



**Part Number :** [39281063](#)  
**Product Description :** Mini-Fit Jr. Vertical Header,  
4.20mm Pitch, Dual Row, 6 Circuits, without Snap-in  
Plastic Peg PCB Lock, Tin, Natural  
**Series Number :** 5566  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Engineering Part Number :** 5566-06A



## Documents and Resources

### Drawings

[039281063 sd.pdf](#)  
[PK-5566-000.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)  
[SOLIDWORKS](#)  
[Creo](#)  
[Symbol and Footprint \(Multi-Format\)](#)

### Specifications

[AS-5557-001-001.pdf](#)  
[PK-5566-003-001.pdf](#)  
[PS-5556-001-001.pdf](#)  
[TS-5556-002-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44                                                                             |
| China RoHS         |  per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                            |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                          |
| REACH SVHC         | Not Contained per D(2025)7771-DC (04 Feb 2026)                                                          |

EU RoHS

Compliant per EU 2015/863

### Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

### Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

### Substances of Interest

- PFAS

### EU RoHS Certificate of Compliance

### Additional Product Compliance Information

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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, 6 Circuits, without Snap-in Plastic Peg PCB Lock, Tin, Natural                                                                                                                                                                                    |
| Application    | 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            | 800753628700                                                                                                                                                                                                                                                                                            |

## Agency

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

## Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 9.0A |
| Voltage - Maximum             | 600V |

## Physical

|                                |              |
|--------------------------------|--------------|
| Breakaway                      | No           |
| Circuits (Loaded)              | 6            |
| Circuits (maximum)             | 6            |
| 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          | No           |
| Lock to Mating Part            | Yes          |
| Material - Metal               | Brass        |
| Material - Plating Mating      | Tin          |
| Material - Plating Termination | Tin          |
| Material - Resin               | Nylon        |
| Mounting Style                 | Through Hole |
| Net Weight                     | 1.410/g      |
| Number of Rows                 | 2            |
| Orientation                    | Vertical     |
| Packaging Type                 | Bag          |
| PCB Locator                    | Yes          |
| PCB Retention                  | No           |
| PCB Thickness - Recommended    | 1.60mm       |
| PC Tail Length                 | 3.50mm       |
| Pitch - Mating Interface       | 4.20mm       |
| Pitch - Termination Interface  | 4.20mm       |

|                               |                |
|-------------------------------|----------------|
| Plating min - Mating          | 0.889µm        |
| Plating min - Termination     | 0.889µm        |
| Polarized to Mating Part      | Yes            |
| Polarized to PCB              | Yes            |
| Shrouded                      | Shrouded       |
| 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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