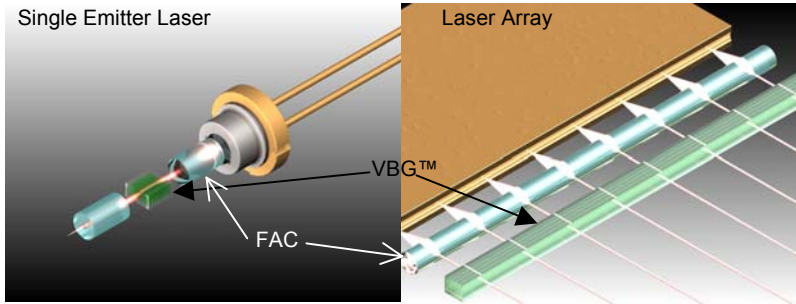


# LuxxMaster® Wavelength Stabilizer for High Power Lasers.

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



## Optical Specifications

Parameter	Units	Specification		
		Min.	Typ.	Max.
Center Wavelength Accuracy	nm		0.2	0.5
FWHM	nm		0.5	1
Loss	%		20	30
Wavelength Drift Over Temp.	nm/°C		0.01	
Damage Threshold Density <sup>1</sup>	W/cm <sup>2</sup>			>10 <sup>6</sup>
Polarization Dependent Loss	dB			0.1
Operating Temperature	°C		25	
Storage Temperature	°C	-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	

<sup>1</sup>Verified with 30µSec @ 1064 nm with no damage

## Performance Advantage:

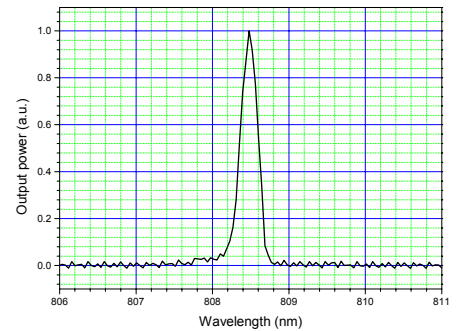
- $\lambda_c = \pm 0.5$  nm
- Line Width <1.0nm (FWHM)
- Temp. Drift = 0.01 nm/°C
- > 80% Power locked

## Advantages:

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

## Applications:

- DPSS Lasers
- Sensing
- Spectroscopy
- Medical
- Military



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      Customer Specific Reference

### Dimension

- E**= Single Emitter (1.5mm X 2.0mm)
- B**= Diode Bar (1.5mm X 15mm)
- S**= 2D Array (15mm X 22mm)
- W**= Wafer (20mm X 20mm)

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

