Features:
- Output power of up to 15 mW
- LD-like spatial brightness, single transverse mode output
- Bell-shaped LED-like spectrum with very small ripples

Applications:
- Optical sensors
- Optical coherence tomography
- Optical measurements
- Atomic force microscopy
- Low speckle illumination
- Others

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ.</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power, P, mW</td>
<td>–</td>
<td>–</td>
<td>15</td>
</tr>
<tr>
<td>Forward current P, mA</td>
<td>–</td>
<td>160</td>
<td>–</td>
</tr>
<tr>
<td>Forward voltage, V</td>
<td>–</td>
<td>–</td>
<td>3.0</td>
</tr>
<tr>
<td>Central wavelength*, nm</td>
<td>660</td>
<td>670</td>
<td>680</td>
</tr>
<tr>
<td>Spectrum width at, FWHM, nm</td>
<td>6.0</td>
<td>7.5</td>
<td>–</td>
</tr>
<tr>
<td>Residual spectral modulation depth, %</td>
<td>–</td>
<td>2.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Secondary coherence subpeaks, dB (10 log)</td>
<td>–</td>
<td>&lt;−20</td>
<td>–</td>
</tr>
<tr>
<td>Polarization ratio (PM modules), dB</td>
<td>–</td>
<td>&gt;20</td>
<td>–</td>
</tr>
<tr>
<td>PD monitor photocurrent at P, µA</td>
<td>100</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Operating temperature, °C</td>
<td>–55</td>
<td>–</td>
<td>+55</td>
</tr>
<tr>
<td>Storage temperature, °C</td>
<td>–55</td>
<td>–</td>
<td>+85</td>
</tr>
<tr>
<td>Cooler current, A</td>
<td>–</td>
<td>–</td>
<td>1.2</td>
</tr>
<tr>
<td>Cooler voltage, V</td>
<td>–</td>
<td>–</td>
<td>3.5</td>
</tr>
</tbody>
</table>

* A central wavelength of 670 nm is not guaranteed. Contact Superlum representative if you require a tighter tolerance of central wavelength.

Additional & customized:
- PD monitors
- FC/APC terminated pigtails
- PM pigtails

The following part number should be used when ordering:

SLD-261-UHP-DBUT-(a)-PD-670,
where: (a) – type of fiber—SM (isotropic) or PM (polarization maintaining).


A maximum feedback of $10^{-3}$ is allowed to run UHP series SLDs safely at full power.

See the next page for performance examples ➔
TYPICAL PERFORMANCE EXAMPLES

SLD-261-UHP. Light-Current curve

Output power, mW

Forward current, mA

0 40 80 120 160 200
21 18 15 12 9 6 3 0

0.00 0.25 0.50 0.75 1.00

0.00 660 670 680 690

Wavelength, nm

Spectral intensity, a.u.

Examples demonstrate typical performance only.
Actual performance may vary from sample to sample and from lot to lot.
All specifications are subject to change without notice.

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