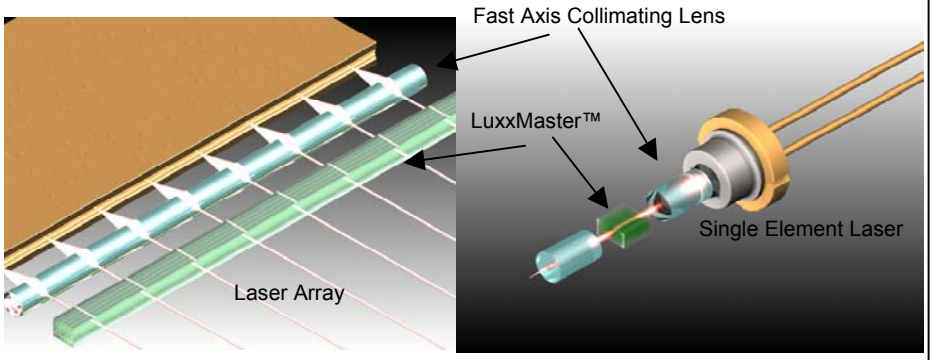
PD LD INC.
FOCUSED INTO FIBER™

LuxxMaster™ Wavelength Stabilizer Elements for High Power Lasers and Laser Arrays.

Based on proprietary volume Bragg grating™ technology for stabilizing and shaping the emission spectra of high power laser diodes.



Performance Advantage:

- ❑$\lambda_c = \pm 0.5$ nm
- ❑Line Width <0.5nm (FWHM)
- ❑Temp. Drift = 0.01 nm/°C
- ❑> 90% Power locked

Advantages:

- ❑Simple and compact
- ❑Economical
- ❑Lowers "Red Shift"
- ❑Collimated Beam

Applications:

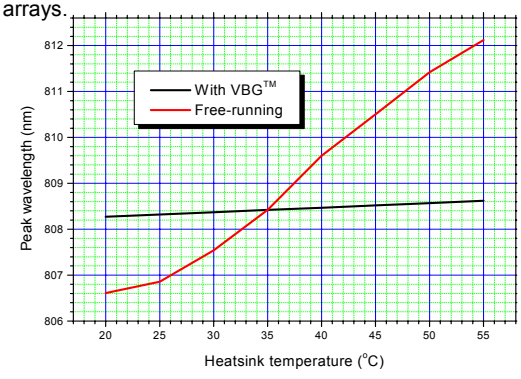
- ❑DPSS Lasers
- ❑Sensing
- ❑Spectroscopy
- ❑Medical
- ❑Military

Optical Specification

Parameters	Units	Specification		
		Min.	Typ.	Max.
Center Wavelength Accuracy	nm		0.2	0.5
FWHM	nm		0.2	0.5
Loss	%			5
Wavelength Drift over temp.	nm/ºC		0.01	
Damage Threshold Density[1]	W/cm^2			>10^6
Polarization Dependent Loss	dB			0.1
Operating Temperature	ºC	0		+70
Storage Temperature	ºC	-40		+85
Horizontal Divergence Angle	Degrees		10	
Vertical Divergence Angle	Degrees		<1	
Dimensions				
Type A	mm	1.5 X 2.0		
Type B	mm	1.5 X 15.0		

[1] Verified with 30µSec pulse @ 1064 nm with no damage.

PD-LD, Inc. will align and attach the LuxxMaster™ and Fast Axis Collimating lens on customer supplied lasers and arrays.



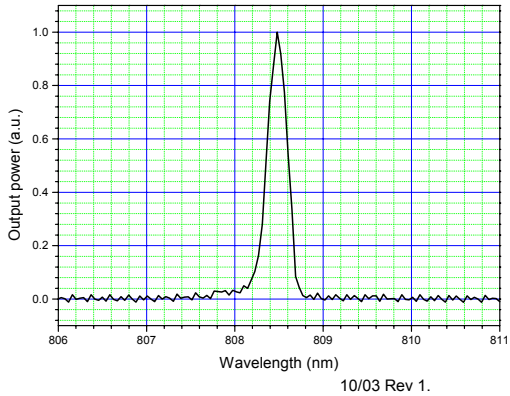
Standard Wavelengths: 785 nm, 808 nm, 976 nm, custom wavelengths between 400 nm and 2500 nm available upon request.

Part Number System:

LMS - ___ . ___ - XX

Wavelength **Dimension** **Customer Specific Reference**

E = Single Emitter 1.5 mm X 2.0 mm
B = Diode Bar 1.5 mm X 15 mm
S = 2D array 15 mm X 20 mm



Example: LMS-808.7E-XX This is a LuxxMaster™ Element for single emitter laser with a center wavelength of 808.7 nm

Specification Subject to Change

10/03 Rev 1.

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www.pd-ld.com