980 nm laser diode & Turn-key solutions

AeroDIODE

www.aerodiode.com
980 nm laser diode

Choose your own fiber-coupled laser diode + turn-key Driver solution

Standard singlemode or multimode laser diodes are sourced from the most reliable manufacturers and offered as stock items or associated with a CW or pulsed turn-key laser diode driver.

1st
Choose your laser diode:

<table>
<thead>
<tr>
<th>Diode type</th>
<th>Power (CW)</th>
<th>Power (Pulse)</th>
<th>Technology</th>
<th>Wavelength (nm)</th>
<th>Fiber</th>
<th>Emission Bandwidth (Typ)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>350 mW</td>
<td>1000 mW</td>
<td>Butterfly single mode</td>
<td>981±0.5nm</td>
<td>PM 980</td>
<td>~0.1 nm</td>
<td>14 pin Butterfly-type 1</td>
</tr>
<tr>
<td>2</td>
<td>750 mW</td>
<td>1200 mW</td>
<td>Multimode single emitter</td>
<td>980 ± 10 nm</td>
<td>Multimode</td>
<td>106 µm/NA=0.22</td>
<td>50<em>5.5</em>7.7</td>
</tr>
<tr>
<td>3</td>
<td>10 W</td>
<td>10 W</td>
<td>Multimode single emitter</td>
<td>980 ± 10 nm</td>
<td>Multimode</td>
<td>106 µm/NA=0.22</td>
<td>43<em>25</em>10.6</td>
</tr>
<tr>
<td>4</td>
<td>30 W</td>
<td>30 W</td>
<td>Multimode multi emitter</td>
<td>980 ± 10 nm</td>
<td>Multimode</td>
<td>106 µm/NA=0.22</td>
<td>80<em>48</em>16</td>
</tr>
<tr>
<td>5</td>
<td>70 W</td>
<td>70 W</td>
<td>Multimode multi emitter</td>
<td>980 ± 10 nm</td>
<td>Multimode</td>
<td>106 µm/NA=0.22</td>
<td>80<em>80</em>24.8</td>
</tr>
<tr>
<td>6</td>
<td>150 W</td>
<td>150 W</td>
<td>Multimode multi emitter</td>
<td>980 ± 10 nm</td>
<td>Multimode</td>
<td>106 µm/NA=0.22</td>
<td>80<em>80</em>24.8</td>
</tr>
</tbody>
</table>

2nd
Choose your Driver performance:

<table>
<thead>
<tr>
<th>Laser Driver Version</th>
<th>CW Driver (for singlemode diodes)</th>
<th>Pulse &amp; CW Driver (from 1 ns to CW)</th>
<th>User design pulse shape Driver</th>
<th>Multimode diode Driver (High power driver for 10 to 150 W diodes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- single mode 300 mW</td>
<td>350 mW / No</td>
<td>350 mW / 1000 mW</td>
<td>No / 1000 mW</td>
<td>Not compatible</td>
</tr>
<tr>
<td>2- single mode 600 mW</td>
<td>750 mW / No</td>
<td>750 mW / 1200 mW</td>
<td>No / 1200 mW</td>
<td>10 W / 10 W</td>
</tr>
<tr>
<td>3-6: Multimode 10 W/30 W/70 W or 150 W</td>
<td>Not compatible</td>
<td>10 W / 10 W</td>
<td>30 W / 30 W</td>
<td></td>
</tr>
</tbody>
</table>

3rd
Choose your product form factor: OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:

- CCS-CW
- CCS-std/HP
- CCS-std/HP
- Open-frame driver for «Shaper» electronic Board and single mode diodes
- Open-frame driver for CW, std and HP electronics Boards for single mode diodes
- «CCM» Open-frame driver for Multimode diodes

INTEGRATED VERSIONS:

- CCSI-CW/ std/HP/HPP
- Integrated version for Shaper electronics Board
- Integrated version for CW, std and HP electronics Boards
- «CCMI» Turn-Key driver for Multimode diodes

AeroDIODE

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Technical Specifications

**GUI (examples)**

**Mechanical (examples):**

**Classification:**

<table>
<thead>
<tr>
<th>Name</th>
<th>980LD</th>
</tr>
</thead>
</table>
| Diode type | 1: 350 mW Butterfly singlemode  
2: 750 mW Butterfly singlemode  
3: 10 W multimode  
4: 30 W multimode  
5: 70 W multimode  
6: 150 W multimode |

| Driver Electronics | 0: No driver (laser diode only)  
1: CW driver (for CW laser emission only)  
2: Pulse and CW driver  
3: SHAPER (User design temporal pulse shape)  
4: High Power (for multimode diodes) |

| Form Factor | 0: No driver (laser diode only)  
1: Open  
2: Integrated |

**Ordering information:**

980LD - [ ] - [ ] - [ ]

<table>
<thead>
<tr>
<th>Diode type</th>
<th>Driver type</th>
<th>Form Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 3</td>
<td>0, 1, 2</td>
<td>0, 1, 2</td>
</tr>
<tr>
<td>4, 5, 6</td>
<td>2, 3, 4</td>
<td></td>
</tr>
</tbody>
</table>