



**Part Number :** [511102050](#)  
**Product Description :** 2.00mm Pitch, Milli-Grid  
Receptacle Housing, 20 Circuits, without Center  
Polarization Key, without Locking Ramp, Lead-Free  
**Series Number :** 51110  
**Status :** Active  
**Product Category :** Connector Housings



## Documents & Resources

### Drawings

[511102050 sd.pdf](#)  
[PK-51110-300-001.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)  
[SOLIDWORKS](#)  
[Creo](#)

### Specifications

[503940001-AS-000.pdf](#)  
[PS-51110-001-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Not Low-Halogen per IEC<br>61249-2-21                                                                        |
| REACH SVHC         | Not Contained per D(2025)4165-DC<br>(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

## Part Details

### General

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Status       | Active                                                                                                                     |
| Category     | Connector Housings                                                                                                         |
| Series       | 51110                                                                                                                      |
| Description  | 2.00mm Pitch, Milli-Grid Receptacle Housing, 20 Circuits, without Center Polarization Key, without Locking Ramp, Lead-Free |
| Application  | Signal, Wire-to-Board                                                                                                      |
| Comments     | Applicable Wire Ranges: 24-30 AWG (series 50394 terminal) and 22-28 AWG (series 87396 terminal)                            |
| Product Name | Milli-Grid                                                                                                                 |
| UPC          | 800753748378                                                                                                               |

### Agency

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

### Physical

|                    |       |
|--------------------|-------|
| Circuits (maximum) | 20    |
| Color - Resin      | Black |
| Flammability       | 94V-0 |

| Gender                        | Receptacle     |
|-------------------------------|----------------|
| Glow-Wire Capable             | No             |
| Keying to Mating Part         | None           |
| Lock to Mating Part           | Yes            |
| Material - Resin              | Polyester      |
| Net Weight                    | 0.425/g        |
| Number of Rows                | 2              |
| Packaging Type                | Bag            |
| Panel Mount                   | No             |
| Pitch - Mating Interface      | 2.00mm         |
| Pitch - Termination Interface | 2.00mm         |
| Polarized to Mating Part      | Yes            |
| Stackable                     | No             |
| Temperature Range - Operating | -40° to +105°C |

---

## Mates With / Use With

### Mates with Part(s)

| Description                                             | Part Number                   |
|---------------------------------------------------------|-------------------------------|
| Milli-Grid Vertical Through Hole Headers                | <u><a href="#">87758</a></u>  |
| Milli-Grid Vertical Surface Mount Headers               | <u><a href="#">87759</a></u>  |
| Milli-Grid Right-Angle Through Hole Headers             | <u><a href="#">87760</a></u>  |
| Milli-Grid Vertical, Dual Row, Through Hole Headers     | <u><a href="#">87831</a></u>  |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers    | <u><a href="#">87832</a></u>  |
| Milli-Grid BMI Vertical, Dual Row, Through Hole Headers | <u><a href="#">151013</a></u> |
| Milli-Grid Vertical, Dual Row, Through Hole Headers     | <u><a href="#">151117</a></u> |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers    | <u><a href="#">151118</a></u> |
| Milli-Grid Right-Angle, Dual Row, Through Hole Headers  | <u><a href="#">151119</a></u> |
|                                                         |                               |

|                                                            |               |
|------------------------------------------------------------|---------------|
| Milli-Grid Right-Angle, Dual Row,<br>Surface Mount Headers | <u>151120</u> |
| Milli-Grid Right-Angle Dual Row<br>Through Hole Headers    | <u>87833</u>  |

### Use with Part(s)

| Description                                                                                                         | Part Number      |
|---------------------------------------------------------------------------------------------------------------------|------------------|
| Pre-Crimped Lead Milli-Grid<br>Female-to-Milli-Grid Female, Gold<br>(Au) Plating, 150.00mm Length, 24<br>AWG, Black | <u>797581095</u> |
| Pre-Crimped Lead Milli-Grid<br>Female-to-Milli-Grid Female, Gold<br>(Au) Plating, 300.00mm Length, 24<br>AWG, Black | <u>797581096</u> |
| Milli-Grid Female Crimp Terminals                                                                                   | <u>50394</u>     |
| Milli-Grid Female Crimp Terminals                                                                                   | <u>87396</u>     |

---

## Application Tooling

### Global

| Description                                   | Part Number      |
|-----------------------------------------------|------------------|
| Extractor Tool for Milli-Grid 2.0<br>Housings | <u>638242800</u> |