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**Part Number:** [87831-1635](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid™ Connector System](#)  
**Description:** 2.00mm Pitch Milli-Grid™ Header, Vertical, Through Hole, Shrouded, 16 Circuits, 0.76µm Gold (Au) Plating, PCB Locator, Center Polarization Slot, with Locking Windows, Tube

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-87831-027 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

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

**General**

|                |                                                      |
|----------------|------------------------------------------------------|
| 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            | 822348332410                                         |

**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 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                     | 0.798/g         |
| Number of Rows                 | 2               |
| Orientation                    | Vertical        |
| PC Tail Length                 | 3.50mm          |
| PCB Locator                    | Yes             |
| PCB Retention                  | None            |
| PCB Thickness - Recommended    | 2.95mm          |
| Packaging Type                 | Tube            |
| Pitch - Mating Interface       | 2.00mm          |
| Pitch - Termination Interface  | 2.00mm          |
| Plating min - Mating           | 0.762µm         |
| Plating min - Termination      | 1.905µm         |
| Polarized to PCB               | No              |
| Shrouded                       | Yes             |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | Yes             |

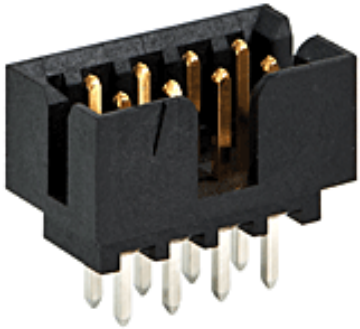


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Series

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

**Contains SVHC: No  
Low-Halogen Status  
Not Low-Halogen**

**China RoHS**



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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[87831Series](#)

**Mates With**

50394 Wire-to-Board Terminals, 51110  
Wire-to-Board Crimp Housing, 87568 Wire-  
to-Board IDT Housings, 79107 Board-to-  
Board Top Entry Through Hole Receptacle,  
79108 Board-to-Board FFC/FPC Top Entry  
Through Hole Receptacle, 79109 Board-to-  
Board Surface Mount PCB Receptacle

|                                                |                        |
|------------------------------------------------|------------------------|
| Temperature Range - Operating                  | -55°C to +105°C        |
| Termination Interface: Style                   | Through Hole           |
| <b>Electrical</b>                              |                        |
| Current - Maximum per Contact                  | 2A                     |
| Voltage - Maximum                              | 125V                   |
| <b>Solder Process Data</b>                     |                        |
| Duration at Max. Process Temperature (seconds) | 10                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 260                    |
| <b>Material Info</b>                           |                        |
| <b>Reference - Drawing Numbers</b>             |                        |
| Product Specification                          | PS-87831-027           |
| Sales Drawing                                  | SD-87831-016           |

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