

## LRD-0793 Collimated Diode Laser System

### Laserglow Part Number: D7915B1FX

This model is listed as **inactive** in our product database. Stock may be limited, and availability is subject to change without notice.



#### Similar Products:

For information about the other lasers in this product family visit:

<http://www.laserglow.com/D79>

#### Ordering:

Order Online Now or Request Quote:

<http://www.laserglow.com/D7915B1FX>

#### Series Specifications:

Nominal Wavelength	793 nm
Output Type	CW
Laser Source Type	Diode



#### Overview:

The LRD-0793 Series of Collimated Diode (Semiconductor) Lasers are ideal for applications requiring a wavelength around 793 nm and a wide range of output power levels of 10 mW to 2000 mW with a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for communications research as well as scientific applications involving spectral analysis, biology research, and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

Available with onboard and remote on/off control as well as a wide array of output power and stability levels, Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

#### Key Features:

- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient Diode Laser technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- FDA CDRH Compliant Class IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

#### Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

## Specifications:

This spec sheet has been generated specifically for part number D7915B1FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to D7915B1FX have been highlighted below in **red + bold**.

Output Power (mW)	>10, >50, >100, >300, >500, >1000, <b>&gt;1500</b>
Output Power Stability (%RMS/4h)	<b>&lt;1</b> , <3, <5, <10
Central Wavelength (nm)	<b>793</b>
Wavelength Tolerance (+/- nm)	<b>5</b>
Divergence (mrad, full angle)	<b>&lt;3</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	5x8
Warm-up Time (minutes)	<b>5</b>
Operating Temperature Range (°C)	<b>10 to 35</b>
Max. Analog Modulation Freq. (Hz)	<b>30000</b>
Max. TTL Modulation Freq. (Hz)	10000, <b>30000</b>
Modulation Input Signal	<b>0-5 VDC</b>
Total Power Consumption (W)	16, 18, 28
Max. Power Input Duty Cycle	<b>100%</b>
Standard Warranty (months)	<b>12</b>
MTTF (operational hours)	<b>10000</b>
Weight of Product or Laser Head (kg)	<b>0.6</b>
Beam Height from Base Plate (mm)	<b>24.8</b>
Dimensions of Product or Laser Head (mm)	<b>140.7 (l) x 73 (w) x 46.2 (h)</b>


CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.

Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

## Power Supply Options:

These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

	Power Supply Type:	<b>FR</b>
	Input Power	<b>85v to 264v</b>
	Power Supply Weight (kg)	<b>1.5</b>
	Dimensions (mm)	<b>154 (l) x 155 (w) x 95 (h)</b>

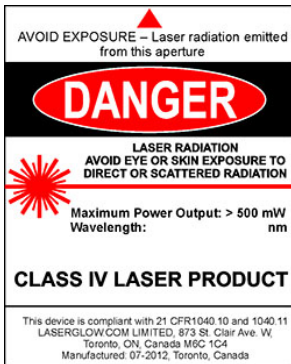
	Power Supply Type:	<b>SR</b>
	Input Power	85v to 264v
	Power Supply Weight (kg)	1.2
	Dimensions (mm)	133 (l) x 130 (w) x 65 (h)

\*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

\*Dimensions for fiber-integrated (I\_) include laser head packaged inside.

## Regulatory Classification:

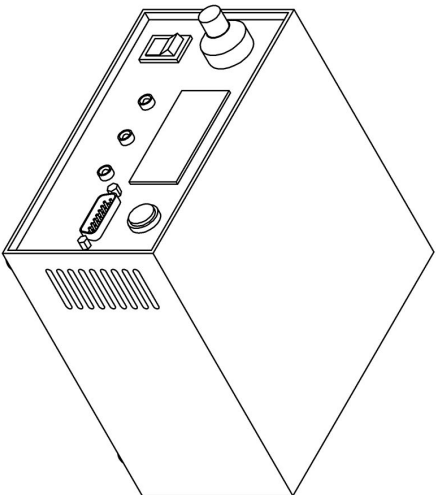
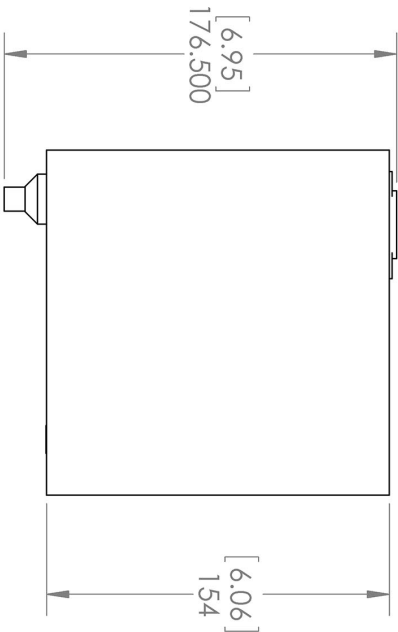
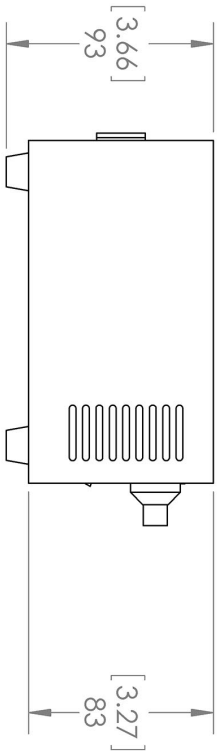
The model you have selected (D7915B1FX) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: R:



Dimensional Drawing - Power Supply Form Factor: FR:



Laserglow Technologies

TITLE:

Power Supply  
FM/FR

REV  
1

SCALE: 1:3

SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED:







DIMENSIONS ARE IN MM(INCH)

TOLERANCES: +/- 0.75 MM

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## Accessories:

The most popular accessories for model D7915B1FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: <a href="http://www.laserglow.com/AFF">www.laserglow.com/AFF</a>	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: <a href="http://www.laserglow.com/AFS">www.laserglow.com/AFS</a>	
 AGF80859X	LSG-808-NF-6 Fit-Over Safety Goggles 808nm Output: OD 6+ at 800-818 nm CE Certified Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</a>	
 ACFNIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (700 to 1000 nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.laserglow.com/ACF">www.laserglow.com/ACF</a>	
 ACSNIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (700 to 1000nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.laserglow.com/ACS">www.laserglow.com/ACS</a>	
 ACALBMXXX	Carrying Case-102 Holds Lab/OEM M, R and S size, standard or LabSpec laser Full Details: <a href="http://www.laserglow.com/ACA">www.laserglow.com/ACA</a>	Included With Laser

## FOR MORE INFORMATION PLEASE CONTACT:

LASERGLOW TECHNOLOGIES  
99 Ingram Dr. Unit B, North York, ON, Canada M6M2L7  
Tel. (416) 729-7976 Fax (716) 322-3510  
[sales@laserglow.com](mailto:sales@laserglow.com) [www.laserglow.com](http://www.laserglow.com)

E&OE: Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.