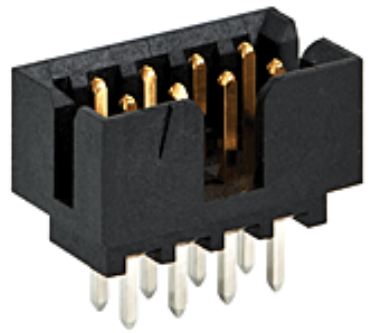
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**Part Number:** 0878310443
**Status:** Active
**Overview:** Milli-Grid™ Connector System
**Description:** 2.00mm Pitch Milli-Grid™ Header, Vertical, Through Hole, Shrouded, 4 Circuits, 0.38µm Gold (Au) Plating, with Locking Window, without PCB Locator, without Center Polarization Slot, Tube



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-87831-027-001 (PDF)
Packaging Specification PK-87831-002 (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 | 822348331994 |

**Physical**

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 4 |
| Circuits (maximum) | 4 |
| 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 | 0.227/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 |
| Surface Mount Compatible (SMC) | Yes |

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

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

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

Email productcompliance@molex.com
Please visit the Contact Us section for any non-product compliance questions.

| | |
|---|---|
| China ROHS | Not Relevant |
| 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 |

**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

| | |
|---|---|
| Packaging Specification | PK-87831-002 |
| Product Specification | PS-87831-027-001 |
| Sales Drawing | SD-87831-0001 |

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