



**Ideal for OEM light-fixture manufacturers, Molex LED Array Holders simplify the light-fixture installation and achieve industry-leading thermal, electrical and optic performance for next-generation COB arrays by eliminating hand soldering**

Quality issues such as cold solder joints and operator variation arise from hand-soldering arrays to holders. Molex's LED array holders eliminate those issues with compression contacts and provide consistent results when installing LED arrays into fixtures.

**Features and Benefits**

|   |   |
|---|---|
| Single-ended Wire Trap terminal (series:180810); double-ended wire trap terminal (series:180580, 180560,180720, rectangular version) to attach power source | Allows for wiring serial or parallel LED sequences, ensuring ease of array assembly. Provides design flexibility by allowing single- or serial-wired LED configurations       |
| Concealed wire trap design  | Protects electrical contacts and provides additional voltage isolation when incorporating metal reflectors  |
| Inspired by Zhaga Book 3 standards (50.00mm diameter circular versions)   | Promotes standardization with existing LED eco system. Allows manufacturers to upgrade without re-designing their products  |
| Three-finger attachment for LEDiL Angela/Angelina reflectors (order number:180580-0005 only)  | Provides, easy alignment and secure attachment  |
| Three-latch bayonet-style reflector attachment for existing Philips Fortimo type reflectors (series:180810 only)  |   |
| LED Chip-on-Board (COB) pre-hold feature  | Minimizes installation time by allowing LED array to be secured to the holder during final assembly   |
| 4.10mm low-profile design   | Compact height fits many applications   |
| Robust housing, compression contacts  | Ensures stable connection in high-ambient temperatures. Simplifies the LED installation process by eliminating hand soldering. Reduces installation time and quality concerns |
| Screw-mount attachment method for securing array to heat sink; standardized hole centers on Zhaga-type round versions                                       | Simple attachment reduces fixture manufacturing time  |
| Releasable wire trap for rework or replacement  | Allows for field serviceability and upgrade   |
| Highly-reflective white PBT thermoplastic housing   | Promotes light output. Enables mechanical stability in high-temperature environments  |

**LED Array Holders, Dual-Ended Wire Trap**

**180560** LED Array Holder for 15.85 by 15.85mm COB, Rectangular Version

**180580** LED Array Holders for 22.00 by 22.00mm COB, Circular and Rectangular Versions

**180720** LED Array Holder for 23.85 by 23.85mm COB, Rectangular Version

**180810** LED Array Holder for 23.85 by 23.85mm COB, Circular Version with Bayonet Attachment



LED Array Holder for 15.85 by 15.85mm COB (180560-0001) Rectangular Version



LED Array Holder for 22.00 by 22.00mm COB (180580-0004) Circular Version



LED Array Holder for 22.00 by 22.00mm COB (180580-0001) Rectangular Version



LED Array Holder for 22.00 by 22.00mm COB (180580-0005) Circular Version



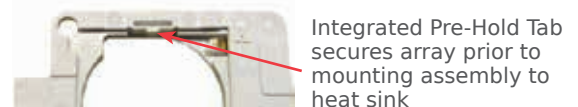
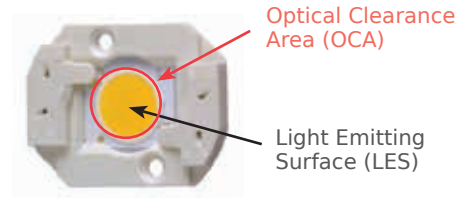
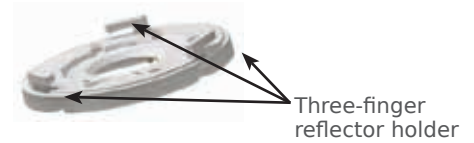
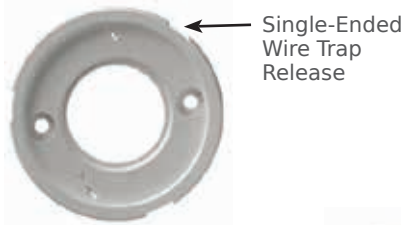
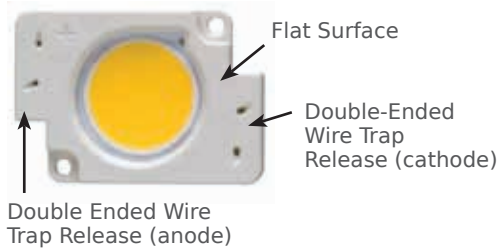
LED Array Holder for 23.85 by 23.85mm COB (Series 180720) Rectangular Version



LED Array Holder for 23.85 by 23.85mm COB (Series 180810) Circular Version

## Additional Product Features

- UL1977 and UL496 OLFB2 lampholder specification approvals help fixture manufacturers certify new fixture designs and more easily obtain agency approvals
- Eliminates the need for solder mounting typically required for LED COB arrays
- Optical Clearance Area (OCA) around the Light Emitting Surface (LES) provides larger space for addition of secondary optics
- Three-finger reflector holder for LEDiL Angela/Angelina reflectors (180580-0005 circular version)
- Flat surface provides a clean and finished look to the LED design and allows for connection of secondary optics
- Flexibility in wiring options; double-ended wire trap allows for wiring in single or in serial configurations



