



SLM Series

SINGLE LONGITUDINAL MODE LASER SERIES



Key Performance features	Applications
<ul style="list-style-type: none"> • High Power Single Mode Performance • Wavelength Stability Locked-on By VBG • Ultra Stable Output Power • Fully Integrated OEM Solution • Very Low Power Consumption • Multiple Output Formats • User Selectable Control Options • Available and Affordable Now 	<ul style="list-style-type: none"> • Raman Spectroscopy • Flow Cytometry • Confocal Microscopy • Metrology • Fluorescence Excitation • Interferometry • Microlithography • HeNe Alternative

STANDARD WAVELENGTH	632.8	660	780	785



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	Units	632.8	660	780	785
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Electrical Specifications					
DC input max		2A at 5V	2A at 5V	2A at 5V	2A at 5V
Warm-up time typical	sec	30	30	30	30
Power Consumption					
Typical	W	5	5	5	5
Max	W	8	8	8	8

Mechanical Specs					
Length x width x height	in	3 x 2.5 x 0.7	3 x 2.5 x 0.7	3 x 2.5 x 0.7	3 x 2.5 x 0.7
Weight	grams	135	135	135	135
Connector type		FCA/APC, other	FCA/APC, other	FCA/APC, other	FCA/ APC,

Operational conditions					
Case temperature (heatsink needed)					
Min	c	0	0	0	0
Max	c	40	40	40	40
Humidity (non-condensing)					
Min	%	5	5	5	5
Max	%	90	90	90	90
Communications		USB	USB	USB	USB
Power adjustability range		50% to 100%	50% to 100%	50% to 100%	50% to 100%



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Optical Specifications	Units	632.8	660	780	785
Output power					
Minimum	<i>mW</i>	30	80	80	90
Typical	<i>mW</i>	50	100	100	100
Mode		<i>Single</i>	<i>Longitudinal</i>	<i>mode</i>	
Center wavelength					
Minimum	<i>nm</i>	632.4	659.5	779.5	784.5
Typical	<i>nm</i>	632.8	660	780	785
Max	<i>nm</i>	633.2	660.5	780.5	785.5
Spectral line width (typical)	<i>MHz</i>	<50	<50	<50	<50
Wavelength stability (max)	<i>pm</i>	5	5	5	5
ASE suppression (typical)	<i>dB</i>	40	40	40	40
Optical power stability (typical)	<i>% pk-pk</i>	0.2	0.2	0.2	0.2
Noise (typical)	<i>% rms</i>	0.2	0.2	0.2	0.2
Modulation—analogue (typical)		<i>TBD</i>	<i>TBD</i>	<i>TBD</i>	<i>TBD</i>
Modulation—digital (typical)	<i>kHz</i>	10	10	10	10



