

# Laserglow Product Datasheet

## LLD-0750 Low-Noise Collimated Diode Laser System

**Laserglow Part Number:**  
**J7530B5FX**



### Similar Products:

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

<http://www.laserglow.com/J75>

### Ordering:

Order Online Now or Request Quote:

<http://www.laserglow.com/J7530B5FX>

### Series Specifications:

Nominal Wavelength	750 nm
Output Type	CW
Laser Source Type	Diode



### Overview:

The LLD-0750 Series of Low-Noise Collimated Diode Lasers are ideal for applications requiring less than 1% noise and output power levels from 100 mW to 5000 mW. These 750 nm lasers maintain a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for fluorescence excitation, PIV, Raman Spectroscopy, 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.

Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

### Key Features:

- 1% optical noise (20 Hz-20 MHz)
- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- FDA CDRH Compliant Class IIb / 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 J7530B5FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to J7530B5FX have been highlighted below in **red + bold**.


Output Power (mW)	>100, >200, >300, >500, >1000, >1500, >2000	<b>&gt;3000, &gt;4000, &gt;5000</b>
Output Power Stability (%RMS/4h)	<1, <3, <5	<1, <3, <b>&lt;5</b>
Central Wavelength (nm)	750	<b>750</b>
Wavelength Tolerance (+/- nm)	5	<b>5</b>
Divergence (mrad, full angle)	<3	<b>&lt;3</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	5x8	5x8
Warm-up Time (minutes)	5	<b>5</b>
Optical Noise Amplitude (%RMS @ 20 Hz - 20 MHz)	<1	<b>&lt;1</b>
Operating Temperature Range (°C)	10 to 35	<b>10 to 35</b>
Max. Analog Modulation Freq. (Hz)	30000	<b>30000</b>
Max. TTL Modulation Freq. (Hz)	30000	<b>30000</b>
Modulation Input Signal	0-5 VDC	<b>0-5 VDC</b>
Max. Power Input Duty Cycle	100%	<b>100%</b>
Standard Warranty (months)	12	<b>12</b>
MTTF (operational hours)	10000	<b>10000</b>
Weight of Product or Laser Head (kg)	0.6	<b>0.9</b>
Beam Height from Base Plate (mm)	24.8	<b>29</b>
Dimensions of Product or Laser Head (mm)	140.7 (l) x 73 (w) x 46.2 (h)	<b>155 (l) x 77 (w) x 60 (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.

<div>FDA-Compliant LabSpec</div> <div></div>	Power Supply Type:	FR	FT
	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.5	2.6
	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)	268 (l) x 145 (w) x 106 (h)

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

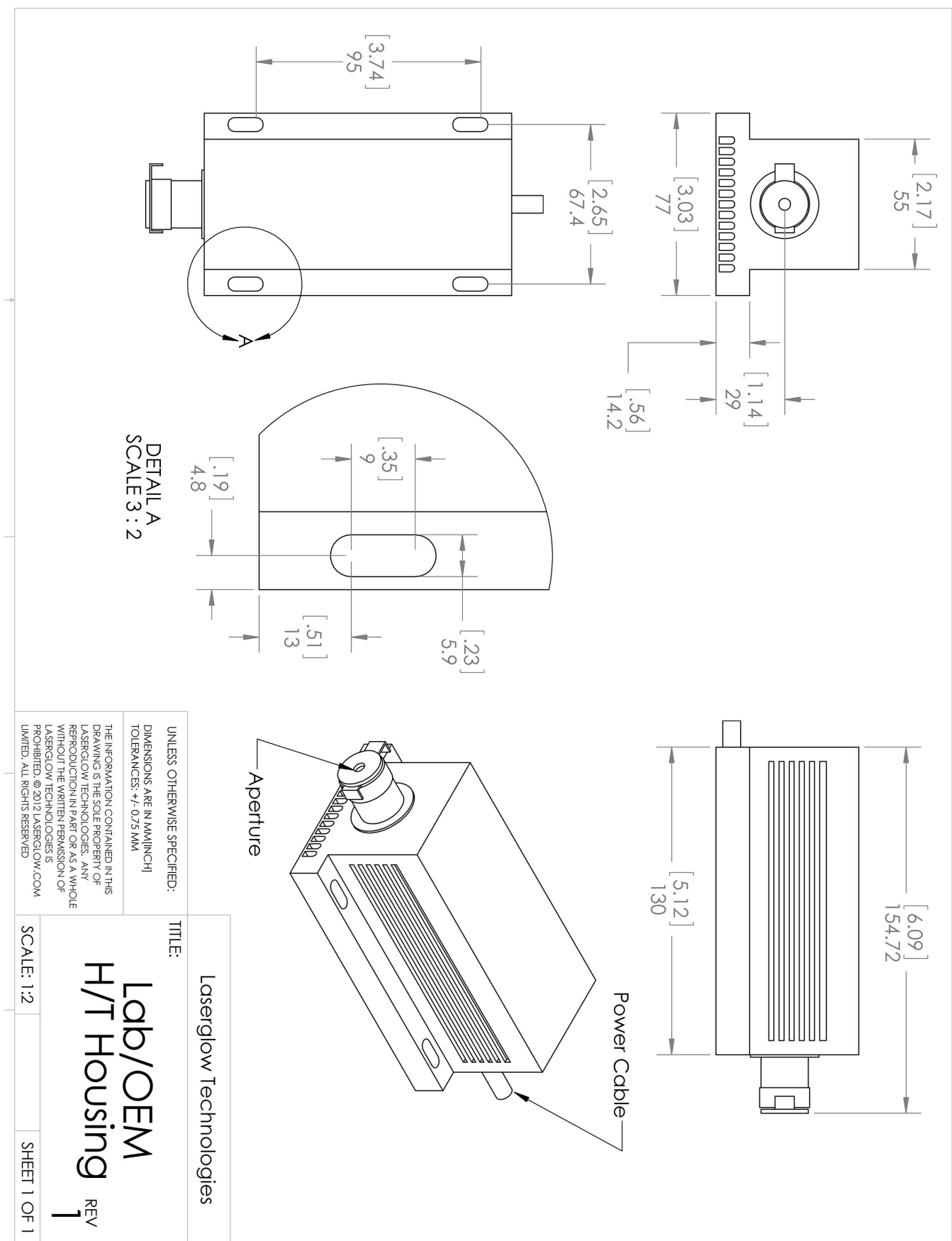
\*Dimensions for fiber-integrated (I\_) include laser head packaged inside.

