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**Part Number:** [0039310100](#)  
**Status:** **Active**  
**Overview:** [Mini-Fit Family Power Connectors](#)  
**Description:** Mini-Fit Jr. Vertical Header, 4.20mm Pitch, Dual Row, 10 Circuits, without Snap-in Plastic Peg PCB Lock, Tin, Natural

**Documents:**

|                                                                 |                                                                 |
|-----------------------------------------------------------------|-----------------------------------------------------------------|
| <a href="#">Drawing (PDF)</a>                                   | <a href="#">Application Specification AS-5566-001-001 (PDF)</a> |
| <a href="#">3D Model</a>                                        | <a href="#">Packaging Specification PK-5566-000 (PDF)</a>       |
| <a href="#">3D Model (PDF)</a>                                  | <a href="#">Packaging Specification PK-5566-003-001 (PDF)</a>   |
| <a href="#">Product Specification PS-5556-001-001 (PDF)</a>     | <a href="#">RoHS Certificate of Compliance (PDF)</a>            |
| <a href="#">Application Specification AS-5557-001-001 (PDF)</a> |                                                                 |

**Agency Certification**

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

**General**

|                |                                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Family | PCB Headers                                                                                                                                                                                                                                                                                                                               |
| Series         | <a href="#">5566</a>                                                                                                                                                                                                                                                                                                                      |
| 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 <a href="#">45750</a> terminals with <a href="#">46015</a> headers; . See Molex Product specification PS-5666-001 for current de-rating information. |
| Overview       | <a href="#">Mini-Fit Family Power Connectors</a>                                                                                                                                                                                                                                                                                          |
| Product Name   | Mini-Fit Jr.                                                                                                                                                                                                                                                                                                                              |
| UPC            | 800754381321                                                                                                                                                                                                                                                                                                                              |

**Physical**

|                                |          |
|--------------------------------|----------|
| Breakaway                      | No       |
| Circuits (Loaded)              | 10       |
| Circuits (maximum)             | 10       |
| Color - Resin                  | Natural  |
| Durability (mating cycles max) | 30       |
| First Mate / Last Break        | No       |
| Flammability                   | 94V-0    |
| 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                     | 2.819/g  |
| Number of Rows                 | 2        |
| Orientation                    | Vertical |
| PC Tail Length                 | 3.50mm   |
| PCB Locator                    | Yes      |
| PCB Retention                  | None     |
| PCB Thickness - Recommended    | 1.60mm   |
| Packaging Type                 | Bag      |
| Pitch - Mating Interface       | 4.20mm   |
| Pitch - Termination Interface  | 4.20mm   |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[5566](#) Series

**Mates With**

Mini-Fit Jr. Receptacle Housing [5557](#)  
<br>Mini-Fit Jr. Cable Assembly [245135](#) ,  
Mini-Fit TPA2 Receptacle Housing [172708](#)

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| Plating min - Mating                           | 0.889μm                          |
| Plating min - Termination                      | 0.889μm                          |
| Polarized to Mating Part                       | Yes                              |
| Polarized to PCB                               | Yes                              |
| Shrouded                                       | Fully                            |
| Stackable                                      | No                               |
| Surface Mount Compatible (SMC)                 | No                               |
| Temperature Range - Operating                  | -40° to +105°C                   |
| Termination Interface: Style                   | Through Hole                     |
| <b>Electrical</b>                              |                                  |
| Current - Maximum per Contact                  | 9.0A                             |
| Voltage - Maximum                              | 600V                             |
| <b>Solder Process Data</b>                     |                                  |
| Duration at Max. Process Temperature (seconds) | 005                              |
| Lead-freeProcess Capability                    | WAVE                             |
| Max. Cycles at Max. Process Temperature        | 001                              |
| Process Temperature max. C                     | 240                              |
| <b>Material Info</b>                           |                                  |
| Engineering Number                             | 5566-10B-210                     |
| <b>Reference - Drawing Numbers</b>             |                                  |
| Application Specification                      | AS-5557-001-001, AS-5566-001-001 |
| Packaging Specification                        | PK-5566-000, PK-5566-003-001     |
| Product Specification                          | PS-5556-001-001                  |
| Sales Drawing                                  | SD-5566-002-000                  |

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