



**Part Number :** [875685093](#)  
**Product Description :** Milli-Grid Cable-to-Board Receptacle, Dual Row, IDT, Lead-Free, 50 Circuits, 0.38µm Gold (Au) Selective Plating, with Center Polarization Key and Locking Friction Ramp  
**Series Number :** 87568  
**Status :** Active  
**Product Category :** Connector Housings



Documents & Resources

**Drawings**  
[Drawing 875685093\\_sd.pdf](#)  
[Packaging Design Drawing PK-87568-0001-001.pdf](#)

**3D Models and Design Files**  
[3D Model 875685093\\_stp.zip](#)

**Specifications**  
[Application Specification 503940002-AS-000.pdf](#)  
[Product Specification PS-87568-004-001.pdf](#)

Product Environment Compliance

Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44; 34; 33                                                   |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21                                                    |
| REACH SVHC         | Not Contained per D(2024)4144-DC (27 June 2024)                                       |
| 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

---

### Part Details

#### General

|                |                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                                                                  |
| Category       | Connector Housings                                                                                                                                                      |
| Series         | 87568                                                                                                                                                                   |
| Description    | Milli-Grid Cable-to-Board Receptacle, Dual Row, IDT, Lead-Free, 50 Circuits, 0.38µm Gold (Au) Selective Plating, with Center Polarization Key and Locking Friction Ramp |
| Product Family | Milli-Grid Connector System                                                                                                                                             |
| Product Name   | Milli-Grid                                                                                                                                                              |
| UPC            | 822348458394                                                                                                                                                            |

#### Agency

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

#### Electrical

|                   |      |
|-------------------|------|
| Voltage - Maximum | 125V |
|-------------------|------|

#### Physical

|                                |        |
|--------------------------------|--------|
| Circuits (Loaded)              | 50     |
| Circuits (maximum)             | 50     |
| Color - Resin                  | Black  |
| Durability (mating cycles max) | 100    |
| Flammability                   | 94V-0  |
| Gender                         | Female |
| Glow-Wire Capable              | No     |

|                               |                |
|-------------------------------|----------------|
| Lock to Mating Part           | Yes            |
| Material - Metal              | Copper Alloy   |
| Material - Plating Mating     | Gold           |
| Material - Resin              | Polyester      |
| Net Weight                    | 2.721/g        |
| Number of Rows                | 2              |
| Packaging Type                | Tray           |
| Panel Mount                   | No             |
| Pitch - Mating Interface      | 2.00mm         |
| Polarized to Mating Part      | Yes            |
| Stackable                     | No             |
| Temperature Range - Operating | -45° to +105°C |
| Termination Interface Style   | IDT or Pierce  |
| Wire Size (AWG)               | 28             |

#### Solder Process Data

|                              |     |
|------------------------------|-----|
| Lead-Free Process Capability | N/A |
|------------------------------|-----|

---

#### Mates With / Use With

##### Mates with Part(s)

| Description                                          | Part Number  |
|------------------------------------------------------|--------------|
| Milli-Grid Vertical, Dual Row, Through Hole Headers  | <u>87831</u> |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers | <u>87832</u> |
| Milli-Grid Right-Angle Dual Row Through Hole Headers | <u>87833</u> |

##### Use with Part(s)

| Description                                        | Part Number      |
|----------------------------------------------------|------------------|
| 2.00mm Strain Relief for Dual Row IDT, 50 Circuits | <u>875691050</u> |

---

#### Application Tooling

##### Global

| Description                                 | Part Number      |
|---------------------------------------------|------------------|
| IDT - Manual - Handtool                     | <u>621002000</u> |
| Manual Press with IDT Ribbon Cable Tool Kit | <u>621002200</u> |
| IDT Ribbon Cable Adapter Kit for 2.00mm     | <u>621002400</u> |
| IDT - Manual - Tool Kit                     | <u>621003200</u> |