



**Part Number :** [457180002](#)  
**Product Description :** Mini-Fit Jr. PCI Express\*, High End Graphics Add-In Card Applications Only, 6 Circuits  
**Series Number :** 45718  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles



## Documents & Resources

### Drawings

[457180002\\_sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

### Specifications

[PS-45558-001-001.pdf](#)

[TS-5556-002-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>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)4165-DC<br>(25 June 2025)                                                           |
| 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         | 45718                                                                                                                                                                                                                                     |
| Description    | Mini-Fit Jr. PCI Express*, High End Graphics Add-In Card Applications Only, 6 Circuits                                                                                                                                                    |
| Application    | Power, Wire-to-Board                                                                                                                                                                                                                      |
| Comments       | Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire. See Molex product specification PS-45750-001 for additional current de-rating information. |
| Component Type | PCB Header                                                                                                                                                                                                                                |
| Product Name   | Mini-Fit Jr.                                                                                                                                                                                                                              |
| UPC            | 822348247097                                                                                                                                                                                                                              |

### Agency

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

### Electrical

|                               |       |
|-------------------------------|-------|
| Current - Maximum per Contact | 13.0A |
|-------------------------------|-------|

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

## Physical

|                                |                 |
|--------------------------------|-----------------|
| Breakaway                      | No              |
| Circuits (Loaded)              | 6               |
| Circuits (maximum)             | 6               |
| Color - Resin                  | Natural (White) |
| Durability (mating cycles max) | 30              |
| First Mate / Last Break        | No              |
| Flammability                   | 94V-0           |
| Glow-Wire Capable              | No              |
| Material - Metal               | Brass           |
| Material - Plating Mating      | Tin             |
| Material - Plating Termination | Tin             |
| Material - Resin               | Nylon           |
| Net Weight                     | 1.799/g         |
| Number of Rows                 | 2               |
| Orientation                    | Vertical        |
| Packaging Type                 | Tray            |
| PCB Locator                    | Yes             |
| PCB Retention                  | Yes             |
| PCB Thickness - Recommended    | 1.80mm          |
| PC Tail Length                 | 3.71mm          |
| Pitch - Mating Interface       | 4.20mm          |
| Plating min - Mating           | 2.540µm         |
| Plating min - Termination      | 2.540µm         |
| Polarized to PCB               | Yes             |
| Shrouded                       | Partial         |
| 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  | 260 |

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**Mates With / Use With**

**Mates with Part(s)**

| Description                                                                                                                 | Part Number      |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| Mini-Fit Jr. Receptacle Housing,<br>Dual Row, Custom for PCI Express*<br>High-end Graphics Add-In Card<br>Applications Only | <u>455590002</u> |