



**Part Number :** [878315920](#)

**Product Description :** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 20 Circuits, 13 Position Voided, 0.38µm Gold (Au) Plating, with Center Polarization Slot, with Locking Window, without PCB Locator, Void Position Circuit 13, Tube

**Series Number :** 87831

**Status :** Active

**Product Category :** PCB Headers and Receptacles

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## Documents and Resources

### Drawings

[878315920\\_sd.pdf](#)

[PK-87831-001-001.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](#)

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## 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)6375-DC (05 Nov 2025) SCIP:
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

## Part Details

### General

Status	Active
Category	PCB Headers and Receptacles
Series	87831
Description	2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 20 Circuits, 13 Position Voided, 0.38µm Gold (Au) Plating, with Center Polarization Slot, with Locking Window, without PCB Locator, Void Position Circuit 13, Tube
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Component Type	PCB Header
Product Name	Milli-Grid
UPC	883906425852

## Agency

CSA	LR19980
UL	E29179

## Electrical

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

## Physical

Breakaway	No
Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
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	0.919/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tube
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
PC Tail Length	2.50mm
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
Temperature Range - Operating	-55° to +105°C
Termination Interface Style	Through Hole

### Solder Process Data

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

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### Mates With / Use With

#### Mates with Part(s)

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

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