## Regulatory Classification:

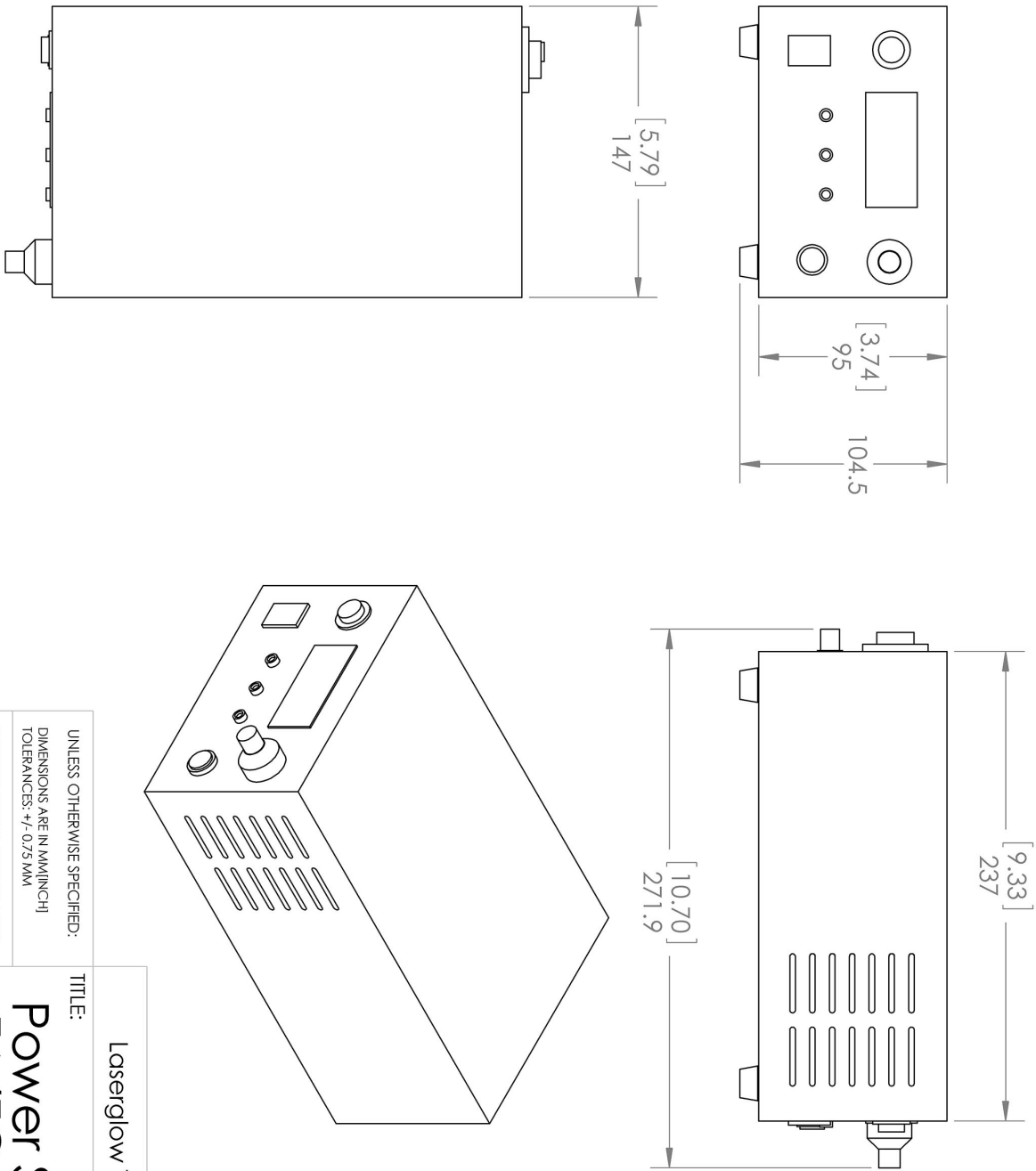
The model you have selected (J7530B5FX) requires the following safety label(s):



### Dimensional Drawing - Laser Form Factor: T:



Dimensional Drawing - Power Supply Form Factor: FT:



UNLESS OTHERWISE SPECIFIED:

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

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Laserglow Technologies

TITLE:







Power Supply  
FA/FO/FT/FV  
REV 1

SCALE: 1:3

SHEET 1 OF 1

## Accessories:

The most popular accessories for model J7530B5FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 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>	
 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
 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>	
 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>	
 AGFKTP59X	LSG-KTP-NF-6 Fit-Over Safety Goggles 532/808/1064nm Output: OD 6+ at 190-534/740-1064 nm CE Certified Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</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>	

## 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.