**Part Number :** 873810818
**Product Description :** 2.00mm Pitch Milli-Grid Receptacle, Surface Mount, Top Entry, 0.38µm Gold (Au) Plating, without Cover, with Locating Peg, 8 Circuits, Lead-Free
**Series Number :** 87381
**Status :** Active
**Product Category :** PCB Headers and Receptacles



## Documents & Resources

### Drawings

873810818_sd.pdf

PK-87368-0001-001.pdf

873810001-PK-000.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

503940001-AS-000.pdf

PS-87380-002-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| 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 | 87381 |
| Description | 2.00mm Pitch Milli-Grid Receptacle, Surface Mount, Top Entry, 0.38µm Gold (Au) Plating, without Cover, with Locating Peg, 8 Circuits, Lead-Free |
| Application | Board-to-Board, Signal |
| Comments | With Pegs |
| Component Type | PCB Receptacle |
| Product Name | Milli-Grid |
| UPC | 822348641147 |

### Agency

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

### Electrical

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

**Physical**

| | |
|---|---|
| Circuits (Loaded) | 8 |
| Circuits (maximum) | 8 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| First Mate / Last Break | No |
| Flammability | 94V-0 |
| Glow-Wire Capable | 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 | 0.180/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| Packaging Type | Tube |
| PCB Locator | Yes |
| PCB Retention | None |
| Pitch - Mating Interface | 2.00mm |
| Pitch - Termination Interface | 2.00mm |
| Plating min - Mating | 0.381µm |
| Plating min - Termination | 1.270µm |
| Polarized to PCB | No |
| Stackable | Yes |
| Temperature Range - Operating | -55° to +105°C |
| Termination Interface Style | Surface Mount |

**Solder Process Data**

| | |
|---|---|
| Max-Duration | 12 |
| Lead-Free Process Capability | REFLOW |
| Max-Cycle | 1 |

| | |
|---|---|
| Max-Temp | 260 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Milli-Grid Vertical Through Hole Headers | 87758 |
| Milli-Grid Vertical Surface Mount Headers | 87759 |
| Milli-Grid Right-Angle Through Hole Headers | 87760 |
| Milli-Grid Vertical, Dual Row, Through Hole Headers | 87831 |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers | 87832 |