# 808 nm laser diode

**10 W / 105 µm fiber**

Reference: 808LD-2-0-0  
Technology: Single-element multimode

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>Unit</th>
<th>Min</th>
<th>Typ</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical parameters</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Output Power</td>
<td>W</td>
<td>10</td>
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</tr>
<tr>
<td>Center Wavelength</td>
<td>nm</td>
<td>805</td>
<td>808</td>
<td>811</td>
</tr>
<tr>
<td>Spectral Width (FWHM)</td>
<td>nm</td>
<td></td>
<td>3.5</td>
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<tr>
<td>Threshold Current</td>
<td>A</td>
<td>0.2</td>
<td>0.5</td>
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</tr>
<tr>
<td>Operating Current</td>
<td>A</td>
<td>3.5</td>
<td>4.0</td>
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<tr>
<td>Operation Voltage</td>
<td>V</td>
<td>5.5</td>
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<tr>
<td>Conversion Efficiency</td>
<td>%</td>
<td>45</td>
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<tr>
<td>95% power with NA</td>
<td>NA</td>
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<tr>
<td>Wavelength shift w Temperature</td>
<td>nm/°C</td>
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<td>0.3</td>
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<tr>
<td>Wavelength shift with current</td>
<td>nm/A</td>
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<td>0.6</td>
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<tr>
<td>Slope Efficiency</td>
<td>W/A</td>
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<tr>
<td>Storage Temperature</td>
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<td>-30</td>
<td>25</td>
<td>70</td>
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<td>Case Operating Temperature</td>
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<td>15</td>
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<tr>
<td>Minimum Fiber Bend Radius</td>
<td>mm</td>
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<td>37.5</td>
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<tr>
<td>Fiber Buffer/tube Diameter</td>
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<td>250</td>
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<tr>
<td>Fiber Clad Diameter</td>
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<td>125</td>
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<tr>
<td>Fiber Core Diameter</td>
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<td>Numerical Aperture</td>
<td>NA</td>
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<td>Soldering Temperature</td>
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<td>Soldering time</td>
<td>s</td>
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<td>Fiber connector</td>
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<td>Yes (SMA)</td>
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<td>ROHS Compliant</td>
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</table>

Please solder the pins when the level of current is over 6A

**Form factor:**

*Small form factor coupled in a 200 µm fiber (specifications may vary for this model)*  
*Large form factor coupled in a 105 µm fiber*