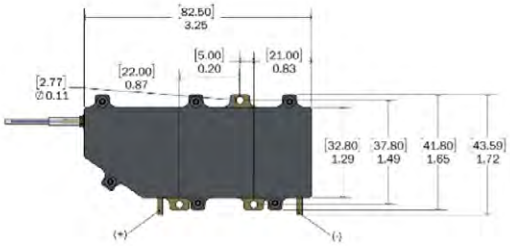
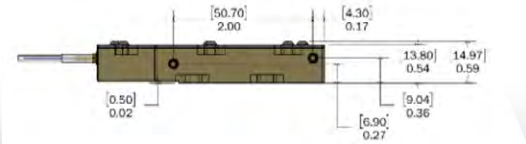
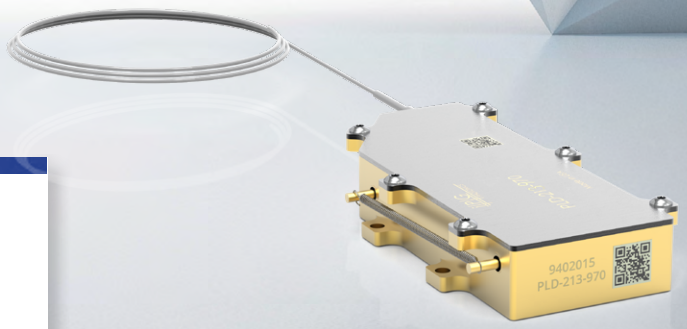
PLD-213-970-CH, 108 W

Multi-mode Fiber-coupled Diode Lasers







FEATURES

- 970 nm Center Wavelength
- Wavelength Stabilization and Dichroic Options
- 108 W Output Power
- 0.16 NA into 110 µm Fiber Core Diameter
- High Reliability
- Robust Compact Package

APPLICATIONS

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

IPG Photonics' **PLD-213-970-CH** fiber-coupled diode lasers provide up to 108 W of output power within 0.16 NA. PLD-213 diode features include a 110 µm fiber core diameter and 970 nm center wavelength. 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-213 diode lasers are preferred for fiber amplifier and laser pumping, material processing and direct diode applications.

PLD-213-970-CH, 108 W

Multi-mode Fiber-coupled Diode Lasers

Optical and Electrical Characteristics*	PLD-213-970-CH
Center Wavelength, nm	968.5
Center Wavelength Tolerance, nm	±5.5
Output Power, W (Typ./Min)	108/100
Wavelength Shift in Current Range 14 - 18 A, nm/A	0.55
Power Shift in Current Range 14 - 18 A, W/A	7.6
Spectral Width, nm	4±2
Threshold Current (I_{TH}), A	1.7
Operating Current (I_{OP}), A	14
Forward Voltage, V	<14.2
Recommended Case Temperature, ºC	25

* Typical performance data measured at 14A, 25ºC

Fiber Characteristics	
Fiber Core Diameter, µm	110
Fiber Cladding Diameter, µm	125
Fiber Buffer Diameter, µm	230
Typ./Max Beam Numerical Aperture (90% power)	0.16/0.18
Fiber Length, m	1.9
Minimum Fiber Bend Radius, mm	30

Maximum Ratings	
Operating Current (I_{OP}), A	18
Reverse Voltage, V	2.5
Case Temperature, ºC	5 - 70
Storage Temperature, ºC	-20 to 60
Lead Soldering Temperature (10 s max) ºC	300
Relative Humidity, %	85

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