

### LRD-0801 Collimated Diode Laser System

Image  
Coming  
Soon!

#### Series Specifications:

Nominal Wavelength	801 nm
Output Type	CW
Laser Source Type	Diode

#### Overview:

## Specifications:

This spec sheet has been generated specifically for part number D8C-R, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to D8C-R have been highlighted below in **red + bold**.


Output Power (mW)	<b>&gt;100</b>
Output Power Stability (%RMS/4h)	<b>&lt;1</b>
Central Wavelength (nm)	<b>801</b>
Wavelength Tolerance (+/- nm)	<b>3</b>
Divergence (mrad, full angle)	<b>&lt;3</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	<b>5x8</b>
Warm-up Time (minutes)	<b>5</b>
Spectral Linewidth (nm)	<b>&lt;1.5</b>
M <sup>2</sup>	<b>&lt;20</b>
Polarization Ratio	<b>&gt;50</b>
Beam Pointing Stability (mrad)	<b>&lt;0.05</b>
Operating Temperature Range (°C)	<b>10 to 35</b>
Max. Analog Modulation Freq. (Hz)	<b>30000</b>
Max. TTL Modulation Freq. (Hz)	<b>30000</b>
Modulation Input Signal	<b>0-5 VDC</b>
Total Power Consumption (W)	<b>14</b>
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>
FDA-Compliant LabSpec 	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 may not be exactly as shown, see dimensional drawings on next 2 pages.

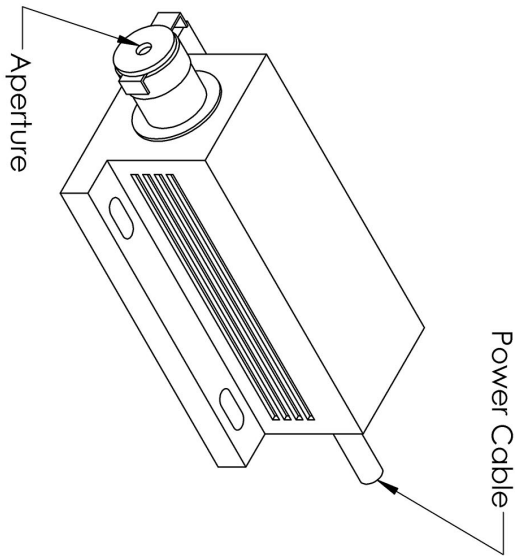
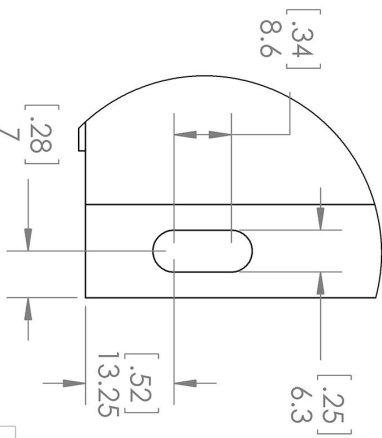
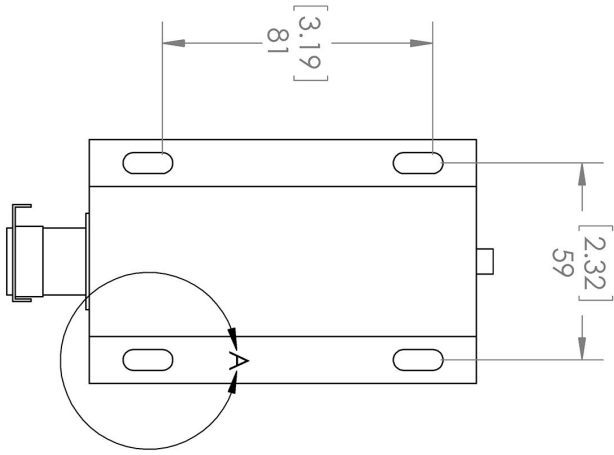
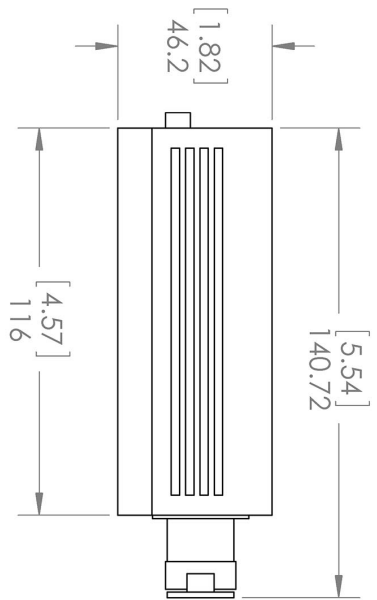
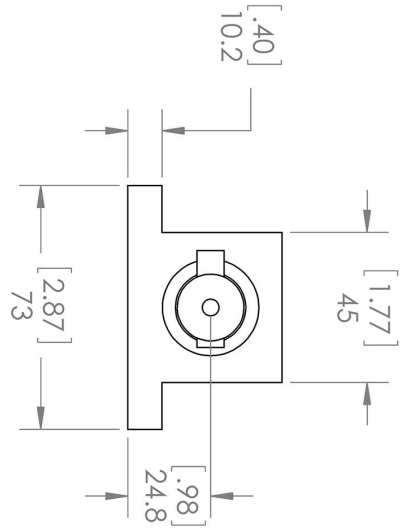
\*Dimensions for fiber-integrated (I\_) include laser head packaged inside.

## Regulatory Classification:

The model you have selected (D8C-R) requires the following safety label(s):



**Dimensional Drawing - Laser Form Factor: R:**



DETAIL A  
SCALE 1 : 1

TITLE:  
Laserglow Technologies

Lab/OEM  
M/R Housing REV 1

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM(INCH)  
TOLERANCES: +/- 0.75 MM

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SCALE: 1:2

SHEET 1 OF 1

**Dimensional Drawing - Power Supply Form Factor: FR:**



UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN MM(INCH)  
 TOLERANCES: +/- 0.75 MM

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**Laserglow Technologies**

TITLE:

**Power Supply**  
**FM/FR**

REV  
**1**

SCALE: 1:3

SHEET 1 OF 1

**Accessories:**

The most popular accessories for model D8C-R are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
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**FOR MORE INFORMATION PLEASE CONTACT:**

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

Please confirm critical specifications with our staff prior to ordering.