



Part Number : 511100452

Series Number : 51110

Product Category : Connector Housings

Product Description : 2.00mm Pitch, Milli-Grid Receptacle Housing, 4 Circuits, with Center Polarization Key, without Locking Ramp, Lead-Free


Status : Active

Documents & Resources

- Drawings
- [Drawing 511100452_sd.pdf](#)
- [Packaging Design Drawing PK-51110-300-001.pdf](#)
- 3D Models and Design Files
- [3D Model 511100452_stp.zip](#)
- Specifications
- [Application Specification 503940001-AS-000.pdf](#)
- [Product Specification PS-51110-001-001.pdf](#)

Product Environment Compliance

Compliance

| | |
|--------------------|---|
| GADSL/IMDS | Not Relevant |
| 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 | 51110 |
| Description | 2.00mm Pitch, Milli-Grid Receptacle Housing, 4 Circuits, with 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 Family | Milli-Grid Connector System |
| Product Name | Milli-Grid |
| UPC | 889056726191 |

Physical

| | |
|-------------------------------|------------|
| Circuits (maximum) | 4 |
| Color - Resin | Black |
| Gender | Receptacle |
| Glow-Wire Capable | No |
| Keying to Mating Part | Yes |
| Lock to Mating Part | None |
| Material - Resin | Polyester |
| Net Weight | 0.095/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 |

Solder Process Data

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

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|---|-------------------------------|
| Milli-Grid Vertical Through Hole Headers | <u>87758</u> |
| Milli-Grid Vertical Surface Mount Headers | <u>87759</u> |
| Milli-Grid Right-Angle Through Hole Headers | <u>87760</u> |
| Milli-Grid Vertical, Dual Row, Through Hole Headers | <u>87831</u> |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers | <u>87832</u> |
| Milli-Grid BMI Vertical, Dual Row, Through Hole Headers | <u>151013</u> |
| Milli-Grid Vertical, Dual Row, Through Hole Headers | <u>151117</u> |
| Milli-Grid Vertical, Dual Row, Surface Mount Headers | <u>151118</u> |
| Milli-Grid Right-Angle, Dual Row, Through Hole Headers | <u>151119</u> |
| Milli-Grid Right-Angle, Dual Row, Surface Mount Headers | <u>151120</u> |
| Milli-Grid Right-Angle Dual Row Through Hole Headers | <u>87833</u> |

Use with Part(s)

| Description | Part Number |
|--|---|
| Pre-Crimped Lead Milli-Grid Female-to-Milli-Grid Female, Gold (Au) Plating, 150.00mm Length, 24 AWG, Black | <u>/content/molex/molex-dot-com/us/en/products/product-page-pdf.html/797581095.html</u> |
| Pre-Crimped Lead Milli-Grid Female-to-Milli-Grid Female, Gold (Au) Plating, 300.00mm Length, 24 AWG, Black | <u>/content/molex/molex-dot-com/us/en/products/product-page-pdf.html/797581096.html</u> |

| | |
|-----------------------------------|--------------|
| Milli-Grid Female Crimp Terminals | <u>50394</u> |
| Milli-Grid Female Crimp Terminals | <u>87396</u> |