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Ideal for OEM light-fixture manufacturers, Molex LED Array Holders simplify the installation process for next-generation, energy-efficient Citizen CLL010 through CLL050 arrays and 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.

LED array holders simplify the LED installation process by eliminating the need for hand or SMT soldering and expensive SMT equipment. The holders allow customers to install LED arrays quickly into fixtures, enable field replacements and facilitate upgrades to current applications.

For additional information visit: www.molex.com/link/ledholdercitizen.html

For information about additional Solid State Lighting (SSL) that complements Citizen and other array products visit: www.molex.com/industry/solidstatelighting.html

Features and Benefits

|	
Flexible one- and two-piece versions available (CLL010 through CLL050)	Provides design flexibility for multiple arrays. Accommodates the installation of five LED arrays using the same components
Compression contacts deliver power to array	Ensure stable connection in high-ambient temperatures. Simplifies the LED installation process by eliminating hand soldering or expensive Surface Mount Technology (SMT) equipment. Reduces installation time
Double-ended wire-trap terminal to attach power source (One-piece design only)	Allows for wiring serial or parallel LED sequences, ensuring ease of array assembly
Screw-mount attachment method for securing array to heat sink	Provides voltage isolation between LED and heat sink with external mounting holes
Releasable wire-trap for rework or replacement	Allows for field serviceability
High-temperature thermoplastic housing	Supports high heat-generating environments
Wire-trap cap optional (two-piece design only)	Minimizes risk of electric arcs between metal optic and power source

*Citizen is a registered trademark of Citizen Electronics Co., Ltd.

LED Array Holders for Citizen* For CLL010, CLL020, CLL030, CLL040 and CLL050 Arrays

New Releases

180414	One-Piece Holder for CLL020 and CLL030
180416	One-Piece Holder for CLL040

Previously Released

180412	One-Piece Holder for CLL010
180414	Two-Piece Holder for CLL020 and CLL030
180416	Two-Piece Holder
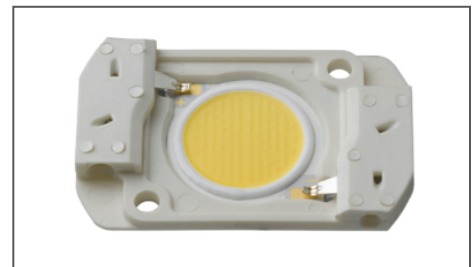
LED Array Holder for Citizen Arrays (One-piece option shown as reference)

LED Array Holder for Citizen Arrays (Two-piece option shown as reference)

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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.):
  2.5A continuous; 3.5A max.
Contact Resistance:
  20 milliohms max.
Dielectric Withstanding Voltage:
  300V DC
Insulation Resistance:
  5000 Megohms min.
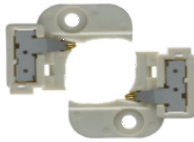
Mechanical
Wire Insertion Force:
  5N (1.12 lbf) max.
Wire Pull Out Force:
  20N (5.62 lbf) max.
Durability (min.): 5 Cycles

Physical
Housing:
Contact:
  Copper (Cu), Nickel (Ni) and Gold (Au)
Plating:
  Contact Area — Gold (Au)
  Underplating — Nickel (Ni)

Additional Product Features

Citizen Arrays	Molex One-Piece Holders		Molex Two-Piece Holders (Wire Trap Cap available for Two-Piece Design only)	
	Series	Assembled Diameter	Series	Assembled Diameter
CLL010	180412	32.45mm x 25.00mm	Not Available	
CLL020	180414	26.00mm x 34.85mm	180414	36.30mm x 29.27mm
CLL030		26.00mm x 40.50mm		41.80mm x 34.77mm
CLL040	18416	33.75mm x 46.25mm	180416	47.55mm x 42.12mm
CLL050	Not Available			57.55mm x 52.12mm

Citizen CLL Arrays (sold separately, available from Citizen Electronics, Co., Ltd http://ce.citizen.co.jp/e/)
Citizen CLL Arrays are offered in several different lumen output levels and various color temperatures

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Applications

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

Area Lighting
– Roadways
– Parking Lots
– Wall Packs

Recessed downlighting in residential and commercial buildings

Ordering Information

Order No.	Design Type	Citizen Array
180412-0001	One-Piece	CLL010
180414-0001	Two-Piece	CLL020 CLL030
180414-0102	One-Piece	CLL020
180414-0103		CLL030
180416-0001	Two-Piece	CLL040 CLL050
180416-0104	One-Piece	CLL040

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