

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878310820](#)
Status: **Active**
Overview: [Milli-Grid Connector System](#)
Description: 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 8 Circuits, 0.38µm Gold (Au) Plating, with Center Polarization Slot, without Locking Window, without PCB Locator, Tube

Documents:

[3D Model](#) [Packaging Specification PK-87831-001-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87831-027-001 \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [87831](#)
 3D Viewer Yes
 Application Signal, Wire-to-Board
 CURRENT-MAX-NUMERIC 2.0
 Comments Contact Molex for application in automotive industry,
 Contact Molex for application in automotive industry
 Overview [Milli-Grid Connector System](#)
 PITCH-MATING-NUMERIC 2.00
 Product Name Milli-Grid
 UPC 822348271856

Physical

Breakaway No
 Circuits (Loaded) 8
 Circuits (maximum) 8
 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 0.430/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



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
 ED/71/2019 (16 July
 2019)

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

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](#)

| | |
|--------------------------------|----------------|
| Polarized to PCB | No |
| Shrouded | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -55° to +105°C |
| Termination Interface: Style | Through Hole |

Electrical

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

Solder Process Data

| | |
|--|------|
| Duration at Max. Process Temperature (seconds) | 010 |
| Lead-free Process Capability | WAVE |
| Max. Cycles at Max. Process Temperature | 001 |
| Process Temperature max. C | 260 |

Material Info**Reference - Drawing Numbers**

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

This document was generated on 10/16/2019

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Molex:](#)

[87831-0820](#)