PLD-212-970, 105 W
Multi-mode Fiber-coupled Diode Lasers

NEW PRODUCT

Applications

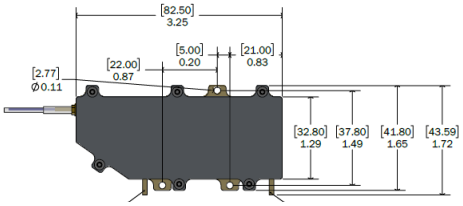
- Amplifier Pumping
- Laser Pumping
- Graphic Arts / Printing
- Illumination
- Direct Diode Lasers
- Material Processing
- Medical & Dental
- Photovoltaics

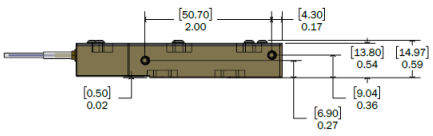
Features

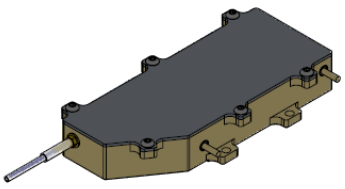
- 970 nm Center Wavelength
- 105 W Output Power
- High Reliability
- Robust Compact Package
- Wavelength Stabilization and Dichroic Options
- 0.16 NA into 110 µm Fiber Core Diameter

IPG Photonics' PLD-212 fiber-coupled diode lasers provide up to 105 W of output power within 0.16 NA. PLD-212 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-212 diode lasers are preferred for fiber amplifier and laser pumping, material processing and direct diode applications.







The Power to Transform®

PLD-212-970, 105 W
Multi-mode Fiber-coupled Diode Lasers

Optical and Electrical Characteristics[1]	PLD-212
Center Wavelength, nm	968
Center Wavelength Tolerance, nm	± 5
Output Power, W	105
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
Operating Voltage, V	13.3
Recommended Case Temperature, °C	25
Power Shift with Operating Current, W/A	7.4
Wavelength Shift with Operating Current, nm/A	0.5

[1]Typical performance data measured at 14A, 25°C.

Fiber Characteristics	
Fiber Core Diameter, µm	110
Fiber Cladding Diameter, µm	125
Fiber Buffer Diameter, µm	230
Beam Numerical Aperture (90% power)	0.16
Fiber Length, mm	190
Minimum Fiber Bend Radius, mm	30

Maximum Ratings	
Operating Current (I_{OP}), A	14
Reverse Voltage, V	7.5
Case Temperature, °C	5 to 70
Storage Temperature, °C	-20 to 60
Lead Soldering Temperature (10 s max) °C	300
Relative Humidity, %	85

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