

USHIO *Applying Light to Life*

Diode Lasers LML Series

NovaTru™ Chroma High Power Compact Laser Module



KEY PERFORMANCE FEATURES

- Stable High Power Laser Source
- Compact Single Box Design
- No Heat Sink Required
- VBG® Wavelength Stabilized
- Digital & Analog Control Functions
- Free-space or Fibered Outputs

APPLICATIONS

- Raman Excitation Source
- Security System Illumination
- Power Over Fiber Systems
- Real-time Process Control
- Metrology
- LIDAR

Center Wavelength ($\pm 0.5\text{nm}$)

785nm

830nm

Powered by:



SPECIFICATIONS

Operating Specifications	Units	Value
Output Power*	mW	200 to 1500
Spectral Linewidth (Typical)	nm cm-1 GHz	0.1 1.3 50
Wavelength Stability (Max)	pm	±10
ASE Suppression (Typical)	dB	40
Optical Power Stability (Typical)	% pk-pk	<1
Noise (Typical)	% rms	NA
Modulation - Digital (Typical)	kHz	10
Power Adjustability	%	10 to 100

*See ordering information for options.

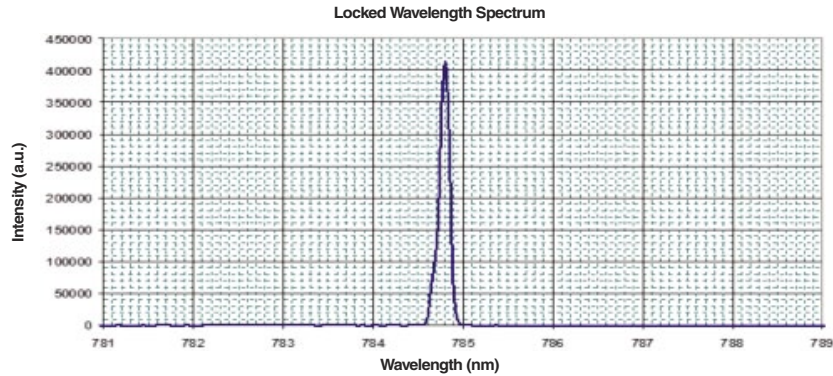
Free Space Optical Specifications	Units	Value
Beam Quality (m ² Typical) - Vertical	–	1.2
Beam Quality (m ² Typical) - Horizontal	–	NA
Beam Diameter - Vertical	mm	1
Beam Diameter - Horizontal	mm	5
Beam Divergence - Vertical	deg	1
Beam Divergence - Horizontal	deg	5
Polarization Ratio	linear	100:1

Electrical Specifications	Units	Value
DC Input (Max)	–	3A @ 5.1V
Warm-up Time (Typical)	sec	5
Power Consumption (Typical/Max)	W	9/15
Interface - USB & 10-Pin I/O Connectors		

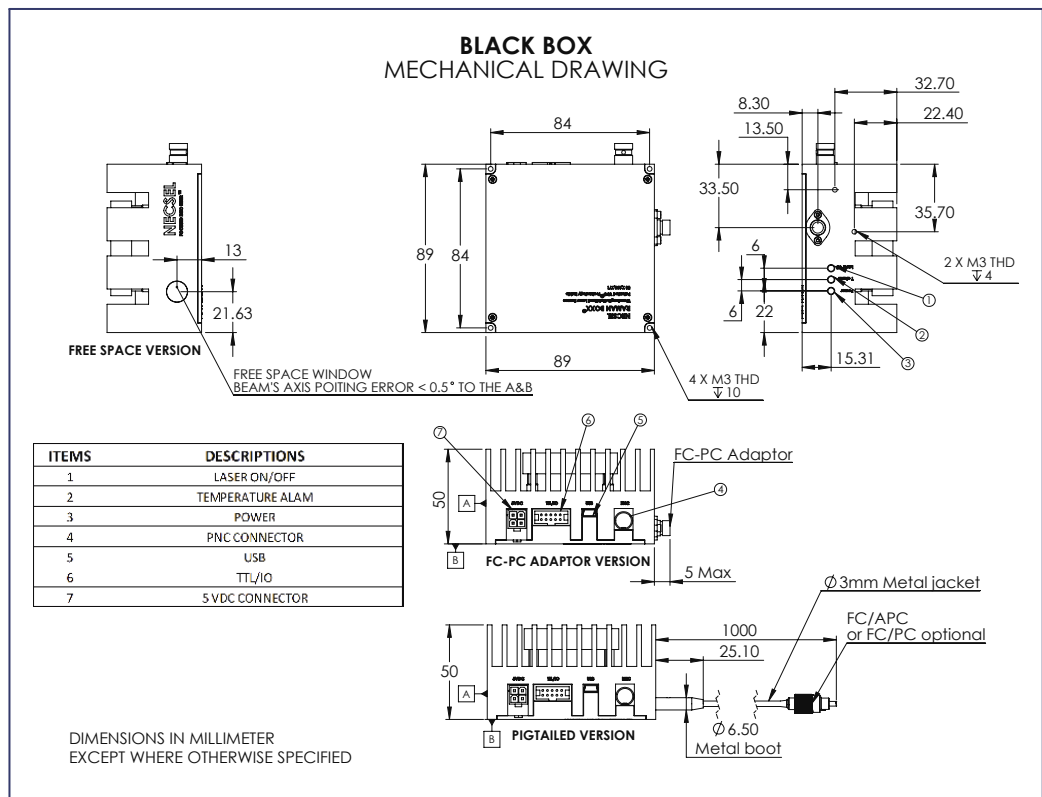
Environmental Specifications	Units	Value
Operating Case Temperature*	°C	-10 to 50
Humidity (Non-condensing)	%	5 to 80
Storage Temperature	°C	-20 to 85

*Must be operated on a heat sink.

SPECIFICATIONS & SPECTRUM CHART



Weight = 400 grams Dimensions = 405 cm³ (24.70 in³)



ORDERING INFORMATION

Part Number	Output Power mW	Configuration
LML-785.0RB-03	500	FC/APC Receptacle
LML-785.0RB-04	500	FC/PC Receptacle
LML-785.0RB-05	800	FC/APC Receptacle
LML-785.0RB-09	1000	FC/APC Receptacle
LML-785.0RB-10	1000	1.0m Pigtail w FC/APC Connector
LML-785.0RB-11	1500	0.5m Pigtail w FC/PC Connector
LML-785.0RB-14	1500	Free Space
LML-830.0RB-03	1000	FC/PC Receptacle
LML-830.0RB-04	1000	1.0m Pigtail w FC/PC Connector
LML-830.0RB-05	1500	Free Space

Units with female connector receptacles are specified for mating to 105/125um MMF with NA=0.22.

Units with fiber pigtails are equipped with 105/125um MMF with NA=0.22 and having 3mm OD stainless steel protective armor.

Part Number System: **LML - XXX.XRB - XX**

Specific
Wavelength

Version
Type



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