

## LUXXMASTER® 波長安定化 785nm ラマン散乱用光源(LD)

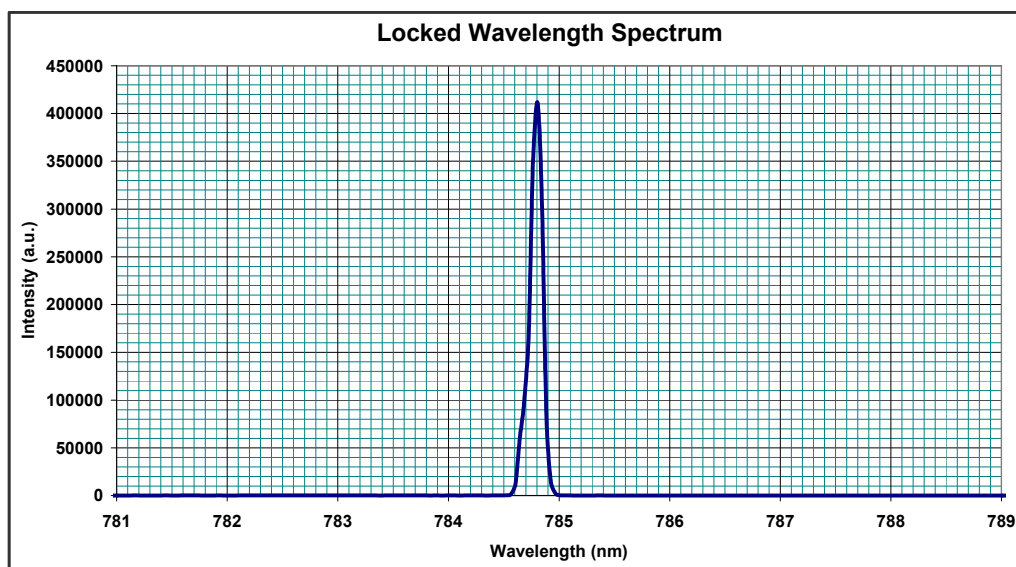
The LuxxMaster® LML series Raman Boxx™ packages PD-LD's award winning LuxxMaster® Volume Bragg Grating® (VBG™) in a rugged box ideally suited for Raman spectroscopy and other narrow linewidth applications. Its small size and simple interface makes the Raman Boxx™ ideal for industrial, military and security applications.

### 特長

- 動作特性
  - カスタム波長 (785nmが基本)
  - 中心波長  $\Delta c = \pm 0.5 \text{ nm}$
  - Line Width -  $3 \text{ cm}^{-1}$
  - Thermo Electric Cooler にする温度制御可
  - モニター用フォトダイオード付
  - ハイパワー
- 機械特性
  - シンプル且つコンパクト

