Molex LED Array Holders simplify the installation process for small-fixture applications for OEMs using Sharp* Mega and Mini Zenigata arrays to reduce installation time with compression contacts that eliminate hand soldering.

LED technology has been proven to reduce the amount of energy consumed and is becoming a more reliable, efficient and user-friendly way for accommodating general illumination requirements. Using unmatched interconnect technology, Molex provides a solderless solution to mounting LED arrays into OEM designs. The holders allow customers to install LED arrays quickly into fixtures, enable field replacements and facilitate upgrades to current applications.

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compression contacts deliver power to array</td>
<td>Stable connection in high-ambient temperature. Simplifies the LED installation process by eliminating hand soldering or expensive Surface Mount Technology (SMT) equipment. Reduces installation time</td>
</tr>
<tr>
<td>Double-ended wire-trap terminal to attach power source</td>
<td>Allows for wiring serial or parallel LED sequences, ensuring ease of array assembly</td>
</tr>
<tr>
<td>Screw-mount attachment method for securing array to heat sink</td>
<td>Provides voltage isolation between LED and heat sink with external mounting holes</td>
</tr>
<tr>
<td>Releasable wire trap for rework or replacement</td>
<td>Allows for field serviceability</td>
</tr>
<tr>
<td>High-temperature thermoplastic housing</td>
<td>Supports high heat-generating environments</td>
</tr>
<tr>
<td>Overall form factor is less than 50.00mm in diameter for Mega Zenigata (COB) arrays and 30.00 by 36.20mm for Mini Zenigata (COB) arrays</td>
<td>Ideal for lamp and small-fixture applications</td>
</tr>
<tr>
<td>Optional Zhaga cover for Mega Zenigata array only</td>
<td>Provides Zhaga compliant landing interface for optical</td>
</tr>
</tbody>
</table>

**Specifications**

**Reference Information**
- Packaging: Tray
- UL File No.: Pending
- CSA File No.: Pending
- Designed In: Millimeters
- RoHS: Yes
- REACH SVHC: Contains SVHC: No

**Electrical**
- Voltage (max.): 600V DC
- Current (max.):
  - 180330 Mega – 2.5A continuous; 3.5A max.
  - 180390 Min – 3.0A continuous; 4.0A max.
- Contact Resistance: 20 milliohms max.
- Dielectric Withstanding Voltage: 300V DC
- Insulation Resistance: 5000 Megohms min.

**Mechanical**
- Wire Insertion Force: 5N (1.12 lbf) max.
- Durability (min.):
  - Mega Zenigata – 5 Cycles
  - Mini Zenigata – 20 Cycles

**Physical**
- Housing: PA66 Nylon GF
- Contact:
  - Copper (Cu), Nickel (Ni) and Silver (Ag)
  - Contact Area — Select Gold (Au)
  - Solder Tail Area — Silver (Ag)
  - Underplating — Nickel (Ni)

---

* Sharp is a registered trademark of Sharp Electronics Corporation
‡ Zenigata is a registered trademark of Sharp Electronics Corporation
Applications

All general illumination applications
- Downlighting
- Track
- Pendants
- Linear

Area Lighting
- Roadways
- Parking Lots
- Wall Packs

Recessed down-lighting in residential and commercial buildings

LED Array Holder for Sharp* Mega Zenigata† (COB) and Sharp Mini Zenigata (COB) Arrays

Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Component</th>
<th>Plating</th>
<th>Zhaga Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>180330-0002</td>
<td>Mega Zenigata</td>
<td>Gold (Au)</td>
<td>No</td>
</tr>
<tr>
<td>180330-0003</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>180390-0002</td>
<td>Mini Zenigata</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

* Sharp is a registered trademark of Sharp Electronics Corporation
† Zenigata is a registered trademark of Sharp Electronics Corporation

www.molex.com/link/sharp.html
www.molex.com/industry/solidstatelighting.html