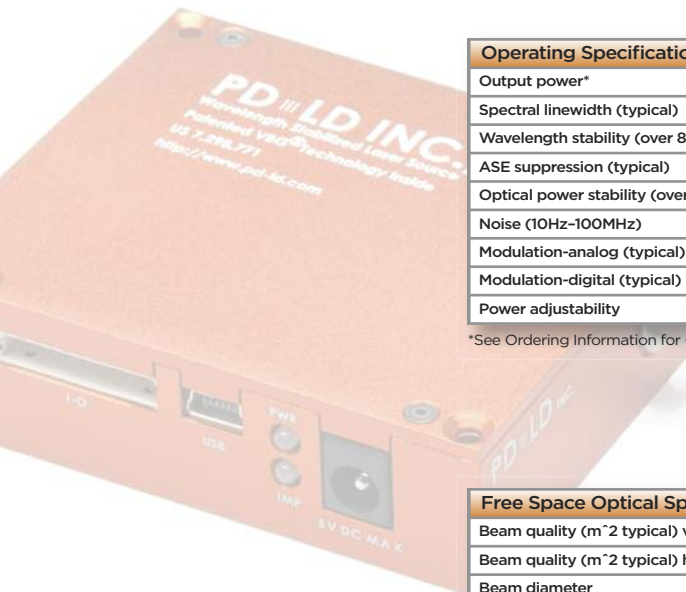


Key Performance Features	Applications
<ul style="list-style-type: none">• High Power Single Mode Performance• VBG Wavelength Stability• Ultra Stable Output Power• Fully Integrated OEM Solution• Very Low Power Consumption• Collimated or Fiber Coupled Output• User Selectable Control Options• Compact, One Box Design	<ul style="list-style-type: none">• Raman Spectroscopy• Flow Cytometry• Confocal Microscopy• Metrology• Fluorescence Excitation• Interferometry• Microlithography• HeNe Replacement

Center Wavelength (+/- 0.5 nm)	660	780	785
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	Units	Value
Operating Specifications		
Output power*	mW	40-100
Spectral linewidth (typical)	MHz	<50
Wavelength stability (over 8 hours)	pm	+/- 5
ASE suppression (typical)	dB	40
Optical power stability (over 8 hours)	% pk-pk	+/- 1
Noise (10Hz-100MHz)	% rms	0.2
Modulation-analog (typical)	TBD	
Modulation-digital (typical)	kHz	10
Power adjustability		50-100%

*See Ordering Information for Options

	Units	Value
Free Space Optical Specifications		
Beam quality (m ² typical) vertical		1.2
Beam quality (m ² typical) horizontal		1.1
Beam diameter	mm	1
Beam aspect ratio		1.5
Beam divergence—vertical	mrاد	0.8
Beam divergence—horizontal	mrاد	1.3
Beam pointing stability	μrad	<50
Polarization ratio	linear	100:1

	Units	Value
Electrical Specifications		
DC input (max)		2A @ 5V
Warm-up time (typical)	min	<5
Power consumption (typical/max)	W	5
Interface—USB & 10-pin I/O connectors		

	Units	Value
Electrical Specifications		
Case temperature*	°C	15-40
Humidity (non-condensing)	%	5-95

