# BDL 130-808-F4-F
Fiber coupled laser diode module

**FEATURES**
- High Brightness
- Integrated Industrial Design
- Passively Cooled
- Long Lifetime
- Small Footprint
- High Reliability
- CE Compliant

## Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW Output Power(^{(1)})</td>
<td>130</td>
<td>135</td>
<td>W</td>
</tr>
<tr>
<td>Center Wavelength(^{(2)})</td>
<td>805</td>
<td>808</td>
<td>nm</td>
</tr>
<tr>
<td>Center Wavelength Tolerance</td>
<td>± 3 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectral Width (FWHM)</td>
<td>4</td>
<td>6</td>
<td>nm</td>
</tr>
<tr>
<td>Operating Temperature(^{(3)})</td>
<td>15</td>
<td>25</td>
<td>°C</td>
</tr>
<tr>
<td>Wavelength Coefficient</td>
<td>0.27</td>
<td>0.30</td>
<td>nm/°C</td>
</tr>
<tr>
<td>Fiber Connector</td>
<td>SMA-905</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiber Core Diameter NA</td>
<td>400</td>
<td>0.22</td>
<td>µm</td>
</tr>
<tr>
<td>Built-In Thermistor NTC – 10kOhm – 25°C(^{(4)})</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Current</td>
<td>58</td>
<td>62</td>
<td>A</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>5.1</td>
<td>5.4</td>
<td>V</td>
</tr>
<tr>
<td>Cooling</td>
<td>Conductive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electro-Optical Efficiency</td>
<td>33%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage temperature(^{(5)})</td>
<td>0 : 60</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>&lt;95% non condensing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^{(1)}\) Output power archive at nominal current, out of a 2m long power optical fiber  
\(^{(2)}\) At nominal current and nominal temperature on internal NTC thermistor  
\(^{(3)}\) Measured on internal thermistor.  
\(^{(4)}\) Temperature coefficient \(B_{\text{NTC}}=3988 \pm 1\%\), Resistance tolerance ± 2%  
\(^{(5)}\) Storage and shipping of diode lasers must be done with shortened electrical contacts and in a clean non condensing environment

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Update data sheets can be provided after formal request.  
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Fiber coupled laser diode module

Options Available:
- Red Aiming Beam
- Monitoring Photodiode
- Alternative PT100 thermistor
- Integrated TE Coolers
- Fiber Sensors

Applications:
- Solid State Laser pumping
- Fiber-lasers pumping
- Soldering and Welding
- Medical
- Illumination
- Material Processing

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