# molex

Part Number : 39013089

Product Description : Mini-Fit Jr. Plug Housing, Dual Row, 8 Circuits, UL 94V-0, without Panel Mounting Ears, Natural

Series Number : 5559

Status : Active

Product Category : Connector Housings

Engineering Number : 5559-08P1-210

## Documents & Resources

### Drawings
Drawing  039013089_sd.pdf

### 3D Models and Design Files
3D Model  039013089_stp.zip

### Specifications
Application Specification  AS-5557-001-001.pdf
Application Specification  55560001-AS-000.pdf
Packaging Specification  PK-5559-002-001.pdf
Product Specification  PS-45750-001-001.pdf
Product Specification  PS-5556-001-001.pdf
Test Summary  55560010-TS-000.pdf
Test Summary  TS-5556-002-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | ♻ |
| EU ELV | Not Relevant |
| Low-Halogen Status | 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 | 5559 |
| Description | Mini-Fit Jr. Plug Housing, Dual Row, 8 Circuits, UL 94V-0, without Panel Mounting Ears, Natural |
| Application | Power, Wire-to-Board, Wire-to-Wire |
| Comments | Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 series terminals crimped to 16 AWG wire. See Molex product specification PS-45750-001 for additional current derating information. |
| Product Family | Mini-Fit Family Power Connectors |
| Product Name | Mini-Fit Jr. |
| UPC | 800754203951 |

### Agency

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

### Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (maximum) | 8 |
| Color - Resin | Natural |
| Flammability | 94V-0 |
| Gender | Plug |
| Glow-Wire Capable | No |

| | |
|---|---|
| Keying to Mating Part | None |
| Lock to Mating Part | Yes |
| Material - Resin | Nylon |
| Net Weight | 2.400/g |
| Number of Rows | 2 |
| Packaging Type | Bag |
| Panel Mount | No |
| Pitch - Mating Interface | 4.20mm |
| Pitch - Termination Interface | 4.20mm |
| Polarized to Mating Part | Yes |
| Stackable | No |
| Temperature Range - Operating | -40° to +105°C |

## Solder Process Data

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

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# Mates With / Use With

## Mates with Part(s)

| Description | Part Number |
|---|---|
| Mini-Fit Jr. Receptacle Housing, Dual Row, 8 Circuits, UL 94V-0, Natural | 39012085 |
| Mini-Fit TPA2-to-Mini-Fit TPA2 Off-the-Shelf (OTS) Cable Assemblies | 45135 |
| Mini-Fit Jr.-to-Mini-Fit Jr. Off-the-Shelf (OTS) Overmolded Cable Assemblies | 245135 |

## Use with Part(s)

| Description | Part Number |
|---|---|
| Pre-Crimped Lead Mini-Fit Male-to-Mini-Fit Male, Tin (Sn) Plating, 150.00mm Length, 18 AWG, Red | /content/molex/molex-dot-com/us/en/products/product-page.html/797580005.html |
| Pre-Crimped Lead Mini-Fit Male-to-Mini-Fit Male, Tin (Sn) Plating, 300.00mm Length, 18 AWG, Red | /content/molex/molex-dot-com/us/en/products/product-page.html/797580013.html |
| Mini-Fit Male Crimp Terminals | 5558 |

| | |
|---|---|
| Mini-Fit Plus Male Crimp Terminals | 46012 |
| Mini-Fit Jr. Crimp Grounding Terminals | 30490 |
| Mini-Fit Jr. Hermaphroditic Backshells | 204723 |