

Laserglow Product Datasheet

LLD-0680 Low-Noise Collimated Diode Laser System

Laserglow Part Number: J6B8001FX

Similar Products:

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http://www.laserglow.com/J6B

Ordering:

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http://www.laserglow.com/J6B8001FX

Series Specifications:

Nominal Wavelength	680 nm
Output Type	CW
Laser Source Type	Diode



Overview:

The LLD-0680 Series of Low-Noise Collimated Diode Lasers are ideal for applications requiring less than 1% noise and output power levels from 10 mW to 800 mW. These 680 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 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 J6B8001FX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to J6B8001FX have been highlighted below in **red + bold**.

Output Power (mW)	>10, >100, >200, >500, >800	
Output Power Stability (%RMS/4h)	<1 , <3 , <5	
Wavelength Tolerance (+/- nm)	5	
Divergence (mrad, full angle)	<3	
Beam Dimensions (mm, 1/e²)	5x8	
Warm-up Time (minutes)	5	
Polarization Ratio	>50	
Beam Pointing Stability (mrad)	<0.05	
Operating Temperature Range (°C)	10 to 35	
Max. Analog Modulation Freq. (Hz)	30000	
Max. TTL Modulation Freq. (Hz)	30000	
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)	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
	Power Supply Weight (kg)	1.5
	Dimensions (mm)	154 (I) x 155 (w) x 95 (h)

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

Regulatory Classification:

The model you have selected (J6B8001FX) requires the following safety label(s):



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

Dimensional Drawing - Laser Form Factor: R:



Dimensional Drawing - Power Supply Form Factor: FR:



Accessories:

The most popular accessories for model J6B8001FX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Dout Number	December 11 and	
Part Number	Description	

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.