Superlum Broadlighters
D-810-HP: 100 nm FWHM Light Source at 810 nm

Applications:
- Optical coherence tomography
- Optical metrology
- Optical measurements

Features:
- Wide optical spectrum: 100-nm FWHM
- Coherence length* of less than 4.5 µm (in air)
- High output power
- Low Relative Intensity Noise (RIN)

* Coherence length is determined as full width at half maximum of the coherence function plotted versus mirror displacement.

Specifications:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>P/N</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM-fiber output power, mW</td>
<td>D-810-HP</td>
<td>10.0</td>
<td>12.0</td>
<td>-</td>
</tr>
<tr>
<td>Mean wavelength, nm</td>
<td>All</td>
<td>800</td>
<td>-</td>
<td>820</td>
</tr>
<tr>
<td>Bandwidth (FWHM), nm</td>
<td>All</td>
<td>95</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>Residual spectral modulation depth (0.05 nm resolution), %</td>
<td>All</td>
<td>-</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Spectral flatness, %</td>
<td>All</td>
<td>-</td>
<td>-</td>
<td>40</td>
</tr>
<tr>
<td>Long-term stability, %**</td>
<td>All</td>
<td>±0.5</td>
<td></td>
<td></td>
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<tr>
<td>Short-term stability, %***</td>
<td>All</td>
<td>±0.1</td>
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</tr>
</tbody>
</table>

** Measurements taken every minute for 8 hours with 100 ms integration time.
*** Measurements taken every second for 15 minutes with 100 ms integration time.

All measurements were taken after a one-hour warm-up period at an ambient temperature of 22 ± 0.5 °C.

Power requirements: 110 V AC or 220 V AC, 50/60 Hz

Operating temperature range: 0 °C to +40 °C

Optical output: FC/APC

Fiber: Corning HI 780

A maximum feedback of −30 dB (10⁻³) is allowed to run Broadlighter D-810-HP safely at full power.

All specifications are subject to change without notice.