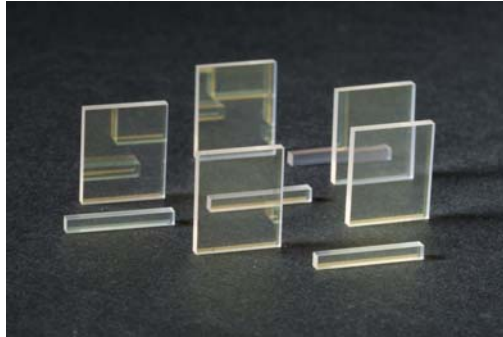




# LuxxMaster<sup>®</sup> Volume Bragg Grating (VBG<sup>®</sup>) Elements

PD-LD offers Volume Bragg Grating (VBG<sup>®</sup>) elements based upon its patented technology and advanced manufacturing process. These elements can be used in many applications where stabilized wavelength and narrow line-width are needed, such as stabilizing and shaping the emission spectra of high power laser diodes. Many wavelengths are routinely stocked, including: 785 nm, 808 nm, 976 nm, and 1064nm. Custom wavelengths between 400 nm and 2500 nm, and chirped wavelength are available upon request.



## Features:

- Wide ranges of wavelength available
- Very narrow line width
- Ultra-low Temperature Drift
- Low optical power loss
- Robust and Compact
- Economical

## Applications:

- DPSS Laser
- Sensing
- Spectroscopy
- Medical
- Military

## Specification

Parameter	Units	Min.	Typ.	Max.
Center wavelength	nm	400		2500
Center Wavelength Accuracy	nm	0.1	0.5	0.5
Line-width (FWHM)	nm		0.2	1
Wavelength Drift Over Temp.	nm/°C			0.01
Polarization Dependent Loss	dB			0.1
Operating Temperature	°C			130
Storage Temperature	°C	-40		130
Acceptance Angle	Degree		1	5

Dimensions: Many sizes are available (see part number system below)

## Part Number System

LML-\_\_\_\_.\_\_\_\_-XX



### Dimension

- E= Single Emitter (1.5mm x 2.0mm)
- B= Diode Bar (1.5mm x 15mm)
- S= 2D array (15mm x 15mm)
- W= Wafer (30mm x 30mm)

