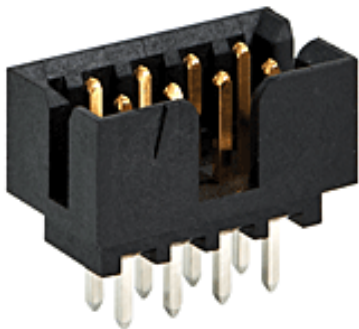


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**Part Number:** [0878310819](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid™ Connector System](#)  
**Description:** 2.00mm Pitch Milli-Grid™ Header, Vertical, Through Hole, Shrouded, 8 Circuits, 0.127µm Gold (Au) Plating, without Center Polarization Slot, without Locking Window, without PCB Locator, Tube

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-87831-027-001 \(PDF\)](#)  
[Packaging Specification PK-87831-001 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| <b>Agency Certification</b>    |                                                      |
| CSA                            | LR19980                                              |
| UL                             | E29179                                               |
| <b>General</b>                 |                                                      |
| Product Family                 | PCB Headers                                          |
| Series                         | <a href="#">87831</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                            | 822348332106                                         |
| <b>Physical</b>                |                                                      |
| Breakaway                      | No                                                   |
| Circuits (Loaded)              | 8                                                    |
| Circuits (maximum)             | 8                                                    |
| Color - Resin                  | Black                                                |
| Durability (mating cycles max) | 100                                                  |
| First Mate / Last Break        | No                                                   |
| Flammability                   | 94V-0                                                |
| Glow-Wire Compliant            | No                                                   |
| Guide to Mating Part           | No                                                   |
| Keying to Mating Part          | None                                                 |
| Lock to Mating Part            | Yes                                                  |
| Material - Metal               | Phosphor Bronze                                      |
| Material - Plating Mating      | Gold                                                 |
| Material - Plating Termination | Tin                                                  |
| Material - Resin               | Nylon                                                |
| Net Weight                     | 0.426/g                                              |
| Number of Rows                 | 2                                                    |
| Orientation                    | Vertical                                             |
| PC Tail Length                 | 2.50mm                                               |
| 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           | 0.127µm                                              |
| Plating min - Termination      | 1.905µm                                              |
| Polarized to PCB               | No                                                   |
| Shrouded                       | Yes                                                  |
| Stackable                      | No                                                   |
| Surface Mount Compatible (SMC) | Yes                                                  |



Series image - Reference only

**EU ELV**  
**Not Relevant**

**EU RoHS**  
**Compliant**  
**REACH SVHC**  
Not Contained Per  
-ED/01/2017 (12  
January 2017)  
**Halogen-Free**  
**Status**  
**Not Low-Halogen**

**China RoHS**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS      Green Image  
ELV      Not Relevant  
RoHS Phthalates      Not Contained

**Search Parts in this Series**  
[87831](#) 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](#)

|                                    |                  |
|------------------------------------|------------------|
| Temperature Range - Operating      | -55°C to +105°C  |
| Termination Interface: Style       | Through Hole     |
| <b>Electrical</b>                  |                  |
| Current - Maximum per Contact      | 2.0A             |
| Voltage - Maximum                  | 125V             |
| <b>Material Info</b>               |                  |
| <b>Reference - Drawing Numbers</b> |                  |
| Packaging Specification            | PK-87831-001     |
| Product Specification              | PS-87831-027-001 |
| Sales Drawing                      | SD-87831-0001    |

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