



Diode Lasers

LML Series

HIGH POWER RUGGEDIZED MULTIMODE SERIES



Key Performance Features

- Stable High Power Laser Source
- Compact Single Box Design
- Rugged Construction
- 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
(+/- 0.5 nm)**

647nm

785nm

830nm

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	Units	Value
Operating Specifications		
Output power*	mW	200 to 1500
Spectral linewidth (typical)	nm	0.1
	cm-1	1.5
	GHz	50
Wavelength stability (max)	pm	+/- 5
ASE suppression (typical)	dB	40
Optical power stability (typical)	% pk-pk	<1
Noise (typical)	% rms	N/A
Modulation-digital (typical)	kHz	10
Power adjustability	%	10 to 100

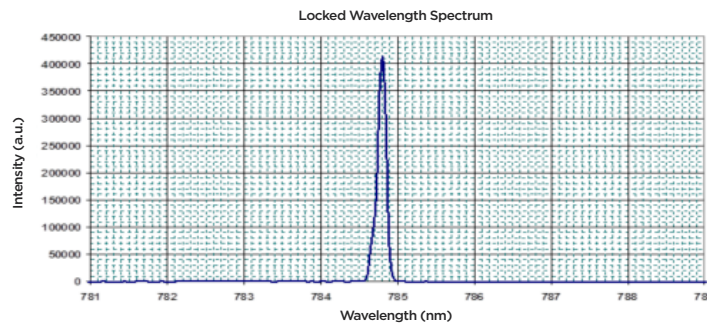
*See Ordering Information for Options

	Units	Value
Free Space Optical Specifications		
Beam quality (m ² typical) vertical		1.2
Beam quality (m ² typical) horizontal		N/A
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

	Units	Value
Electrical Specifications		
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		

	Units	Value
Environmental Specifications		
Ambient temperature*	°C	-20 to +60
Humidity (non-condensing)	%	5 to 95

*Must be operated on a heat sink



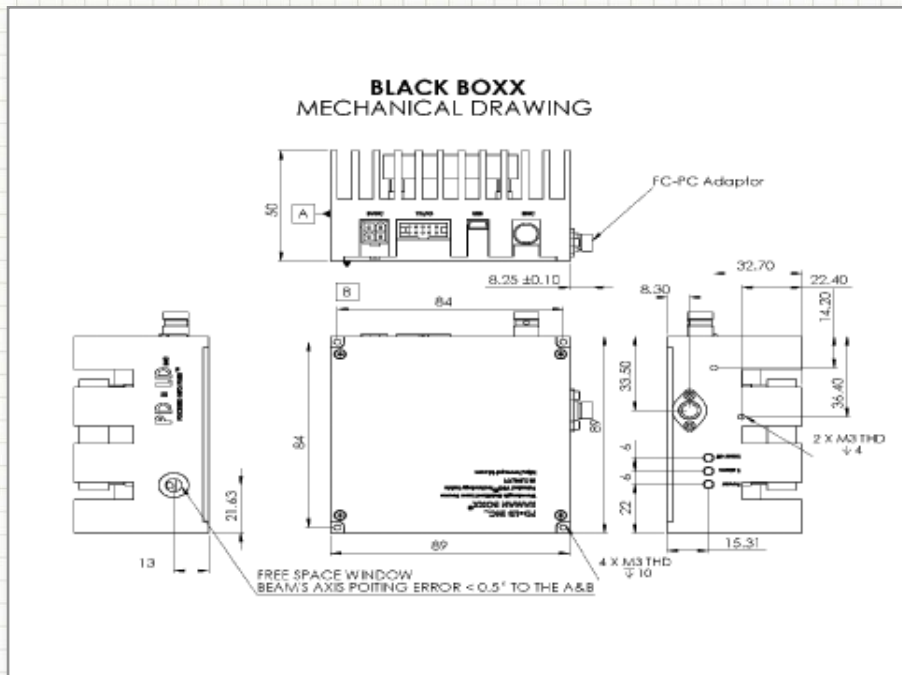


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Weight = 400 grams Size = 405 cm³ (24.70 in³)



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Ordering Information

Part Number	Fiber Type*	Output Power mW	Connector
LML-785.ORB-01	A	500	SMA905
LML-785.ORB-02	A	1000	FC/APC
LML-785.ORB-03	A	500	FC/APC
LML-785.ORB-04	A	500	FC/PC
LML-785.ORB-05	A	800	FC/APC
LML-785.ORB-06	C	800	FC/APC
LML-785.ORB-FS	—	1500	—

Part Number System: LML - XXX.XRB - XX

 Specific Wavelength
 Fiber Type

*Fiber Types:

- A. 105/125/250 0.22NA with 900 μ m loose buffer
- B. 50/125/900 0.20NA
- C. 62.5/125/900 0.29NA

