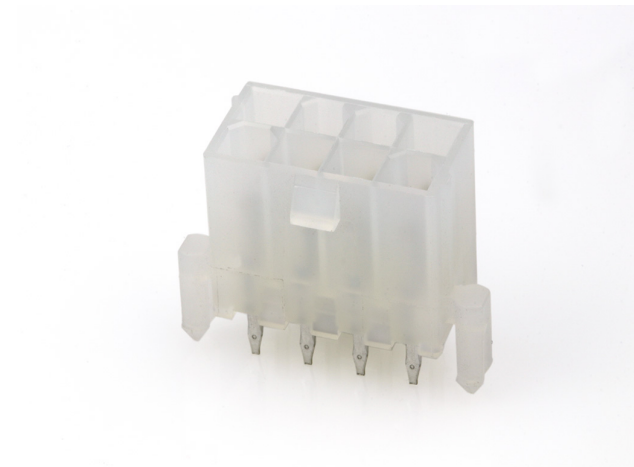




**Part Number :** [39306087](#)  
**Product Description :** Mini-Fit Jr. Vertical Header, 4.20mm Pitch, Dual Row, 8 Circuits, with Snap-in Plastic Peg PCB Lock, Tin, Natural  
**Series Number :** 5566  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Engineering Number :** 5566-08B2S



Documents & Resources

Drawings

[039306087\\_sd.pdf](#)  
[PK-5566-001-001.pdf](#)

3D Models and Design Files

[039306087\\_stp.zip](#)

Specifications

[AS-5557-001-001.pdf](#)  
[AS-5566-001-001.pdf](#)  
[PS-5556-001-001.pdf](#)  
[TS-5556-002-001.pdf](#)  
[TS-5566-002-001.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)7663-DC (21 Jan 2025) |
| 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

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## Part Details

### General

|                |                                                                                                                                                                                                                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                                                                                                                                                                                                  |
| Category       | PCB Headers and Receptacles                                                                                                                                                                                                                                                                             |
| Series         | 5566                                                                                                                                                                                                                                                                                                    |
| Description    | Mini-Fit Jr. Vertical Header, 4.20mm Pitch, Dual Row, 8 Circuits, with Snap-in Plastic Peg PCB Lock, Tin, Natural                                                                                                                                                                                       |
| Application    | Power, Wire-to-Board                                                                                                                                                                                                                                                                                    |
| Comments       | The 5566 header should be used with standard Mini-Fit female terminals. If increased amperage of up to 13A per circuit is needed, please consider using the Mini-Fit Plus HCS family 45750 terminals with 46015 headers; See Molex Product specification PS-5666-001 for current de-rating information. |
| Component Type | PCB Header                                                                                                                                                                                                                                                                                              |
| Product Name   | Mini-Fit Jr.                                                                                                                                                                                                                                                                                            |
| UPC            | 822350910330                                                                                                                                                                                                                                                                                            |

### Agency

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

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 9.0A |
|-------------------------------|------|

|                   |      |
|-------------------|------|
| Voltage - Maximum | 600V |
|-------------------|------|

## Physical

|                                |                |
|--------------------------------|----------------|
| Breakaway                      | No             |
| Circuits (Loaded)              | 8              |
| Circuits (maximum)             | 8              |
| Color - Resin                  | Natural        |
| Durability (mating cycles max) | 30             |
| First Mate / Last Break        | No             |
| Flammability                   | 94V-2          |
| Glow-Wire Capable              | No             |
| Guide to Mating Part           | No             |
| Keying to Mating Part          | None           |
| Lock to Mating Part            | Yes            |
| Material - Metal               | Brass          |
| Material - Plating Mating      | Tin            |
| Material - Plating Termination | Tin            |
| Material - Resin               | Nylon          |
| Net Weight                     | 1.746/g        |
| Number of Rows                 | 2              |
| Orientation                    | Vertical       |
| Packaging Type                 | Tray           |
| PC Tail Length                 | 3.50mm         |
| PCB Locator                    | Yes            |
| PCB Retention                  | Yes            |
| PCB Thickness - Recommended    | 1.60mm         |
| Pitch - Mating Interface       | 4.20mm         |
| Pitch - Termination Interface  | 4.20mm         |
| Plating min - Mating           | 2.540µm        |
| Plating min - Termination      | 2.540µm        |
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |
| Shrouded                       | Fully          |
| Stackable                      | No             |
| Temperature Range - Operating  | -40° to +105°C |

|                             |              |
|-----------------------------|--------------|
| Termination Interface Style | Through Hole |
|-----------------------------|--------------|

## Solder Process Data

|                              |      |
|------------------------------|------|
| Max-Duration                 | 5    |
| Lead-Free Process Capability | WAVE |
| Max-Cycle                    | 1    |
| Max-Temp                     | 240  |

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## Mates With / Use With

### Mates with Part(s)

| Description                                                                  | Part Number   |
|------------------------------------------------------------------------------|---------------|
| Mini-Fit Jr. Receptacle Housings                                             | <u>5557</u>   |
| Mini-Fit TPA2-to-Mini-Fit TPA2 Off-the-Shelf (OTS) Cable Assemblies          | <u>45135</u>  |
| Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Receptacle Housings                | <u>172708</u> |
| Mini-Fit Jr.-to-Mini-Fit Jr. Off-the-Shelf (OTS) Overmolded Cable Assemblies | <u>245135</u> |

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