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**Part Number:** [0878321010](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid Connector System](#)  
**Description:** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Surface Mount, Shrouded, Lead-Free, 10 Circuits, 0.38µm Gold (Au) Plating, with Locking Window, without Pick-and-Place Cap, with PCB Locator, Tube

**Documents:**

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

**Agency Certification**

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

**General**

|                |  |
|----------------|--|
| Product Family | PCB Headers  |
| Series         | <a href="#">87832</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            | 822348266647   |

**Physical**

|                                |                 |
|--------------------------------|-----------------|
| Breakaway                      | No              |
| Circuits (Loaded)              | 10              |
| Circuits (maximum)             | 10              |
| 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                     | 0.467/g         |
| Number of Rows                 | 2               |
| Orientation                    | Vertical        |
| PCB Locator                    | No              |
| PCB Retention                  | None            |
| 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           |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | Yes             |
| Temperature Range - Operating  | -55° to +105°C  |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Not Low-Halogen**

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

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[87832](#) 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](#)

Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 2.0A  
Voltage - Maximum 125V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 010  
Lead-free Process Capability REFLOW  
Max. Cycles at Max. Process Temperature 001  
Process Temperature max. C 260

**Material Info**

**Reference - Drawing Numbers**

Application Specification 503940001-AS-000  
Packaging Specification PK-87831-001-001  
Product Specification PS-87831-027-001  
Sales Drawing SD-87832-0001-001

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