

Laserglow Product Datasheet

LRD-0793 Collimated Diode Laser System

Laserglow Part Number: D7920B5FX

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/D7920B5FX

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

- 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 D7920B5FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to D7920B5FX have been highlighted below in red + bold.

	>10 > 50 > 100 > 200 > 500 > 1000 > 0000
Output Power (mW)	>10, >50, >100, >300, >500, >1000, >2000
Output Power Stability (%RMS/4h)	<1, <3, <mark><5</mark> , <10
Central Wavelength (nm)	793
Wavelength Tolerance (+/- nm)	5
Divergence (mrad, full angle)	<3
Beam Dimensions (mm, 1/e ²)	5x8
Warm-up Time (minutes)	5
Operating Temperature Range (°C)	10 to 35
Max. Analog Modulation Freq. (Hz)	30000
Max. TTL Modulation Freq. (Hz)	10000, 30000
Modulation Input Signal	0-5 VDC
Total Power Consumption (W)	16, 18, 28
Max. Power Input Duty Cycle	100%
Standard Warranty (months)	12
MTTF (operational hours)	10000
Weight of Product or Laser Head (kg)	0.6
Beam Height from Base Plate (mm)	24.8
Dimensions of Product or Laser Head (mm)	140.7 (l) x 73 (w) x 46.2 (h)

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:	FR
FDA-Compliant LabSpec	Input Power	85v to 264v
3 100 2	Power Supply Weight (kg)	1.5
and the second second	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)

	Power Supply Type:	SR
FDA-Compliant Standard	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 (D7920B5FX) requires the following safety label(s):







Dimensional Drawing - Power Supply Form Factor: FR:



Accessories:

The most popular accessories for model D7920B5FX 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: <u>www.laserglow.com/AFF</u>	
AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: <u>www.laserglow.com/AFS</u>	
AGF80859X	LSG-808-NF-6 Fit-Over Safety Goggles 808nm Output: OD 6+ at 800-818 nm CE Certified Full Details: www.laserglow.com/AGF	
ACFNIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (700 to 1000 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
ACSNIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (700 to 1000nm) (installed and aligned) 11mm diameter input lens Full Details: <u>www.laserglow.com/ACS</u>	
ACALBMXXX	Carrying Case-102 Holds Lab/OEM M, R and S size, standard or LabSpec laser Full Details: <u>www.laserglow.com/ACA</u>	Included With Laser

FOR MORE INFORMATION PLEASE CONTACT:

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Please confirm critical specifications with our staff prior to ordering.