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Part Number:

87381-3838

Status:

Active

Overview:

Milli-Grid™ Connector System

Description:

2.00mm Pitch Milli-Grid™ Receptacle, Surface Mount, Top Entry, 0.051µm Gold (Au) Plating, with Locating Peg, 38 Circuits, Lead-Free



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87380-002 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)
- [Product Literature \(PDF\)](#)

Agency Certification

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

General

|                             |                              |
|-----------------------------|------------------------------|
| Product Family              | PCB Receptacles              |
| Series                      | 87381                        |
| Application                 | Board-to-Board, Signal       |
| Comments                    | With Pegs                    |
| Overview                    | Milli-Grid™ Connector System |
| Product Literature Order No | 987650-1991                  |
| Product Name                | Milli-Grid™                  |
| UPC                         | 884982769090                 |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 38                             |
| Circuits (maximum)             | 38                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Lock to Mating Part            | None                           |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 0.937/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | Yes                            |
| PCB Retention                  | None                           |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface       | 2.00mm                         |
| Pitch - Termination Interface  | 2.00mm                         |
| Plating min - Mating           | 0.051µm                        |
| Plating min - Termination      | 1.905µm                        |
| Polarized to PCB               | Yes                            |
| Stackable                      | Yes                            |
| Surface Mount Compatible (SMC) | N/A                            |
| Temperature Range - Operating  | -55°C to +105°C                |
| Termination Interface: Style   | Surface Mount                  |

Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.9A |
| Voltage - Maximum             | 125V |

EU RoHS

ELV and RoHS  
Compliant

REACH SVHC

Not Reviewed

Low-Halogen Status

Not Low-Halogen

China RoHS



Need more information on product  
environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

Search Parts in this Series

87381Series

Mates With

87758 Vertical, Through Hole, Stackable  
PCB Header, 87759 Vertical, Surface  
Mount, Stackable PCB Header, 87760  
Right Angle, Through Hole, Stackable PCB  
Header, 87831 Vertical, Through Hole PCB  
Header, 87832 Vertical, Surface Mount PCB

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 14                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 1                         |
| Process Temperature max. C                     | 265                       |

**Material Info**

**Reference - Drawing Numbers**

|                       |               |
|-----------------------|---------------|
| Product Specification | PS-87380-002  |
| Sales Drawing         | SD-87381-**** |

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