

### PLD-212-975-WS: 975 nm 98 W

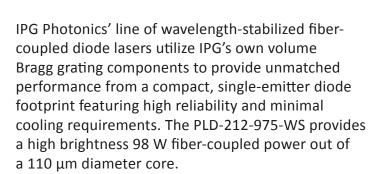
### Wavelength-stabilized Diode Laser





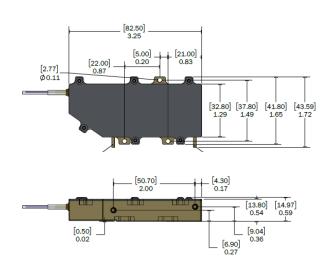
#### **Features**

- ▶ 975 nm center wavelength
- ➤ Tight +/-1.0 nm wavelength control
- ▶ 98 W maximum output power at 12 Amperes
- ► Compact fiber-coupled package
- Minimal cooling requirements



At IPG, we manufacture to rigorous telecom-grade standards in the world's largest high power diode fab. Each die is individually qualified, which sets IPG apart from alternative industrial pump products using short-lived diode bars and bar-stack technologies.







## PLD-212-975-WS: 975 nm 98 W

# Wavelength-stabilized Diode Laser

Optical and Electrical Characteristics*	
Center Wavelength, nm	975
Center Wavelength Tolerance, nm	±1
Output Power, W	98
Wavelength Shift with Current, nm/A	<0.03
Power Shift with Current, W/A	<7
Power in Band, %	>95
Threshold Current (I <sub>TH</sub> ), A	1
Operating Current $(I_{OP})$ , A	12
Forward Voltage, V	<13.5
Recommended Case Temperature, °C	25

<sup>\*</sup> Typical performance data measured at 12 A, 25°C.

Fiber Characteristics	
Fiber Core Diameter, μm	110
Fiber Cladding Diameter, μm	125
Fiber Buffer Diameter, μm	250
Beam Numerical Aperture (90% power)	<0.18
Fiber Length, m	1.9
Minimum Fiber Bend Radius, mm	30

Maximum Ratings	
Operating Current (I <sub>OP</sub> ), A	14
Reverse Voltage, V	2.5
Case Temperature, °C	5 - 70
Storage Temperature, °C	-20 to 60
Lead Soldering Temperature (10 s max) °C	300
Relative Humidity. %	85

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