LUMAWISE LED Holders

Type Z50 LED holder for CREE CXA Arrays

The TE Solderless LED Holder, Type Z50, is a circular LED holder that provides a quick and easy solderless connection to the CREE CXA arrays. TE’s Type Z50 holder allows the direct attachment of CREE CXA LEDs to a heat sink using standard screws, which enables designs to be easier to use, and faster to market. The Type Z50 reduces assembly costs and provides a quality solderless power connection, secure mechanical attachment, proper thermal hold down forces, and a landing zone with attachment features for additional secondary optics.

KEY FEATURES

- Snap-in LED retention feature simplifies installation by securing the LED to the holder before mounting
- Poke-in wire connection eliminates time consuming soldering to the LED
- Enables constant thermal down force to minimize influence by thermal plastic deformation at high temperature
- Makes easy and clean thermal paste application possible with built-in excess paste overflow feature
- Provides a specified and stable landing area for additional secondary optics
- Optional alternate mechanical optic attachment accessory
- Minimalistic aesthetic design with clear polarity indication to aid assembly
- Mechanically strong and robust design with negligible light interference
- Available optics from Carclo and LEDIL

MECHANICAL

- Operating temperature range -40 to 105°C
- Utilize a screw size of #4 or M3 for attachment
- Poke-in style electrical contacts supporting 18-22 AWG (0.35 - 0.75mm²) solid, fused and stranded wire
- Z50 w/ optics attach: 50mm diameter by 6mm high
- Z50 low profile: 44 mm by 3.4 mm high
- Enables compilancy to Zhaga book 3 standard

ELECTRICAL

- Current rating: 5A
- Voltage rating: 300 VDC
- UL1977 and CSA recognized component (cUR)
- IEC 60838-2-2 (up to 60VDC max)

MATERIALS

- High mechanical strength
- High heat resistance
- Good electrical properties
- UL94V-0 flammability rating

PRODUCT OFFERING

<table>
<thead>
<tr>
<th>Holder Style</th>
<th>CXA18xx</th>
<th>CXA25xx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z50 low profile</td>
<td>2213401-1</td>
<td>2213407-1</td>
</tr>
<tr>
<td>Z50 with optic</td>
<td>2213401-2</td>
<td>2213407-2</td>
</tr>
</tbody>
</table>

Optional Z50 Reflector Optics Retaining Clips:

Model 1 for LEDIL optics: 2213194-1
Model 2 for Khatod optics: 2213349-1

APPLICATIONS AND SPECIFICATIONS

- Application Specification #: 114-32048
- Product Specification #: 108-133008
- Product Qualification Report #: 501-19197

CREE > LED Solution Provider
PRODUCT DIMENSIONS

Z50 Low Profile

Z50 with optic attachment features

Recommended Mounting Hole Pattern

Available Optics

<table>
<thead>
<tr>
<th>TE Holder</th>
<th>Optics Partner</th>
<th>Product</th>
<th>Website</th>
<th>TE Attachment Accessory Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>2213401-2</td>
<td>carclo</td>
<td>NEWTON Series Reflectors</td>
<td><a href="http://www.carclo-optics.com">www.carclo-optics.com</a></td>
<td>None</td>
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<tr>
<td>2213407-2</td>
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<tr>
<td>2213401-2</td>
<td>LEDIL</td>
<td>ANGELA and ANGELINA Series Reflectors</td>
<td><a href="http://www.ledil.com">www.ledil.com</a></td>
<td>2213194-1 (Reflector Optics Retaining Clip Model 1)</td>
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<tr>
<td>2213401-2</td>
<td>Khatod®</td>
<td>LYRA series reflectors</td>
<td><a href="http://www.khatod.com">www.khatod.com</a></td>
<td>2213349-1 (Reflector Optics Retaining Clip Model 2)</td>
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Dimensions are shown for reference purposes only. Specifications subject to change. Customer drawing should be used for all design activity.