



**Part Number :** [878331419](#)  
**Product Description :** 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Right-Angle, Through Hole, 14 Circuits, Gold (Au) Flash Plating, without PCB Locator, without Locking Window, Center Polarization Slot, Tube  
**Series Number :** 87833  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles



Documents & Resources


- Drawings**  
[878331419\\_sd.pdf](#)  
[PK-87831-001-001.pdf](#)  
[PK-87831-002-001.pdf](#)  
[PK-87831-300-001.pdf](#)

- 3D Models and Design Files**  
[878331419\\_stp.zip](#)

- Specifications**  
[503940001-AS-000.pdf](#)  
[PS-87831-027-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)7663-DC (21 Jan 2025)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements  
- Eu RoHS

- REACH SVHC

- Low-Halogen

#### Multiple Part Industry Compliance Documents

- IPC 1752A Class C

- IPC 1752A Class D

- Molex Product Compliance Declaration

- IEC-62474

- chemSHERPA (xml)

#### EU RoHS Certificate of Compliance

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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, 14 Circuits, Gold (Au) Flash Plating, without PCB Locator, without Locking Window, 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	822348352661

### Agency

CSA	LR19980
UL	E29179

### Electrical

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

### Physical

Breakaway	No
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Circuits (Loaded)	14
Circuits (maximum)	14
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	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	0.819/g
Number of Rows	2
Orientation	Right Angle
Packaging Type	Tube
PC Tail Length	2.16mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	0.051µm
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

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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>