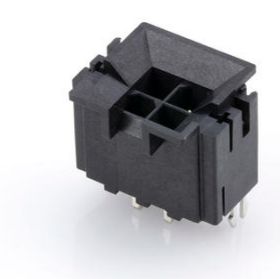




**Part Number :** [440680001](#)  
**Product Description :** Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, for 1.60mm PCB Thickness, 4 Circuits, Tin (Sn) Plating, with Retention Clip  
**Series Number :** 44068  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles



## Documents and Resources

### Drawings

[440680001 sd.pdf](#)  
[PK-43879-001-000.pdf](#)

### 3D Models and Design Files

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

### Specifications

[PS-43810-001-001.pdf](#)  
[PS-45750-001-001.pdf](#)  
[TS-43879-001-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                            |
| China RoHS         |  per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                            |
| Low-Halogen Status | Not 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         | 44068                                                                                                                                                                                                                                     |
| Description    | Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, for 1.60mm PCB Thickness, 4 Circuits, Tin (Sn) Plating, with Retention Clip                                                                                                        |
| Application    | Board-to-Board, 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 BMI                                                                                                                                                                                                                              |
| UPC            | 800754961813                                                                                                                                                                                                                              |

### Agency

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

## Electrical

|                               |       |
|-------------------------------|-------|
| Current - Maximum per Contact | 13.0A |
| Voltage - Maximum             | 600V  |

## Physical

|                                |              |
|--------------------------------|--------------|
| Breakaway                      | No           |
| Circuits (Loaded)              | 4            |
| Circuits (maximum)             | 4            |
| Color - Resin                  | Black        |
| Durability (mating cycles max) | 30           |
| First Mate / Last Break        | No           |
| Gender                         | Male         |
| Glow-Wire Capable              | No           |
| Guide to Mating Part           | Yes          |
| 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                     | 3.033/g      |
| Number of Rows                 | 2            |
| Orientation                    | Vertical     |
| Packaging Type                 | Tray         |
| PCB Locator                    | No           |
| PCB Retention                  | Yes          |
| PCB Thickness - Recommended    | 1.60mm       |
| PC Tail Length                 | 3.30mm       |
| 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                      | 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.-to-Mini-Fit Jr. Off-the-Shelf (OTS) Overmolded Cable Assemblies | <a href="#"><u>245135</u></a> |
| Mini-Fit BMI Vertical Dual Row Receptacle Headers                            | <a href="#"><u>42385</u></a>  |
| Mini-Fit BMI Dual Row Receptacle Housings                                    | <a href="#"><u>42474</u></a>  |
| Mini-Fit HCS Vertical Dual Row PCB Receptacles                               | <a href="#"><u>44475</u></a>  |
| Mini-Fit BMI Dual Row Receptacle Housings                                    | <a href="#"><u>44516</u></a>  |
| Mini-Fit Jr. Receptacle Housings                                             | <a href="#"><u>5557</u></a>   |

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