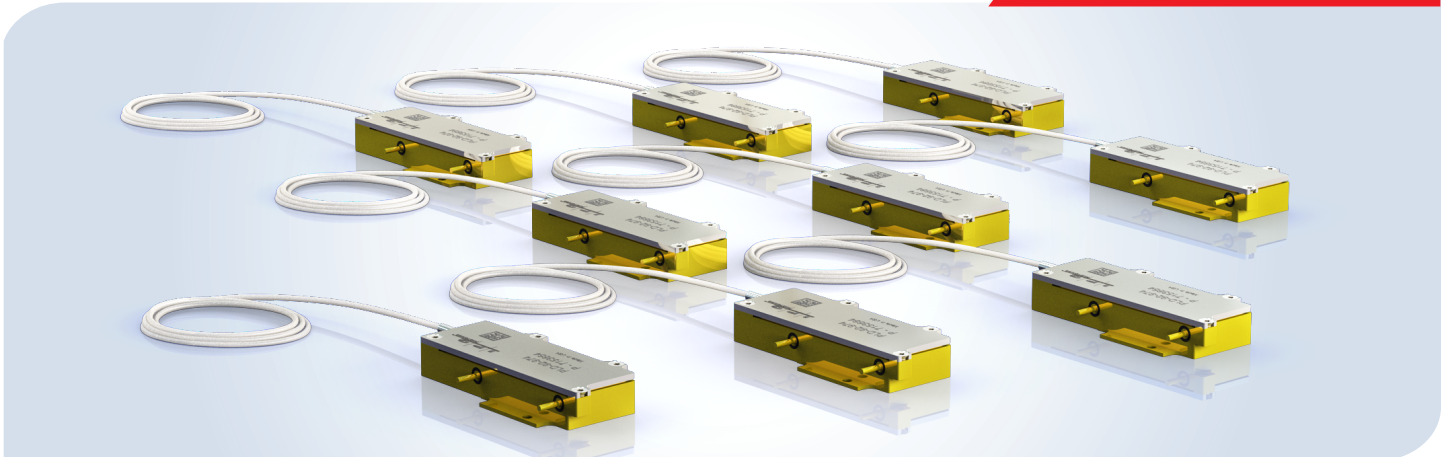


PLD-92 Series: 915-970 nm, 70 W

Multi-mode Fiber-coupled Diode Lasers

NEW PRODUCT



Applications

- ▶ Amplifier Pumping
- ▶ Laser Pumping
- ▶ Graphic Arts / Printing
- ▶ Illumination
- ▶ Direct Diode Lasers
- ▶ Material Processing
- ▶ Medical & Dental
- ▶ Photovoltaics

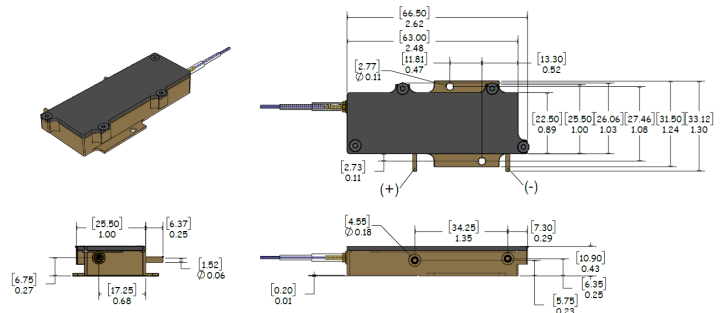


Features

- ▶ 915, 940, 970 nm Center Wavelengths
- ▶ 70 W Output Power
- ▶ High Reliability
- ▶ Robust Compact Package
- ▶ Wavelength Stabilization and Dichroic Options
- ▶ 0.15 NA into 105 or 110 μm Fiber Core Diameter

IPG Photonics' PLD-92 fiber-coupled diode lasers provide up to 70 W of output power within 0.15 NA. PLD-92 diode options include 105 μm or 110 μm fiber core diameter, and center wavelength at 915 nm, 940 nm or 970 nm. Wavelength stabilization and dichroic options are also available.

IPG's best-in-class diode technology offers an ideal combination of power, reliability and form factor. We manufacture to rigorous telecom-grade standards in the world's largest high power diode fab. Each wafer is individually qualified, which sets IPG apart from alternative industrial pump products using short-lived diode bars and bar-stack technologies. PLD-92 diode lasers are preferred for fiber amplifier and laser pumping, material processing, and direct diode applications.



PLD-92 Series: 915-970 nm, 70 W

Multi-mode Fiber-coupled Diode Lasers

Optical Characteristics ¹		PLD-92
Center Wavelength ² , nm		970
Center Wavelength Tolerance, nm		± 5
Output Power, W		70
Spectral Width (FWHM), nm		4
Slope Efficiency, W/A		5
Minimum Efficiency, %		50
Threshold Current (I_{TH}), A		1
Operating Current (I_{OP}), A		14
Forward Voltage, V		9.1
Recommended Case Temperature, °C		25
Wavelength Shift with Temperature, nm/°C		0.35
Wavelength Shift with Operating Current, nm/A		1

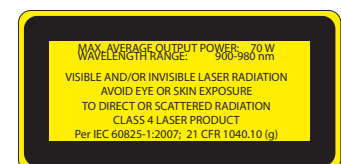
¹Typical performance data measured at 12A, 25°C.

²915 and 940 nm center wavelengths also available.

Fiber Characteristics	
Fiber Core Diameter, μm	105 or 110 options available
Fiber Cladding Diameter, μm	125
Fiber Buffer Diameter, μm	250
Beam Numerical Aperture (90% power)	0.15
Fiber Length, m	1.9
Minimum Fiber Bend Radius, mm	30

Maximum Ratings	
Operating Current (I_{OP}), A	14
Reverse Voltage, V	2.5
Case Temperature, °C	5 to 70
Storage Temperature, °C	-20 to 60
Lead Soldering Temperature (10 s max) °C	300
Relative Humidity, %	85

+1 (205) 307-6677
 sales.us@ipgphotonics.com
www.ipgphotonics.com



Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind IPG only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with use of a product or its application. IPG, IPG Photonics, The Power to Transform and IPG Photonics' logo are trademarks of IPG Photonics Corporation. © 2019 IPG Photonics Corporation. All rights reserved.

The Power to Transform®