Conduction Cooled Laser Diode Package

**CS-Mount 780-830nm**

**Features:**
- Improved cooling efficiency
- “Smile” effect < 0.5 µm
- Central wavelength on demand

**Suitable for:**
- Hair removal
- Surgical cardiology
- Ophthalmology
- Interstitial laser induced thermotherapy (Cancer)
- Odontology
- Material processing
- Printing

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**CS-Mount 780-830nm | 1 bar package**

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**CS-MOUNT / 780 - 830nm**

Product specification are subject to change without notice. For complete details, please contact your local MONOCROM sales representative.

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UNE EN ISO 9001:2008
**CS-Mount λ780-830nm** | TECH Specifications

### Laser Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>conduction cooled mount</td>
</tr>
<tr>
<td>Wavelength$^{(1)}$ [nm]</td>
<td>780 - 830</td>
</tr>
<tr>
<td>Wavelength tolerance [nm]</td>
<td>±20</td>
</tr>
<tr>
<td>Spectral width [nm]</td>
<td>3</td>
</tr>
<tr>
<td>Wavelength shift [nm/K]</td>
<td>0.27</td>
</tr>
<tr>
<td>Output power$^{(2,3)}$ [W]</td>
<td>CW - up to 100 / QCW - up to 500</td>
</tr>
<tr>
<td>Operating current [A]</td>
<td>CW &lt; 120 / QCW &lt; 480</td>
</tr>
<tr>
<td>Efficiency coefficient [W/A]</td>
<td>1.2</td>
</tr>
<tr>
<td>Voltage @ connectors$^{(4)}$ [V]</td>
<td>2</td>
</tr>
<tr>
<td>Optics (optional)</td>
<td>FAC / SAC / BT</td>
</tr>
<tr>
<td>Smile [µm]</td>
<td>&lt; 0.3</td>
</tr>
</tbody>
</table>

1. Other wavelengths on request.
2. Expected output power. Can varies based on current and temperature.
3. Specification are subjected to chips availability.
4. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.

### Solder-free Diode Bar Mounting - Patented Clamping™ Technology

- Long lifetime
- High reliability
- No micro channels needed
- Small thermal resistance

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