

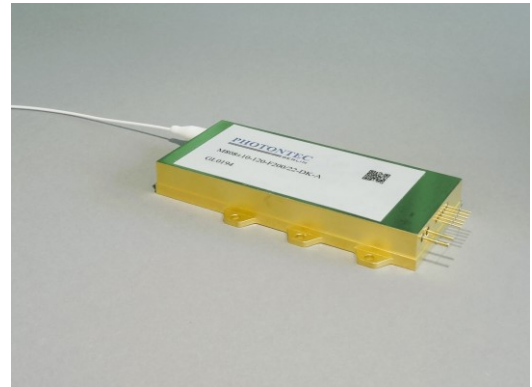
### 976nm Wavelength-stabilized Diode Laser

#### Features

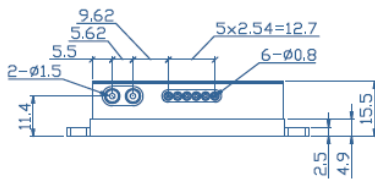
- Minimum 200W CW power
- Narrow linewidth
- Feedback protection for fiber laser

#### Applications

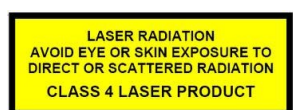
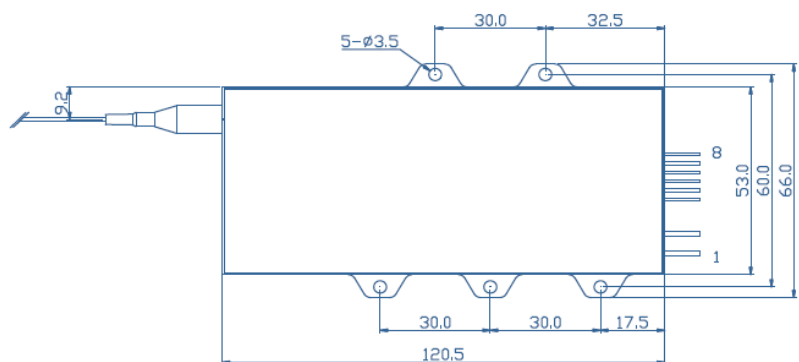
- Fiber laser pumping



#### Package Dimension (mm)



|   |                     |
|---|---------------------|
| 1 | Laser Diode Anode   |
| 2 | Laser Diode Cathode |
| 3 | -                   |
| 4 | -                   |
| 5 | Photodiode Cathode  |
| 6 | Photodiode Anode    |
| 7 | Thermistor          |
| 9 | Thermistor          |



