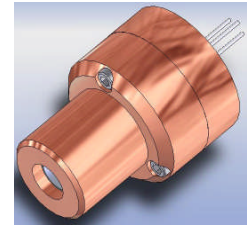




## COAXIAL VBG LOCKED PACKAGE W/INTEGRATED HEAT SINK

The LuxxMaster<sup>®</sup> wavelength stabilized 785nm laser is a VBG<sup>®</sup> locked package integrated into a heat sink for optimal optical & thermal performance. It is built using patent pending Volume Bragg Grating<sup>®</sup> (VBG<sup>®</sup>) technology, which is used for stabilizing and shaping the emission spectra of laser diodes.



### Superior Performance:

- $\lambda_c = \pm 0.5$  nm
- Line Width ~ 0.1pm
- Wide temperature range
- Low Temperature drift of ~0.01nm/C

### Advantages:

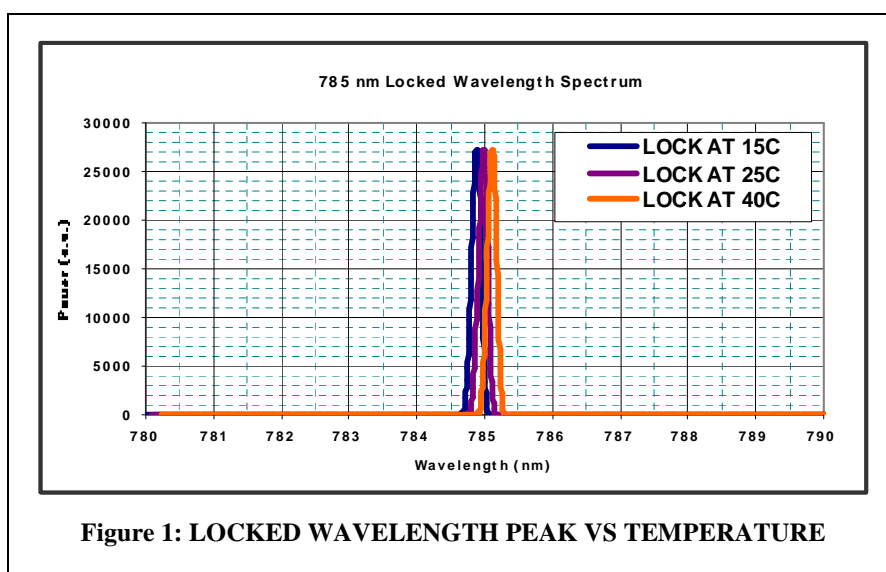
- Integrated Heat Sink
- Economical
- Ease of System Integration

### Applications:

- Sensing
- Spectroscopy
- Medical
- Military

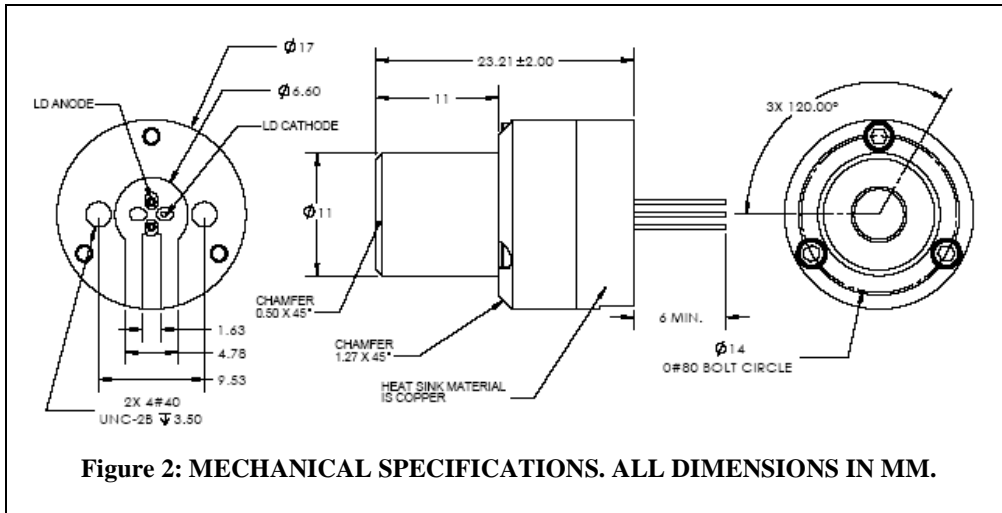
### Operational Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Wavelength	nm	784.5	785	785.5
Output Power	mWatts	60	-	-
Operating Voltage	Volts	1.9		2.1
Operating Current	mA		150	180
Threshold Current	mA		35	50
Line width	pm / MHz		0.1 / 50	
Operating Temperature with Stabilization	°C	15	25	40
Beam Divergence	Deg		0.30	0.50





## COAXIAL VBG LOCKED PACKAGE W/INTEGRATED HEAT SINK



### Part Number System

LML-\_\_\_.-T9-XX

- \_\_\_.- indicates the wavelength.
- T9 indicates TO-9 package.
- XX is a customer specific reference.

**Example: LML-785.0T9-XX.** This is a LuxxMaster® Laser with a center wavelength of 785 nm in a TO-9 package.