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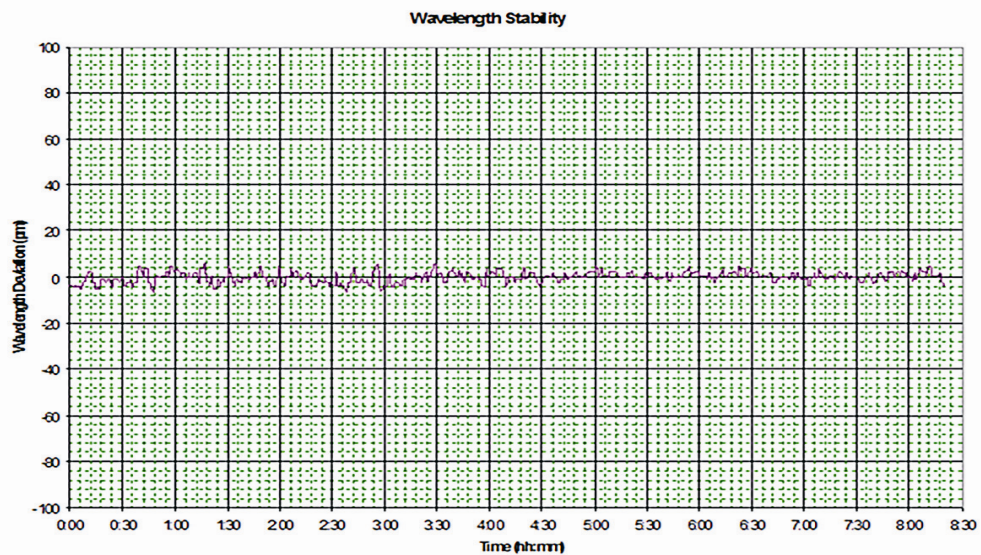
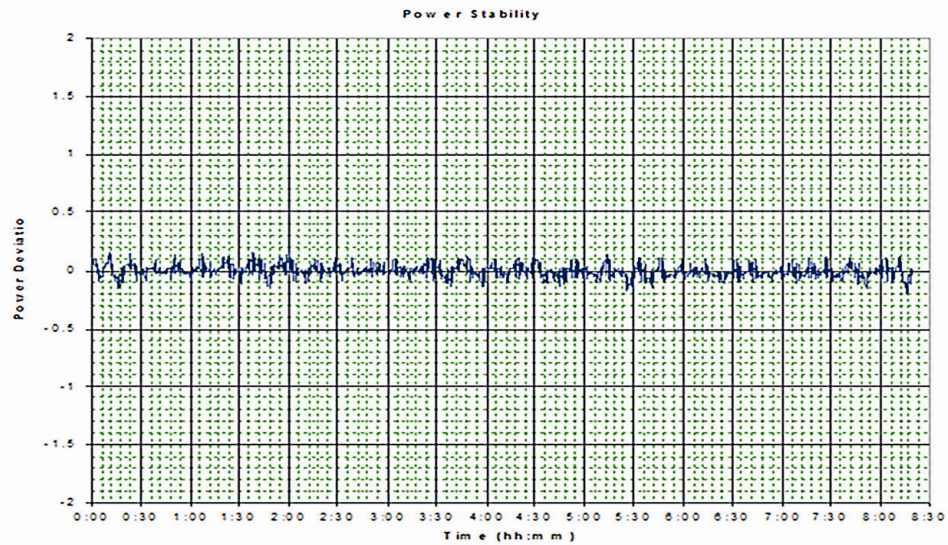
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Free Space Beam	Units	632.8	660	780	785
Beam quality (M²)					
Typical		1.2	1.2	1.2	1.2
Beam diameter					
Typical		1	1	1	1
Beam aspect ratio					
Typical		1.5	1.5	1.5	1.5
Max		2	2	2	2
Beam divergence - vertical (typical)	<i>Deg</i>	16	16	16	16
Beam divergence - horizontal (typical)	<i>Deg</i>	10	10	10	10
Beam pointing stability (typical)	<i>urad/C</i>	5	5	5	5
Polarization ratio (typical)	<i>linear</i>	100:01: 00	100:01: 00	100:01: 00	100:01: 00
Ordering information					
SLM-632.8					
SLM-660					
SLM-780					
SLM-785					



