

Laserglow Product Datasheet

LRD-0905 Collimated Diode Laser System

Laserglow Part Number: D90050XFX

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/D90>

Ordering:

Order Online Now or Request Quote:

<http://www.laserglow.com/D90050XFX>

Series Specifications:

Nominal Wavelength	905 nm
Output Type	CW
Laser Source Type	Diode



Overview:

The LRD-0905 Series of Collimated Diode (Semiconductor) Lasers are ideal for applications requiring a wavelength of around 915 nm and a wide range of output power levels from 10 mW to 200 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 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 D90050XFX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to D90050XFX have been highlighted below in **red + bold**.

Output Power (mW)	>30, >50, >70	>50 , >100, >200, >400
Output Power Stability (%RMS/4h)	<1, <3	<1, <3, <10
Central Wavelength (nm)	905	905
Wavelength Tolerance (+/- nm)	5	10
Divergence (mrad, full angle)	<1	<2.5
Beam Dimensions (mm, 1/e ²)	3.5	5x8
Warm-up Time (minutes)	5	10
Beam Pointing Stability (mrad)	<0.05	
Operating Temperature Range (°C)	10 to 35	10 to 35
Max. Analog Modulation Freq. (Hz)	30000	30000
Max. TTL Modulation Freq. (Hz)	30000	10000 , 30000
Modulation Input Signal	0-5 VDC	0-5 VDC
Max. Power Input Duty Cycle	100%	100%
Standard Warranty (months)	12	12
MTTF (operational hours)	10000	10000
Weight of Product or Laser Head (kg)	0.6	0.6
Beam Height from Base Plate (mm)	24.8	24.8
Dimensions of Product or Laser Head (mm)	140.7 (l) x 73 (w) x 46.2 (h)	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
	Input Power	85v to 264v
	Power Supply Weight (kg)	1.5
	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)

	Power Supply Type:	SR
	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 (D90050XFX) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: R:



Dimensional Drawing - Power Supply Form Factor: SR:



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

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Lasergllow Technologies

TITLE:

Power Supply
SM/SR

REV
1

SCALE: 1:2

SHEET 1 OF 1

Accessories:

The most popular accessories for model D90050XFX 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:

LASERGLOW TECHNOLOGIES

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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.