LOW NOISE RED DIODE LASER
AT 650/655nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in measurement, spectrum analysis, laser lighting show, etc.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Central wavelength (nm)</td>
<td>650±10/ 655±10</td>
</tr>
<tr>
<td>Operating mode</td>
<td>CW</td>
</tr>
<tr>
<td>Output power (mW)</td>
<td>&gt;1, 10, 20, …, 180</td>
</tr>
<tr>
<td>Power stability (rms, over 4 hours)</td>
<td>&lt;1%, &lt;2%, &lt;3% (&lt;0.5%, optional)</td>
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<tr>
<td>Transverse mode</td>
<td>Near TEM0</td>
</tr>
<tr>
<td>Noise of amplitude (rms, 20Hz–20MHz)</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>M² factor</td>
<td>&lt;1.5 (&lt;1.2, optional)</td>
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<tr>
<td>Beam diameter at the aperture (1/e², mm)</td>
<td>~3.0 (~1.2, optional)</td>
</tr>
<tr>
<td>Beam divergence, full angle (mrad)</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>Polarization ratio</td>
<td>&gt;50:1 (&gt;100:1, optional)</td>
</tr>
<tr>
<td>Pointing stability after warm-up (mrad)</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Beam height from base plate (mm)</td>
<td>24.8</td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>10–35</td>
</tr>
<tr>
<td>Power supply</td>
<td>PSU-III-LED/ PSU-III-FDA (Frequency for 1Hz–30kHz)</td>
</tr>
<tr>
<td>PSU-A-D (Frequency for 30kHz–100kHz)</td>
<td>TTL or Analog with 1Hz–1kHz, 1kHz–10kHz, 10kHz–30kHz, 30kHz–100kHz optional</td>
</tr>
<tr>
<td>TTL / Analog modulation</td>
<td>TTL or Analog with 1Hz–1kHz, 1kHz–10kHz, 10kHz–30kHz, 30kHz–100kHz optional</td>
</tr>
<tr>
<td>Expected lifetime (hours)</td>
<td>10000</td>
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<tr>
<td>Warranty</td>
<td>1 year</td>
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</tbody>
</table>

MLL-III-650L/655L/1~180mW

MLL-III-650L/655L

PSU-III-LED

PSU-III-FDA

PSU-A-D

143.5(L) × 73(W) × 46.2(H) mm³, 0.7kg

188.6 (L) × 155(W) × 92 (H) mm³, 1.5kg

171(L) × 130(W) × 62.2 (H) mm³, 1.2kg

162(L) × 144(W) × 70 (H) mm³, 1.0kg