*Must be operated on a heat sink

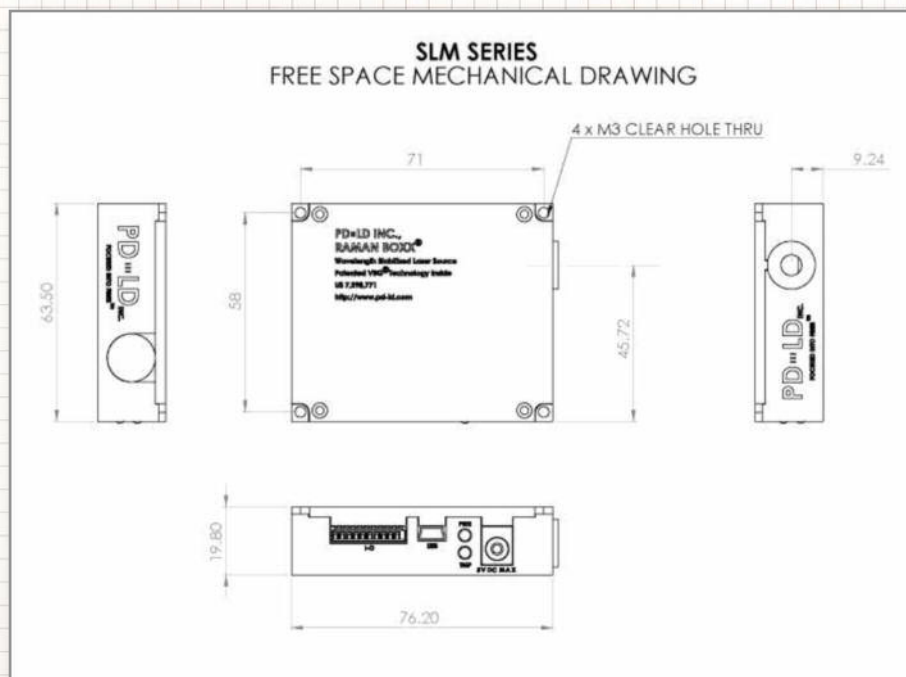
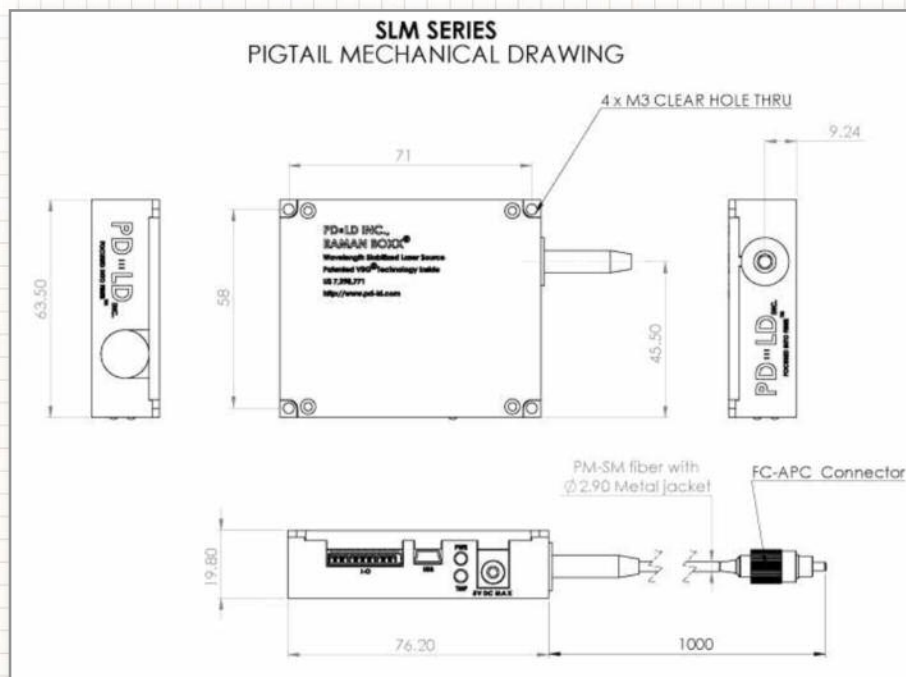


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Weight = 135 grams Dimensions = 86cm³ (5.25 in³)



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Ordering Information

Part Number	Fiber Type	Output Power mW
SLM-660.0-SMF	4.3 μ m MFD	> 40
SLM-660.0-PMF	4.3 μ m MFD PANDA	> 40
SLM-780.0-SMF	5.3 μ m MFD	> 40
SLM-780.0-PMF	5.3 μ m MFD PANDA	> 40
SLM-785.0-SMF	5.3 μ m MFD	> 40
SLM-785.0-PMF	5.3 μ m MFD PANDA	> 40
SLM-660.0-FS	(Free-space)	> 100
SLM-780.0-FS	(Free-space)	> 100
SLM-785.0-FS	(Free-space)	> 100