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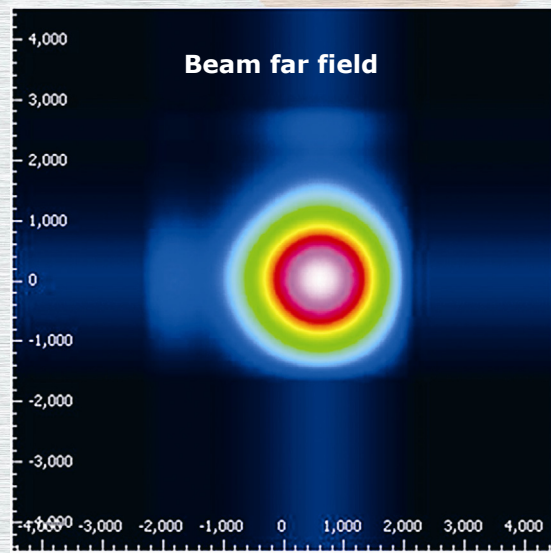
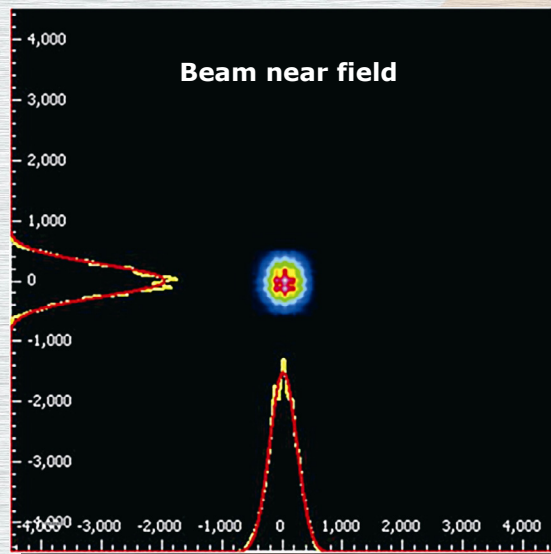
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