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**Part Number:** [0039281203](#)  
**Status:** **Active**  
**Overview:** Mini-Fit Jr. Power Connectors  
**Description:** Mini-Fit Jr. Vertical Header, 4.20mm Pitch, Dual Row, 20 Circuits, without Snap-in Plastic Peg PCB Lock, Tin, Natural

**Documents:**

|                                                             |                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------|
| <a href="#">3D Model</a>                                    | <a href="#">Application Specification AS-5557-001-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                               | <a href="#">Packaging Specification PK-5566-000 (PDF)</a>       |
| <a href="#">Product Specification PS-5556-001 (PDF)</a>     | <a href="#">Packaging Specification PK-5566-003-001 (PDF)</a>   |
| <a href="#">Product Specification TS-5556-002-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (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 Jr. Power Connectors</a>                                                                                                                                                                                                                                                                                             |
| Product Name   | Mini-Fit Jr.                                                                                                                                                                                                                                                                                                                              |
| UPC            | 800753581654                                                                                                                                                                                                                                                                                                                              |

**Physical**

|                                |          |
|--------------------------------|----------|
| Breakaway                      | No       |
| Circuits (Loaded)              | 20       |
| Circuits (maximum)             | 20       |
| Color - Resin                  | Natural  |
| Durability (mating cycles max) | 30       |
| First Mate / Last Break        | No       |
| Flammability                   | 94V-2    |
| Glow-Wire Compliant            | 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                     | 5.238/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   |
| Plating min - Mating           | 0.889µm  |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**China RoHS**

**REACH SVHC**

Not Contained Per -  
ED/30/2017 (7 July  
2017)

**Halogen-Free  
Status**

**Low-Halogen**

**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

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

**Search Parts in this Series**

[5566 Series](#)

**Mates With**

[5557](#) Mini-Fit Jr. Receptacle Housing

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
| 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°C 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                             | 5566-20A                                       |
| <b>Reference - Drawing Numbers</b>             |                                                |
| Application Specification                      | AS-5557-001-001                                |
| Packaging Specification                        | PK-5566-000, PK-5566-003-001                   |
| Product Specification                          | PS-5556-001, RPS-5556-004-001, TS-5556-002-001 |
| Sales Drawing                                  | SD-5566-002-000                                |

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