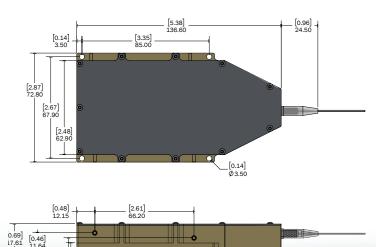


PLD-454-200-970-CHL Multi-mode Fiber-coupled Diode Lasers





FEATURES

- ▶ 970 nm Center Wavelength
- ▶ 380 W Output Power
- ▶ >50% Typical Wall-plug Efficiency
- ▶ Robust Compact Package
- Wavelength Stabilization and Dichroic Options
- ▶ 200 µm Core Fiber Diameter



APPLICATIONS

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

IPG Photonics **PLD-454-200-970-CHL** fiber-coupled diode lasers provide 380 W of output power at 20 A. The PLD-454 features a 200 µm fiber core diameter and a 970 nm center wavelength. Wavelength stabilization and dichroic options are available.

IPG best-in-class diode technology offers an ideal combination of power, reliability and form factor. At IPG, 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-454 diode lasers are the preferred solution for fiber amplifier and laser pumping, material processing and direct diode applications.

PLD-454-200-970-CHL Multi-mode Fiber-coupled Diode Lasers

Optical and Electrical Characteristics*	
Center Wavelength, nm	970
Center Wavelength Tolerance, nm	+/- 5
Output Power, W	380
Spectral Width (FWHM), nm	<0.3
Slope Efficiency, W/A	9
Efficiency, %	>50
Threshold Current (I _{тн}), А	2
Operating Current (I _{op}), A	20
Forward Voltage, V	Up to 36.7
Recommended Case Temperature, ºC	25
Wavelength Shift with Temperature, nm/ºC	0.35
Typical performance data measured at 20 A, 25ºC.	

200
227
900
<0.2
2
35

Maximum Ratings	
Operating Current (I _{oP}), A	30
Reverse Voltage, V	7.5
Case Temperature, ºC	5 - 70
Storage Temperature, °C	-20 to 60
Lead Soldering Temperature (10 s max) °C	300
Relative Humidity, %	85



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XX. AVERAGE OUTPUT POWER: 720 W WAVELENGTH RANGE: 900-1000 nm CLASS 1 LASER PRODUCT IEC 60825-11:2014