**Part Number :** 878332220
**Product Description :** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 22 Circuits, 0.38µm Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube
**Series Number :** 87833
**Status :** Active
**Product Category :** PCB Headers and Receptacles



## Documents & Resources

### Drawings

878332220_sd.pdf

PK-87831-001-001.pdf

PK-87831-002-001.pdf

PK-87831-300-001.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

503940001-AS-000.pdf

PS-87831-027-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33 |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC |

| | |
|---|---|
| | 61249-2-21 |
| REACH SVHC | Not Contained per D(2025)4165-DC (25 June 2025) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 87833 |
| Description | 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 22 Circuits, 0.38µm Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube |
| Application | Signal, Wire-to-Board |
| Comments | Contact Molex for application in automotive industry |
| Component Type | PCB Header |
| Product Name | Milli-Grid |
| UPC | 822348232000 |

### Agency

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

**Electrical**

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

**Physical**

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 22 |
| Circuits (maximum) | 22 |
| 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 | 1.170/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| Packaging Type | Tube |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness - Recommended | 1.60mm |
| PC Tail Length | 2.16mm |
| 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 | Fully |
| Stackable | No |
| Temperature Range - Operating | -55° to +105°C |
| Termination Interface Style | Through Hole |

### Solder Process Data

| | |
|---|---|
| Max-Duration | 11 |
| Lead-Free Process Capability | SMC&WAVE |
| Max-Cycle | 1 |
| Max-Temp | 265 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Milli-Grid Dual Row Receptacle Housings | 51110 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 78787 |
| Milli-Grid Top Entry Surface Mount PCB Receptacles | 78788 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 79107 |
| Milli-Grid Vertical Through Hole PCB Receptacles | 79108 |
| Milli-Grid Top/Bottom Entry Surface Mount PCB Receptacles | 79109 |
| Milli-Grid Dual Row Cable-to-Board Receptacles | 87568 |