Colors: Cool White, Neutral White, Warm White

The MTLR-WZ700-x miniature light ring is specifically designed for applications requiring high radiant power output in an extremely small circular footprint.

FEATURES
> Available in white (2,600 K to 10,000 K CCT)
> High Reliability
> Ring Size: 0.205” Outer Diameter

APPLICATIONS
> Analytical Instruments for Bio Chemical, Medical and Scientific Analysis
> General Illumination
> Endoscopy

Absolute Maximum Ratings (Ta = 25°C)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SYMBOL</th>
<th>RATINGS</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Current</td>
<td>IF</td>
<td>75</td>
<td>mA</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Tstg</td>
<td>-40 ~ +100</td>
<td>ºC</td>
</tr>
<tr>
<td>LED Junction Temperature</td>
<td>Tj</td>
<td>150</td>
<td>ºC</td>
</tr>
</tbody>
</table>

Recommended operating current is 60mA maximum.

*The Light Ring should be properly heat sunked for thermal dissipation.

**Maximum ratings are Package-dependent.

Electrical & Optical Characteristics (Ta = 25°C)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SYMBOL</th>
<th>CONDITIONS</th>
<th>MIN.</th>
<th>TYP</th>
<th>MAX.</th>
<th>UNIT</th>
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</thead>
<tbody>
<tr>
<td>Forward Voltage*</td>
<td>VF</td>
<td>IF=75mA</td>
<td>--</td>
<td>8.0</td>
<td>10.0</td>
<td>V</td>
</tr>
<tr>
<td>CCT Range (Cool White) 1</td>
<td>CCT</td>
<td>IF=75mA</td>
<td>5,000</td>
<td>--</td>
<td>10,000</td>
<td>K</td>
</tr>
<tr>
<td>CCT Range (Neutral White) 2</td>
<td>CCT</td>
<td>IF=75mA</td>
<td>3,700</td>
<td>--</td>
<td>5,000</td>
<td>K</td>
</tr>
<tr>
<td>CCT Range (Warm White) 3</td>
<td>CCT</td>
<td>IF=75mA</td>
<td>2,600</td>
<td>--</td>
<td>3,700</td>
<td>K</td>
</tr>
<tr>
<td>Luminous Flux (Cool White) 1</td>
<td></td>
<td>IF=75mA</td>
<td>47.4</td>
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<td>64.2</td>
<td>lm</td>
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<tr>
<td>Luminous Flux (Neutral White) 2</td>
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<td>IF=75mA</td>
<td>39.8</td>
<td>--</td>
<td>56</td>
<td>lm</td>
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<tr>
<td>Luminous Flux (Warm White) 3</td>
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<td>IF=75mA</td>
<td>33.2</td>
<td>--</td>
<td>51.8</td>
<td>lm</td>
</tr>
</tbody>
</table>

1 MTLR-WZ700-C
2 MTLR-WZ700-N
3 MTLR-WZ700-W

* 3 die in series
The following tables describe the available colors and flux for WZ chips by listing the correlated color temperature or dominant wavelength range for the entire family and by providing several base order codes.

### Cool White

- **CCT Range**: 5,000 K to 10,000 K
- **Base Order Codes**
  - P3: 73.9
  - Q2: 87.4
  - Q3: 93.9
  - Q4: 100

### Neutral White

- **CCT Range**: 3,700 K to 5,000 K
- **Base Order Codes**
  - N4: 62
  - P2: 67.2
  - P3: 73.9
  - P4: 80.6
  - Q2: 87.4

### Warm White

- **CCT Range**: 2,600 K to 3,700 K
- **Base Order Codes**
  - N2: 51.7
  - N3: 56.8
  - N4: 62
  - P2: 67.2
  - P3: 73.9
  - P4: 80.6

### Color Standards

- **Cool White**: CW-P3Q4-WZ700-S01-2
  - WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP
  - P3, P4, Q2, Q3, Q4

- **Neutral White**: E3-P2Q2-WZ700-S01-2
  - 3A, 3B, 3C, 3D, 3R, 3S, 3T
  - P2, P3, P4, Q2

- **Warm White**: E6-N3P4-WZ700-S01-2
  - 6A, 6B, 6C, 6D, 6R, 6U, 6S, 6T
  - N3, N4, P2, P3, P4
Circuit Diagram

Board Dimensions

Board Material: Aluminium Core
Board Thickness: 0.031"
Overall Ring Thickness: 0.038" +/-0.005"

All Dimensions are +/-0.005"