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Part Number:

0878311020

Status:

Active

Overview:

Milli-Grid Connector System

Description:

2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 10 Circuits, 0.38µm Gold (Au) Plating, with Center Polarization Slot, without Locking Window, without PCB Locator, Tube

Documents:

3D Model

3D Model (PDF)

Drawing (PDF)

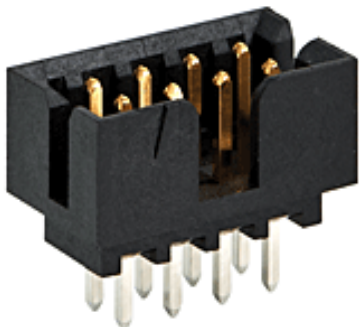
Product Specification PS-87831-027-001 (PDF)

Application Specification 503940001-AS-000 (PDF)

Packaging Specification PK-87831-001-001 (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Agency Certification           |                                                      |
| CSA                            | LR19980                                              |
| UL                             | E29179                                               |
| General                        |                                                      |
| Product Family                 | PCB Headers                                          |
| Series                         | 87831                                                |
| Application                    | Signal, Wire-to-Board                                |
| Comments                       | Contact Molex for application in automotive industry |
| Overview                       | Milli-Grid Connector System                          |
| Product Name                   | Milli-Grid                                           |
| UPC                            | 822348274055                                         |
| 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          | None                                                 |
| Lock to Mating Part            | Yes                                                  |
| Material - Metal               | Phosphor Bronze                                      |
| Material - Plating Mating      | Gold                                                 |
| Material - Plating Termination | Tin                                                  |
| Material - Resin               | Nylon                                                |
| Net Weight                     | 0.514/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           | 0.381µm                                              |
| Plating min - Termination      | 1.905µm                                              |
| Polarized to PCB               | No                                                   |
| Shrouded                       | Yes                                                  |
| Stackable                      | No                                                   |



Series image - Reference only

|                                                               |               |
|---------------------------------------------------------------|---------------|
| EU ELV                                                        |               |
| Not Relevant                                                  |               |
| EU RoHS                                                       | China 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 <a href="#">Contact US</a> |               |
| 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](#)

|                                                |                   |
|------------------------------------------------|-------------------|
| 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) | 010               |
| Lead-freeProcess Capability                    | WAVE              |
| Max. Cycles at Max. Process Temperature        | 001               |
| Process Temperature max. C                     | 260               |
| <b>Material Info</b>                           |                   |
| <b>Reference - Drawing Numbers</b>             |                   |
| Application Specification                      | 503940001-AS-000  |
| Packaging Specification                        | PK-87831-001-001  |
| Product Specification                          | PS-87831-027-001  |
| Sales Drawing                                  | SD-87831-0001-001 |

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