Laserglow Product Datasheet

LRS-1910 DPSS Laser System

Laserglow Part Number: RJ11003FX



Similar Products:

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

http://www.laserglow.com/RJ1

Ordering:

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http://www.laserglow.com/RJ11003FX

Series Specifications:

Nominal Wavelength	1910 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

The LRS-1910 Series of Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring 10 mW to 500 mW of 1910 nm laser light 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 various scientific applications such as measurement, communications research, spectral analysis, 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 both on-board 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 DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- TTL and Analog modulation (input via BNC connector) *lab-spec models only*
- Adjustable output power (via lockable dial) *lab-spec models only*
- LED display showing LD current, laser cavity temperature *lab-spec models only*
- 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 RJ11003FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to RJ11003FX have been highlighted below in **red + bold**.

Output Power (mW)	>10, >50, **>100**, >200
Output Power Stability (%RMS/4h)	<1, **<3**, <5, <10
Central Wavelength (nm)	**1910**
Wavelength Tolerance (+/- nm)	**1**
Divergence (mrad, full angle)	**<8**
Beam Dimensions (mm, 1/e²)	**4**
Warm-up Time (minutes)	**10**
Polarization Ratio	**>500**
Beam Pointing Stability (mrad)	**<0.05**
Operating Temperature Range (°C)	**10 to 35**
Max. Analog Modulation Freq. (Hz)	**500**
Max. TTL Modulation Freq. (Hz)	**500**, 10000
Modulation Input Signal	**0-5 VDC**
Max. Power Input Duty Cycle	**100%**
Standard Warranty (months)	**12**
MTTF (operational hours)	**10000**
Weight of Product or Laser Head (kg)	**1.6**
Beam Height from Base Plate (mm)	**45**
Dimensions of Product or Laser Head (mm)	**211.5 (l) x 88 (w) x 74 (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.

FDA-Compliant LabSpec 	Power Supply Type:	**FF**
	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**2.6**
	Dimensions (mm)	**268 (l) x 145 (w) x 106 (h)**

FDA-Compliant Standard 	Power Supply Type:	**SF**
	Input Power	85v to 264v
	Power Supply Weight (kg)	2.3
	Dimensions (mm)	238 (l) x 146 (w) x 102 (h)

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

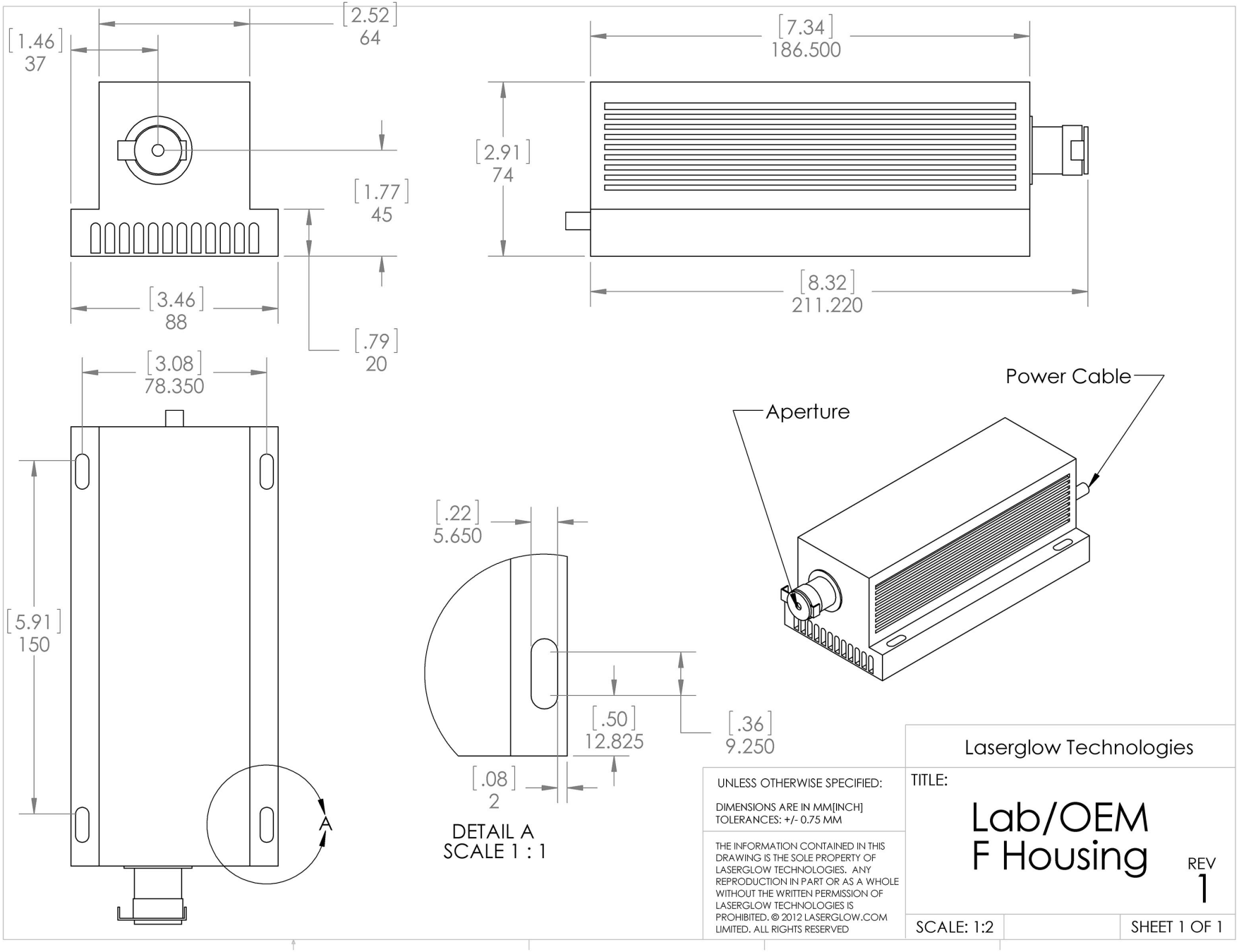
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

