SLD Light Source Desktop

Part Number: IPSDM0704-xxxx

1. Configuration

Figure 1  Configuration of IPSDM0704-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>740 750 770 nm</td>
<td>nm</td>
<td>@ 25°C, CW optical output and optical connector included.</td>
</tr>
<tr>
<td>3dB Optical Bandwidth</td>
<td>18 20 - nm</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Optical Output Power</td>
<td>3 5 - mW</td>
<td>mW</td>
<td></td>
</tr>
<tr>
<td>ASE Ripple @ 0.1nm</td>
<td>- 0.1 0.15 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 Power Stability (8hr)</td>
<td>- ±0.1 dB</td>
<td>dB</td>
<td></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 IPSDM0704-XXX8 SLD light source desktop
7. Part Numbering Structure of SLD light source desktop

**Model Number**
- 07**: 700~790nm SLD
- 08**: 800~890nm SLD
- 09**: 900~990nm SLD
- 10**: 1010~1090nm SLD
- 13**: 1300~1390nm SLD
- 14**: 1400~1490nm SLD
- 15**: 1500~1590nm SLD

**Output Type**
- 0: FC Adaptor
- 1: Pigtail fiber

**Connector Type**
- 0: No Connectors
- 3: FC/APC  4: FC/UPC
- 7: SC/APC  8: SC/UPC

**Fiber Type**
- 1: SM Fiber
- 2: PM Fiber
- 3: MM Fiber

**Case Size**
- 8: 344×260×90mm case
- 9: 450×300×90mm case

**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.

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