976 nm, Conduction-Cooled Single Bar, Narrow Linewidth, Fiber-Coupled Module

**Features**
- Narrow linewidth of <0.5 nm
- High coupling efficiency
- High brightness
- Conduction-cooled
- Sealed housing
- Standard fiber coupling (HP-SMA) for 200 µm and 400 µm, NA 0.22

**Optional Accessories**
- Monitor photo diode

**Device Specification**

<table>
<thead>
<tr>
<th>Optical Parameters</th>
<th>Units</th>
<th>976 nm</th>
<th>±0.6 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength Range</td>
<td>nm</td>
<td>976</td>
<td>±0.6</td>
</tr>
<tr>
<td>Center Wavelength Tolerance</td>
<td>nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>W</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Spectral Width (FWHM)</td>
<td>nm</td>
<td></td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Slope Efficiency</td>
<td>W/A</td>
<td>&gt;0.5</td>
<td>&gt;0.5</td>
</tr>
<tr>
<td>Wavelength Temp. Coefficient</td>
<td>nm/°C</td>
<td></td>
<td>~0.01°</td>
</tr>
</tbody>
</table>

**Fiber Parameters**
- Numerical Aperture: NA 0.22
- Fiber Core Diameter: µm 200 400
- Fiber Connector: HP-SMA 905 with Free Standing Fiber Tips

**Electrical Parameters**
- Power Conversion Efficiency: % >35 >35
- Threshold Current ($I_{th}$): A <7.5 <7.5
- Operating Current ($I_{op}$): A <55 <70
- Operating Voltage per Bar ($V_{op}$): V <1.9

**Thermal Parameters**
- Operating Temperature: °C +20 to +30
- Storage Temperature: °C 0 to +55
- Recommended Heatsink Capacity: W >80 >100

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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.
5. Within operating temperature ±3°C.
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Package Dimension

Module M1F-SS2.4