## Product Matrix

| 15.85 by 15.85mm                                   | 22.00 by 22.00mm                                       | 22.00 by 22.00mm  | 22.00 by 22.00mm                                | 23.85 by 23.85mm   | 23.85 by 23.85mm                                   |
|--|--|---|---|--|--|
|  |  |   |   |  |  |
|  |  |   |   |  |  |
| <b>33.00mm Length by 26.50mm Width</b>             | <b>50.00mm Outer Diameter</b>                          | <b>50.00mm Outer Diameter</b>   | <b>40.10mm Length by 31.00mm Width</b>          | <b>50.00mm Outer Diameter</b>  | <b>44.00mm Length by 30.50mm Width</b>             |
| Profile Height 4.50mm                              | Profile Height 4.10mm                                  | Profile Height 4.10mm   | Profile Height 4.10mm                           | Profile Height 4.50mm  | Profile Height 4.50mm                              |
| Integrated COB LED pre-hold tab available          | -  | -   | -   | Integrated COB LED pre-hold tab available  | Integrated COB LED pre-hold tab available          |
| Flat-top surfaces and angled light opening         | Flat-top surfaces and tight bevels                     | Flat-top surfaces and tight bevels; three-finger (LEDiL optics) attachments | Non-consistent landing for optics               | Three latch bayonet Philips Fortimo type reflector attachment; angled light opening        | Flat top surfaces and angled light opening         |
| Heat staked from bottom for smooth topside surface | Heat staked from bottom for smooth topside surface     | Heat staked from bottom for smooth topside surface                          | Visible heat stake marks on the top surface     | Heat staked from bottom for smooth topside surface   | Heat staked from bottom for smooth topside surface |
| Space-optimized rectangular design                 | -  | -   | -   | Zhaga Book 3-inspired 50mm Circular shape, optics landing height and mounting hole pattern | Space-optimized rectangular design                 |
| Can be used with a variety of optics/reflectors    | Can only be used with LEDiL Angela/Angelina reflectors | Can be used with a variety of optics/reflectors                             | Can be used with a variety of optics/reflectors | Can be used with a variety of optics/reflectors  | Can be used with a variety of optics/reflectors    |
| Can be used with Cree COBs                         | Can be used with Nichia COBs                           | Can be used with Nichia COBs  | Can be used with Osram Soleriq and Cree COBs    | Can be used with Osram Soleriq and Cree COBs   | Can be used with Osram Soleriq and Cree COBs       |

## LED Array Holders, Dual-Ended Wire Trap

## Applications

All general illumination applications

- Downlighting
  - Track
  - Pendants
  - Linear

Area Lighting

- Roadways
- Parking Lots
- Wall Packs



Recessed downlighting in residential and commercial buildings

## LED Array Holders, Dual-Ended Wire Trap

Target Customer Job Functions



## Specifications

### Reference Information

Packaging: Tray

UL File No:

E345583 – Series: 180810,  
180720, 180560

UL496 OLF2 & UL1977 –  
Order No.: 180580-0001

UL Rating Pending – Order No.:  
180580-0004, 180580-0005

CSA File No.:

E345583 – Series: 180810,  
180720, 180560

Pending – Series: 180580

Designed In: Millimeters

RoHS: Yes

REACH SVHC: Contains SVHC: No

### Electrical

Voltage (max.): 600V

Current: 2.5A continuous; 3.5A max.

Contact Resistance:  
20 milliohms max.

Dielectric Withstanding Voltage:  
300V DC

Insulation Resistance:  
5000 Megohms min.

### Mechanical

Wire Insertion Force: 5N max.

Wire Pull Out Force: 30N max.

Durability (min.): 5 Cycles

### Physical

Housing: White PBT 30%

Glass fill UL94V

Contact: Copper Alloy

Plating:

Contact Area — Gold (Au)

Underplating — Nickel (Ni)

## Ordering Information

| Order No.                   | COB Footprint    | Version          | #Integrated Pre-Hold Tab | Mounting Method | Wire Trap | Releasable Wire Trap          | Optical Attachment               |
|-----------------------------|------------------|------------------|--------------------------|-----------------|-----------|-------------------------------|----------------------------------|
| <a href="#">180560-0001</a> | 15.85 by 15.85mm | Rectangular      | No                       | M2.5 Screw      | Double    | Yes                           | Variety of optics/<br>reflectors |
| <a href="#">180580-0001</a> | 22.00 by 22.00mm |                  | Yes                      | M3 Screw        |           |                               |                                  |
| <a href="#">180580-0004</a> |                  | Circular         | Yes                      |                 |           |                               |                                  |
| <a href="#">180580-0005</a> |                  |                  | Yes                      |                 |           |                               |                                  |
| <a href="#">180720-0001</a> |                  | 23.85 by 23.85mm | Rectangular              |                 | No        |                               | M2.5 Screw                       |
| <a href="#">180720-0002</a> | Yes              |                  |                          |                 |           |                               |                                  |
| <a href="#">180810-0001</a> | Circular         |                  |                          |                 |           | Philips Fortimo<br>reflectors |                                  |

†Note: Integrated pre-hold tab can be available for any version; contact Molex for additional information

[www.molex.com/link/dualendedwiretrap.html](http://www.molex.com/link/dualendedwiretrap.html)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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