SLD Light Source Desktop

Part Number: IPSDM1506-xxxx

1. Configuration

![Diagram of SLD Light Source Desktop Configuration]

Figure 1  Configuration of IPSDM1506-xxxx SLD light source desktop

2. Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>100</td>
<td>-</td>
<td>240</td>
<td>VAC</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40</td>
<td>-</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10</td>
<td>-</td>
<td>100</td>
<td>%</td>
</tr>
</tbody>
</table>

3. Recommended Operational Condition

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>10</td>
<td>25</td>
<td>35</td>
<td>°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>30</td>
<td>60</td>
<td>75</td>
<td>%</td>
</tr>
</tbody>
</table>
4. Optical characteristics

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength (at center of FWHM)</td>
<td>1500 1520 1540 nm</td>
<td>nm</td>
<td>@ 25°C, CW optical output and optical connector included.</td>
</tr>
<tr>
<td>3dB Optical Bandwidth</td>
<td>70 75 - nm</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Optical Output Power</td>
<td>8 10 - mW</td>
<td>mW</td>
<td></td>
</tr>
<tr>
<td>ASE Ripple @ 0.1nm</td>
<td>- 0.15 0.5 dB</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Optical Power Stability (8hr)</td>
<td>- - ±0.1 dB</td>
<td>dB</td>
<td>Stability test of P_max after 0.5 hour warm up at 25°C</td>
</tr>
<tr>
<td>Optical Interface</td>
<td>FC Female Adapter</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fiber Connector</td>
<td>FC/APC</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Optical Isolator</td>
<td>None included</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fiber type</td>
<td>SMF/PMF/MMF</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

5. Electrical characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Control</td>
<td>Current control for SLD</td>
<td>-</td>
<td>Press keyboard in the front panel manually, or via RS232 by computer.</td>
</tr>
<tr>
<td>SLD Drive Current Monitor</td>
<td>SLD drive current display on Screen</td>
<td>-</td>
<td>Or get data through RS232.</td>
</tr>
<tr>
<td>Keyboard lock</td>
<td>Lock &amp; Key switch for front panel buttons’ activation</td>
<td>-</td>
<td>A keyboard disable switch in the rear panel.</td>
</tr>
<tr>
<td>Connector for RS232</td>
<td>DB9 Connector, Male.</td>
<td>-</td>
<td>In the rear panel</td>
</tr>
<tr>
<td>Connector for Control</td>
<td>DB9 Connector, Female.</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
6. Physical Dimensions and Mechanical Specifications

Size: 344mm(W)×260mm(D)×90mm(H)

Figure 2  Mechanical drawing of IPSDM1506-xxx8 SLD light source desktop
7. Part Numbering Structure of SLD light source desktop

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Fiber Type</th>
<th>Connector Type</th>
<th>Output Type</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>07**: 700~790nm SLD</td>
<td>1: SM Fiber</td>
<td>0: No Connectors</td>
<td>0: FC Adaptor</td>
<td>8: 344×260×90mm case</td>
</tr>
<tr>
<td>08**: 800~890nm SLD</td>
<td>2: PM Fiber</td>
<td>3: FC/APC</td>
<td>1: Pigtail fiber</td>
<td>9: 450×300×90mm case</td>
</tr>
<tr>
<td>09**: 900~990nm SLD</td>
<td>3: MM Fiber</td>
<td>4: FC/UPC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10**: 1010~1090nm SLD</td>
<td></td>
<td>7: SC/APC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13**: 1300~1390nm SLD</td>
<td></td>
<td>8: SC/UPC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14**: 1400~1490nm SLD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15**: 1500~1590nm SLD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: IPSDM0701-0318: 700nm-type SLD light source desktop in 344×260×90mm case with FC adaptor output, 900μm SM fiber with FC/APC connector.