1210nm, 400µm, Conduction-Cooled, Fiber-Coupled Multi-Bar Module

Features
- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Scalable output power
- Straight fiber output (0°) or 90°
- User exchangeable blast shield

Optional Accessories
- Integrated pointer laser
- Integrated monitor photo diode
- Integrated NTC temperature sensor
- Fiber detection sensor

Device Specification

<table>
<thead>
<tr>
<th>Optical Parameters 1</th>
<th>Units</th>
<th>Center Wavelength Range 3</th>
<th>nm</th>
<th>1210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength Tolerance</td>
<td>nm</td>
<td>±25</td>
<td></td>
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<tr>
<td>Output Power 2</td>
<td>W</td>
<td>40</td>
<td></td>
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<tr>
<td>Spectral Width (FWHM)</td>
<td>nm</td>
<td>&lt;10</td>
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<tr>
<td>Slope Efficiency</td>
<td>W/A</td>
<td>&gt;0.9</td>
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<tr>
<td>Wavelength Temp. Coefficient</td>
<td>nm/°C</td>
<td>~0.4</td>
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</tbody>
</table>

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

Electrical Parameters 1
- Power Conversion Efficiency % 20
- Threshold Current (I_TH) A <11
- Operating Current (I_OP) A <50
- Operating Voltage (V_OP) V <4

Thermal Parameters 3, 4
- Operating Temperature (Cooling Plate) °C +20 to +25
- Operating Temperature (Diode Laser Module) °C +30 to +35
- Storage Temperature 3, 4 °C 0 to +55
- Coolant Flow Rate l/h 200 to 300
- Operating Water Temperature °C +20 to +25
- Maximum Particle Size µm <10
- Recommended Cooling Capacity W >160

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

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