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**Part Number:** [0878331620](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid Connector System](#)  
**Description:** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 16 Circuits, 0.38µm Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube

**Documents:**

|                                                                  |                                                                |
|------------------------------------------------------------------|----------------------------------------------------------------|
| <a href="#">Drawing (PDF)</a>                                    | <a href="#">Packaging Specification PK-87831-001-001 (PDF)</a> |
| <a href="#">3D Model (PDF)</a>                                   | <a href="#">Packaging Specification PK-87831-002-001 (PDF)</a> |
| <a href="#">3D Model</a>                                         | <a href="#">Packaging Specification PK-87831-300-001 (PDF)</a> |
| <a href="#">Product Specification PS-87831-027-001 (PDF)</a>     | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |
| <a href="#">Application Specification 503940001-AS-000 (PDF)</a> |                                                                |

**Agency Certification**

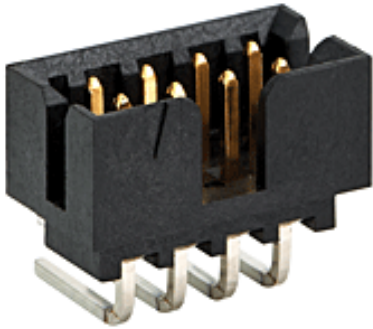
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                                                      |
|----------------|------------------------------------------------------|
| Product Family | PCB Headers                                          |
| Series         | <a href="#">87833</a>                                |
| Application    | Signal, Wire-to-Board                                |
| Comments       | Contact Molex for application in automotive industry |
| Overview       | <a href="#">Milli-Grid Connector System</a>          |
| Product Name   | Milli-Grid                                           |
| UPC            | 822348189137                                         |

**Physical**

|                                |                 |
|--------------------------------|-----------------|
| Breakaway                      | No              |
| Circuits (Loaded)              | 16              |
| Circuits (maximum)             | 16              |
| Color - Resin                  | Black           |
| Durability (mating cycles max) | 100             |
| First Mate / Last Break        | No              |
| Flammability                   | 94V-0           |
| Glow-Wire Capable              | No              |
| Guide to Mating Part           | No              |
| Keying to Mating Part          | Yes             |
| Lock to Mating Part            | Yes             |
| Material - Metal               | Phosphor Bronze |
| Material - Plating Mating      | Gold            |
| Material - Plating Termination | Tin             |
| Material - Resin               | Nylon           |
| Net Weight                     | 0.859/g         |
| Number of Rows                 | 2               |
| Orientation                    | Right Angle     |
| PC Tail Length                 | 2.16mm          |
| PCB Locator                    | No              |
| PCB Retention                  | None            |
| PCB Thickness - Recommended    | 1.60mm          |
| Packaging Type                 | Tube            |
| Pitch - Mating Interface       | 2.00mm          |
| Pitch - Termination Interface  | 2.00mm          |
| Plating min - Mating           | 0.381µm         |
| Plating min - Termination      | 1.905µm         |
| Polarized to PCB               | No              |
| Shrouded                       | Fully           |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2020)9139-DC (19  
Jan 2021)

**Halogen-Free**

**Status**

**Not Low-Halogen**

For more information, please visit [Contact US](#)

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[87833](#) Series

**Mates With**

Milli-Grid Vertical Through Hole Receptacle [79107](#) , [78787](#) , Milli-Grid Flex-to-Board Vertical Receptacle [79108](#) , Milli-Grid Vertical Surface Mount Receptacle [79109](#) , [78788](#) , Milli-Grid Crimp Housing [51110](#) , Milli-Grid Cable-to-Board Receptacle [87568](#)

|                                                |                                                         |
|------------------------------------------------|---------------------------------------------------------|
| Stackable                                      | No                                                      |
| Surface Mount Compatible (SMC)                 | Yes                                                     |
| Temperature Range - Operating                  | -55° to +105°C                                          |
| Termination Interface: Style                   | Through Hole                                            |
| <b>Electrical</b>                              |                                                         |
| Current - Maximum per Contact                  | 2.0A                                                    |
| Voltage - Maximum                              | 125V                                                    |
| <b>Solder Process Data</b>                     |                                                         |
| Duration at Max. Process Temperature (seconds) | 011                                                     |
| Lead-freeProcess Capability                    | SMC&WAVE                                                |
| Max. Cycles at Max. Process Temperature        | 001                                                     |
| Process Temperature max. C                     | 265                                                     |
| <b>Material Info</b>                           |                                                         |
| <b>Reference - Drawing Numbers</b>             |                                                         |
| Application Specification                      | 503940001-AS-000                                        |
| Packaging Specification                        | PK-87831-001-001, PK-87831-002-001,<br>PK-87831-300-001 |
| Product Specification                          | PS-87831-027-001                                        |
| Sales Drawing                                  | SD-87833-0001-001                                       |

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