**GDLM-A004R4D2IP**

**Key Features:**
- High Reliability
- Compactable size
- Auto Power Control
- Low Power Consumption
- Wide Operating Temperature

**Applications:**
- Surveying Equipment
- Laser Alignment & Pointing

## Optical Parameters

<table>
<thead>
<tr>
<th>Model Number</th>
<th>GDLM-A004R4D2IP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optical Parameters</strong></td>
<td><strong>Specs</strong></td>
</tr>
<tr>
<td><strong>Min</strong></td>
<td><strong>Typ</strong></td>
</tr>
<tr>
<td>Wavelength</td>
<td>531nm</td>
</tr>
<tr>
<td>Output Power</td>
<td>3.5mW</td>
</tr>
<tr>
<td>Power Stability</td>
<td>2 hours @ Constant Temp</td>
</tr>
<tr>
<td></td>
<td>Over Operating Temp Range</td>
</tr>
<tr>
<td>Operating Temperature (Case)</td>
<td>-</td>
</tr>
<tr>
<td>Residual IR</td>
<td>-</td>
</tr>
<tr>
<td>Beam Diameter</td>
<td>-</td>
</tr>
<tr>
<td>Beam Divergence</td>
<td>-</td>
</tr>
<tr>
<td>Roundness</td>
<td>70%</td>
</tr>
<tr>
<td>Warm Up Time</td>
<td>-</td>
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</tbody>
</table>

## Electrical Parameters

<table>
<thead>
<tr>
<th>Model Number</th>
<th>GDLM-A004R4D2IP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical Parameters</strong></td>
<td><strong>LD Working Current</strong></td>
</tr>
<tr>
<td></td>
<td><strong>LD Working Voltage</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Monitor Current</strong></td>
</tr>
<tr>
<td></td>
<td><strong>GDL Power Consumption</strong></td>
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</tbody>
</table>

## Mechanical Parameters

<table>
<thead>
<tr>
<th>Model Number</th>
<th>GDLM-A004R4D2IP</th>
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</thead>
<tbody>
<tr>
<td><strong>Mechanical Parameters</strong></td>
<td><strong>Laser Head Dimensions</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Diameter</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Beam Alignment Tolerance</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Angle</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Laser Weight</strong></td>
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</table>

## Reliability

<table>
<thead>
<tr>
<th>Model Number</th>
<th>GDLM-A004R4D2IP</th>
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<tbody>
<tr>
<td><strong>Reliability</strong></td>
<td><strong>Storage Temperature</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Shock</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Vibration</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Expected Lifetime (MTTF)</strong></td>
</tr>
</tbody>
</table>

Note:
- 0.5~5mW is optional
- 4mW at 25 °C
- 4mW at 25 °C

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**Rev. A**

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Typical Output Performance

Power & Operating Current vs Temperature

Power Stability

Dimensions and Pin Configuration (Unit: mm)

Pin Configurations:
1. LD-
2. None
3. LD+
4. PD+
5. PD-