### Module Specifications

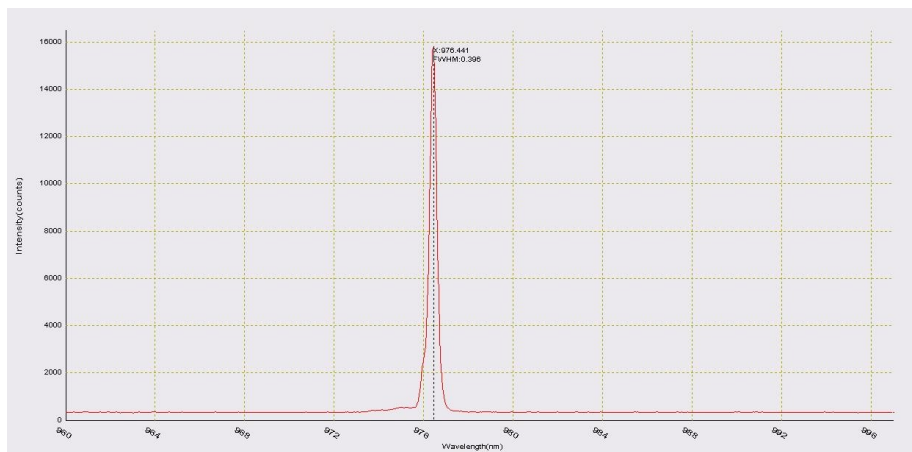
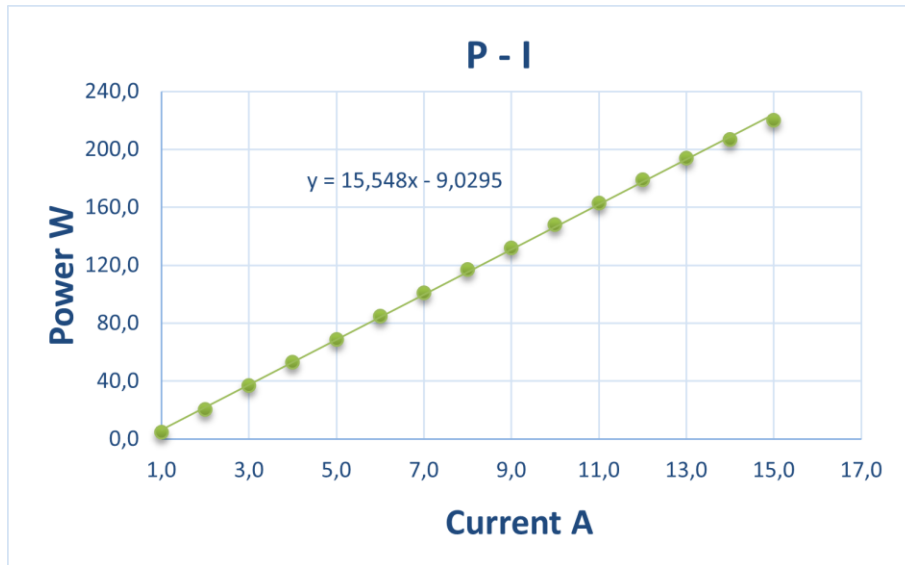
| Model                             | M976±0.5-200-F200/22-DK-P |       |           |       |
|-----------------------------------|---------------------------|-------|-----------|-------|
| Optical                           | Unit                      | Min   | Typical   | Max   |
| Output power (exit fiber)         | W                         |       | 200       | 220   |
| Central wavelength                | nm                        | 975.5 | 976.0     | 976.5 |
| Spectral width (FWHM)             | nm                        |       | 0.5       | 1.0   |
| Feedback protection (1030-1100nm) | dB                        |       | 40        |       |
| <b>Fiber Pigtail</b>              |                           |       |           |       |
| Fiber core diameter               | µm                        |       | 200       |       |
| Fiber cladding diameter           | µm                        |       | 220       |       |
| Numerical aperture                | -                         |       | 0.22      |       |
| Fiber length                      | M                         |       | 2         |       |
| <b>Electric</b>                   |                           |       |           |       |
| Threshold current                 | A                         |       | 1.0       |       |
| Operating current                 | A                         |       | 15.0      | 16.0  |
| Operating voltage                 | V                         |       | 28.3      | 28.6  |
| Slope efficiency                  | W/A                       |       | 15.0      |       |
| Power conversion efficiency       | %                         | 45    | 50        |       |
| <b>Absolute ratings</b>           |                           |       |           |       |
| Operating temperature *           | °C                        |       |           | 40    |
| Operating humidity                | %                         |       |           | 75    |
| Storage temperature               | °C                        | -20   |           | 80    |
| Soldering temperature             | °C                        |       | 250 (10s) |       |

\* Internal thermistor reading

- Notes:
1. Module specifications and dimension are subject to change without notice.
  2. ESD precautions must be taken.
  3. The minimum fiber bend diameter should be 300 times greater than the fiber core diameter.
  4. Reduced lifetime if improperly used or used above operating conditions.
  5. A non-condensing environment is required for storage and operation below the ambient dew point.

**Compliance with Regulatory Requirements:** This industrial laser is an OEM version of a laser diode. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.





LASER RADIATION  
 AVOID EYE OR SKIN EXPOSURE TO  
 DIRECT OR SCATTERED RADIATION  
 CLASS 4 LASER PRODUCT