1470nm, 400µm, Conduction-Cooled, Fiber-Coupled, Two-Bar Module

**Features**
- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Water manifold for water cooling

**Optional Accessories**
- Integrated pointer laser and power meter
- Integrated temperature sensor
- Fiber interlock
- TE adapter for thermo electric cooling
- Exchangeable protection window

**Device Specification**

### Optical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength Range</td>
<td>nm</td>
<td>1470</td>
</tr>
<tr>
<td>Center Wavelength Tolerance</td>
<td>nm</td>
<td>±20</td>
</tr>
<tr>
<td>Output Power</td>
<td>W</td>
<td>30</td>
</tr>
<tr>
<td>Spectral Width (FWHM)</td>
<td>nm</td>
<td>&lt;15</td>
</tr>
<tr>
<td>Slope Efficiency</td>
<td>W/A</td>
<td>&gt;0.7</td>
</tr>
<tr>
<td>Wavelength Temp. Coefficient</td>
<td>nm/°C</td>
<td>~0.58</td>
</tr>
</tbody>
</table>

### Fiber Parameters

- Numerical Aperture: NA 0.22
- Fiber Core Diameter: µm 400
- Fiber Connector: HP-SMA 905 with Free Standing Fiber Tips

### Electrical Parameters

- Power Conversion Efficiency: % >20
- Threshold Current (I<sub>th</sub>): A <11
- Operating Current (I<sub>op</sub>): A <60
- Operating Voltage (V<sub>op</sub>): V <3

### Thermal Parameters

- Operating Temperature<sup>1, 3, 4</sup> (Cooling Plate): °C +20 to +25
- Operating Temperature<sup>1, 3, 4</sup> (Diode Laser Module): °C +30 to +35
- Storage Temperature<sup>1, 4</sup>: °C 0 to +55
- Coolant Flow Rate: l/h 150 to 200
- Operating Water Temperature: °C +20 to +25
- Maximum Particle Size: µm <10
- Recommended Cooling Capacity: W >150

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1 Data at 25°C cold plate temperature, unless otherwise stated.
2 Reduced lifetime if used above nominal operating conditions.
3 Others available upon request.
4 A non-condensing environment is required for storage and operation below the ambient dew point.
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Package Dimension