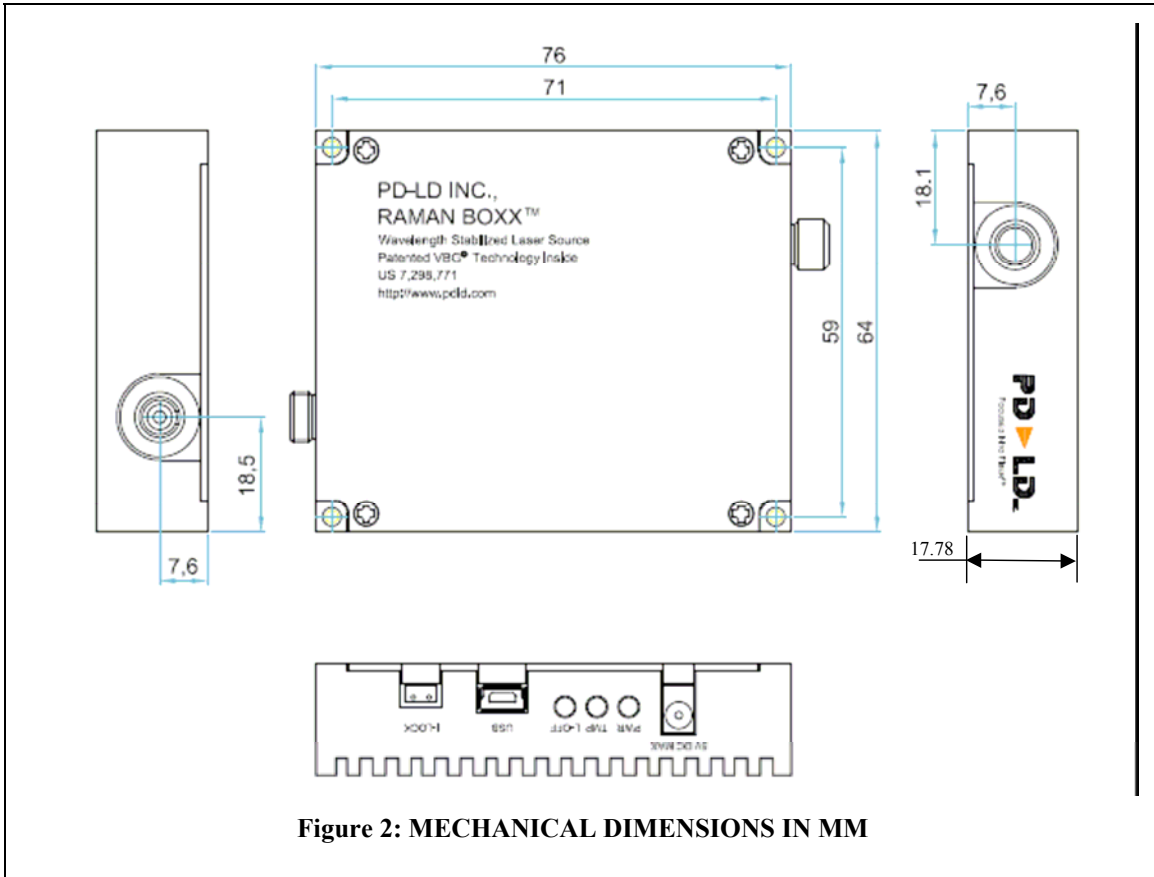


Figure 1: LUXXMASTER® COMPACT RAMAN BOXX™

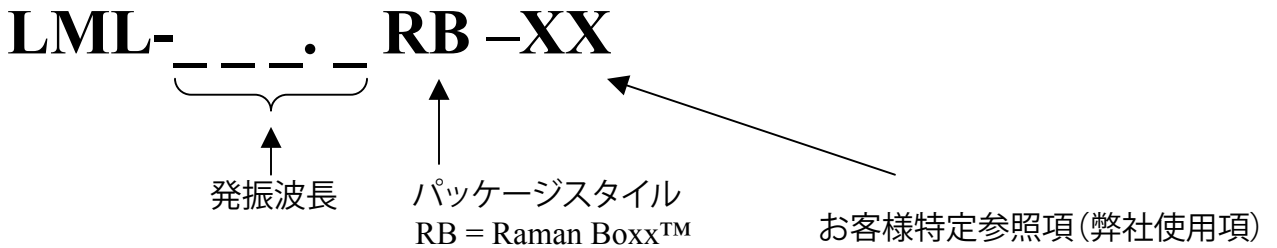


**RAMAN BOXX™ SPECIFICATIONS**

	Other	Min.	Typical	Max.	Units
<b>Electrical Specifications</b>					
DC Input				2A @ 5V	
Warm up Time (from cold start)				10	Seconds
<b>Optical Specifications</b>					
Output Power <sup>A</sup>			500	600	mW
Center Wavelength		784.50	785.00	785.50	nm
Light Mode	Multimode				
Spectral Line Width			0.08	0.10	nm
			1.30	1.70	cm <sup>-1</sup>
Wavelength Stability <sup>B</sup>			± 5		pm
Wavelength Stability <sup>C</sup>			± 5		pm
ASE Suppression (Optical SNR)			40		dB
Optical Power Variations <sup>D</sup>			<1		%pk-pk
Noise			<0.25		%rms
Expected Lifetime			>10000		hrs
<i>Note A</i>	<i>Connector Port Power</i>				
<i>Note B</i>	<i>Over 24 hours with properly stabilized laser</i>				
<i>Note C</i>	<i>Maximum drift due to temperature range and over device lifetime</i>				
<i>Note D</i>	<i>8 hours of continuous operation</i>				
<b>Mechanical Specifications</b>					
Physical Dimensions (L X W X H)	76.2 x 65.5 x 17.8				mm
Thermal Management	Laser TEC controlled				
Fiber Core Diameter			105		um
Fiber NA			0.22		
Connector Type	FC/APC				
Weight			100		grams
<b>Environmental Specifications</b>					
Ambient Temperature		0		50	°C
Humidity (non-condensing)		5		95	%



## 型番指定方法



### 例) LML-785.0RB-XX

上記型番は中心波長 785nm のLuxxMaster® Raman Boxx™ になります。