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Part Number:

0878331231

Status:

Active

Overview:

Milli-Grid Connector System

Description:

2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 12 Circuits, 0.38µm Gold (Au) Plating, without PCB Locator, with Locking Window, without Center Polarization Slot, Tube

- Documents:
- [3D Model \(PDF\)](#)

[Drawing \(PDF\)](#)

[3D Model](#)

[Product Specification PS-87831-027-001 \(PDF\)](#)

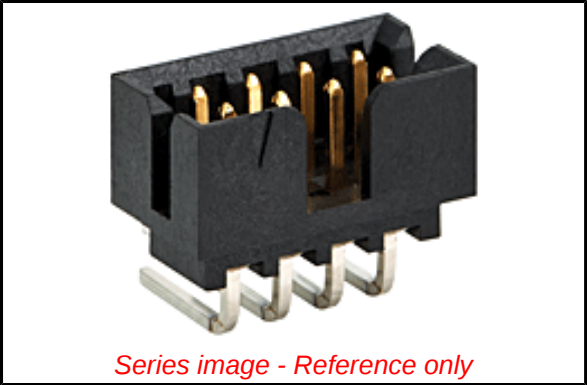
[Application Specification 503940001-AS-000 \(PDF\)](#)
- [Packaging Specification PK-87831-001-001 \(PDF\)](#)

[Packaging Specification PK-87831-002-001 \(PDF\)](#)

[Packaging Specification PK-87831-300-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

| Agency Certification           |                                                      |
|--------------------------------|------------------------------------------------------|
| CSA                            | LR19980                                              |
| UL                             | E29179                                               |
| General                        |                                                      |
| Product Family                 | PCB Headers                                          |
| Series                         | 87833                                                |
| 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                                           |
| Taxonomy                       | PCB Headers and Receptacles                          |
| UPC                            | 822348231997                                         |
| Physical                       |                                                      |
| Breakaway                      | No                                                   |
| Circuits (Loaded)              | 12                                                   |
| Circuits (maximum)             | 12                                                   |
| 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          | None                                                 |
| Lock to Mating Part            | Yes                                                  |
| Material - Metal               | Phosphor Bronze                                      |
| Material - Plating Mating      | Gold                                                 |
| Material - Plating Termination | Tin                                                  |
| Material - Resin               | Nylon                                                |
| Net Weight                     | 0.652/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                                                   |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per - D(2022)4187-DC (10 June 2022)

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](#)

|                                                |                                                         |
|------------------------------------------------|---------------------------------------------------------|
| Shrouded                                       | Fully                                                   |
| 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                                       |

This document was generated on 09/21/2022

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