The model you have selected (RJ11003FX) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: F:



Laserglow Technologies

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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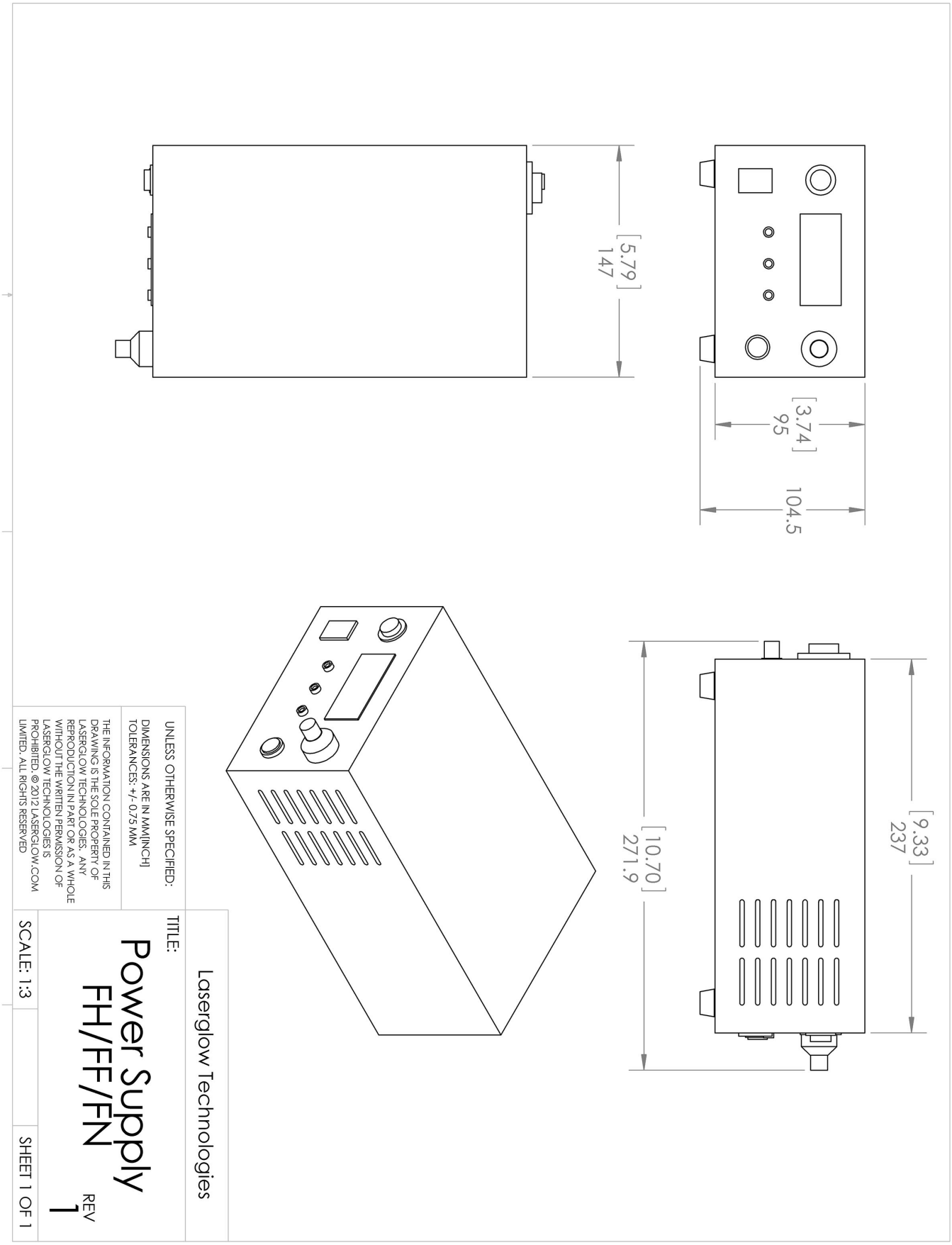
Lab/OEM F Housing

REV 1

SCALE: 1:2

SHEET 1 OF 1

Dimensional Drawing - Power Supply Form Factor: FF:



Accessories:

The most popular accessories for model RJ11003FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACALBHFXX	Carrying Case-103 Holds Lab/OEM H, F and O size Standard/LabSpec laser Full Details: www.laserglow.com/ACA	Included With Laser
 AGFMIR4XX	LSG-MIR-NF-4 Fit-Over Safety Goggles Mid-IR Range Output: OD 4+ at 945-10600 nm CE Certified Full Details: www.laserglow.com/AGF	

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.