LUMAWISE LED Holders

Type Z50 LED holder for Citizen CLL030/032

The TE Solderless LED Holder, Type Z50, is a circular LED holder that provides a quick and easy solderless connection to the Citizen CLL030/032 LED chip on board array family. TE’s Type Z50 holder allows the direct attachment of Citizen LEDs to a heat sink using standard screws enabling 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 minimum 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: 45mm by 3.4mm high
• Enables compliancy 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

Z50 low profile holder: 2213254-1
Z50 with optic attachment: 2213254-2
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
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>2213254-2</td>
<td>carclo Optics</td>
<td>NEWTON Series Reflector</td>
<td><a href="http://www.carclo-optics.com">www.carclo-optics.com</a></td>
<td>None</td>
</tr>
<tr>
<td>2213254-2</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>
</tr>
<tr>
<td>2213254-2</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>
</tr>
</tbody>
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Dimensions are shown for reference purposes only. Specifications subject to change. Customer drawing should be used for all design activity.