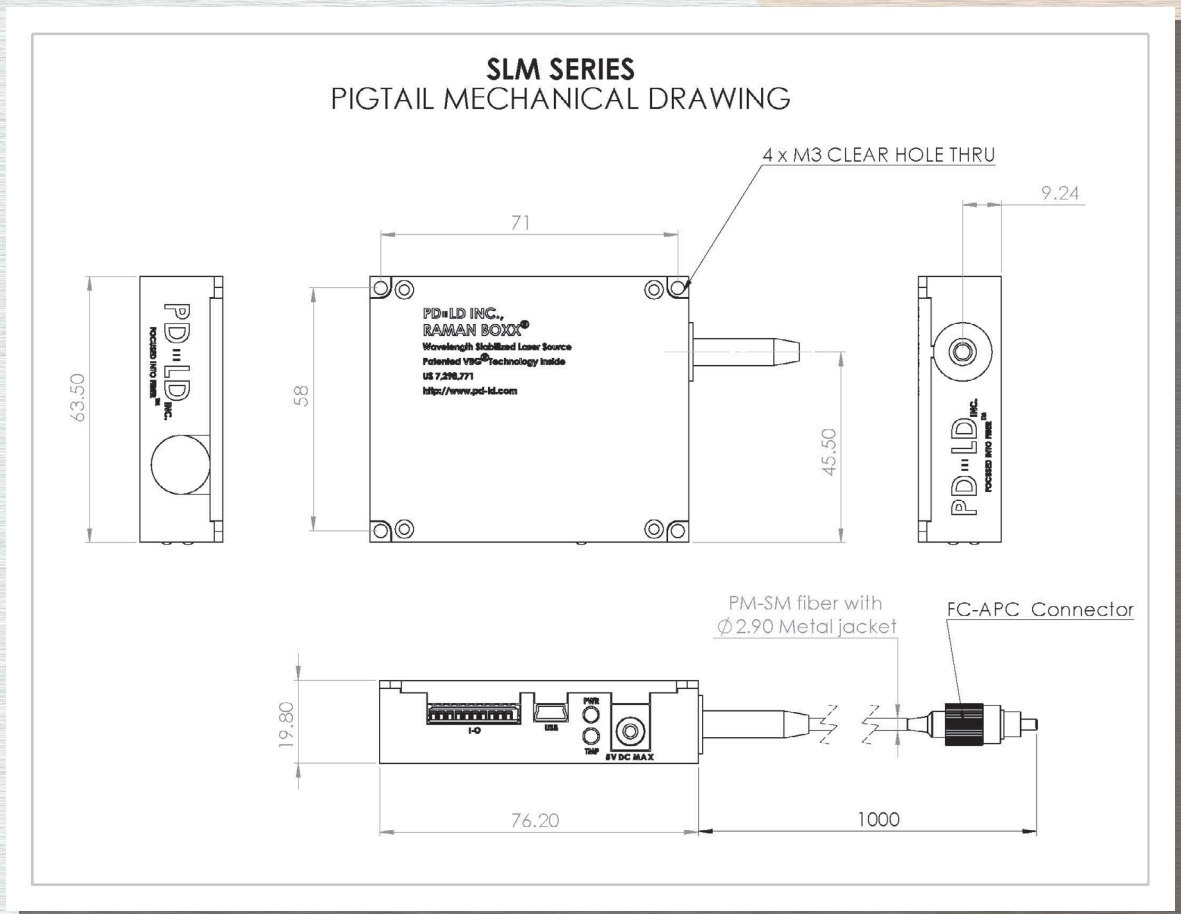
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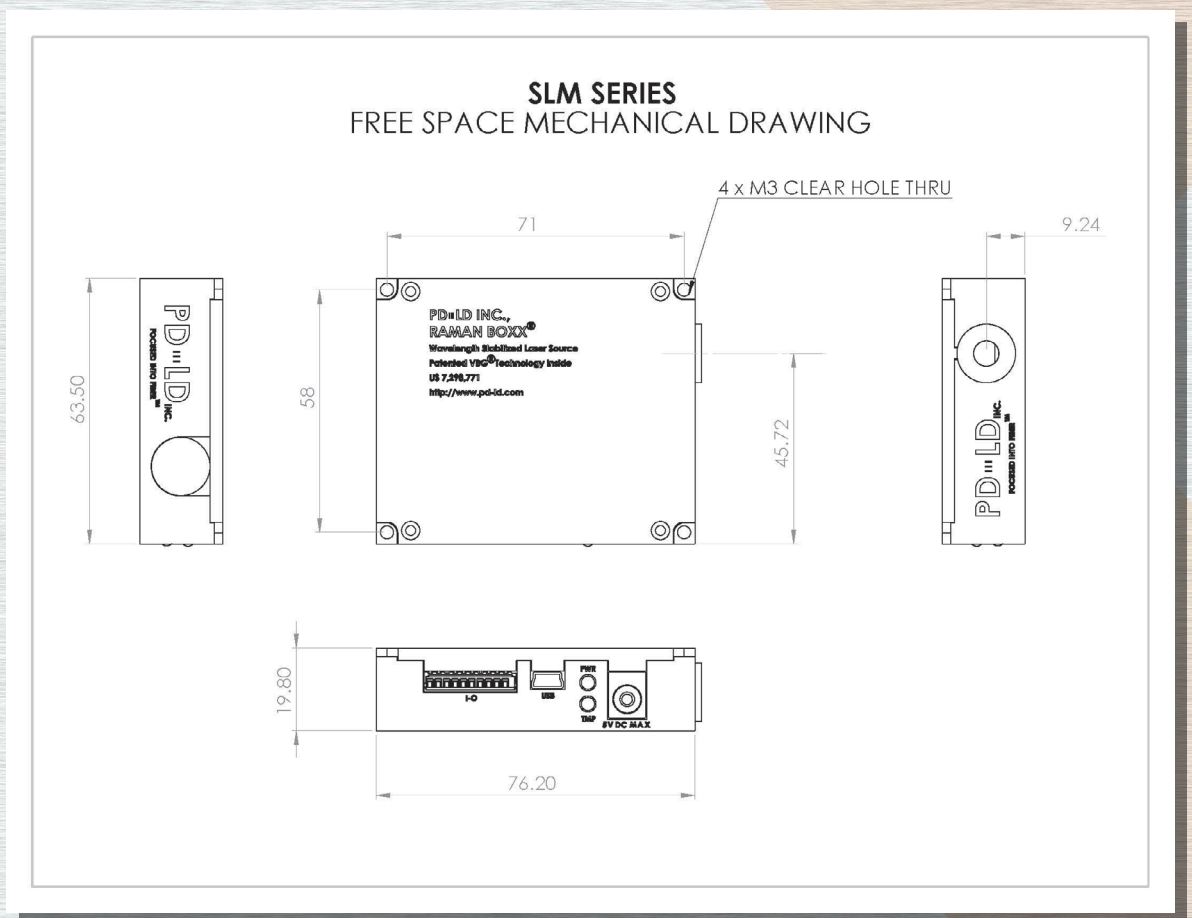
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