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**Part Number:** [0437590001](#)  
**Status:** **Active**  
**Overview:** Mini-Fit BMI Connectors  
**Description:** Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Right-Angle, with Snap-in Plastic Peg PCB Lock, 36 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, with Tin (Sn) Plating

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                     | <a href="#">Packaging Specification PK-42404-002-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                | <a href="#">Test Summary TS-42404-001-001 (PDF)</a>            |
| <a href="#">3D Model (PDF)</a>                               | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |
| <a href="#">Product Specification 437590001-PS-000 (PDF)</a> |  |

**Agency Certification**

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

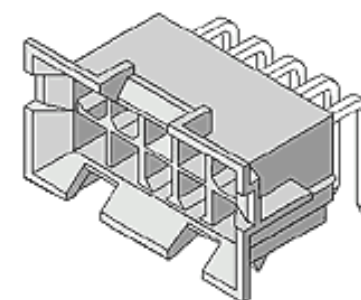
**General**

|                |  |
|----------------|--|
| Product Family | PCB Headers  |
| Series         | <a href="#">43759</a>  |
| Application    | Board-to-Board, Power, Wire-to-Board   |
| Comments       | Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire., See Molex product specification PS-45750-001 for additional current de-rating information. |

|              |   |
|--------------|---|
| Overview     | <a href="#">Mini-Fit BMI Connectors</a> |
| Product Name | Mini-Fit BMI                            |
| UPC          | 800753683334                            |

**Physical**

|                                |             |
|--------------------------------|-------------|
| Breakaway                      | No          |
| Circuits (Loaded)              | 36          |
| Circuits (maximum)             | 36          |
| Color - Resin                  | Natural     |
| Durability (mating cycles max) | 30          |
| First Mate / Last Break        | Yes         |
| Flammability                   | 94V-2       |
| Glow-Wire Capable              | No          |
| Guide to Mating Part           | No          |
| Keying to Mating Part          | None        |
| Lock to Mating Part            | None        |
| Material - Metal               | Brass       |
| Material - Plating Mating      | Tin         |
| Material - Plating Termination | Tin         |
| Material - Resin               | Nylon       |
| Net Weight                     | 15.119/g    |
| Number of Rows                 | 2           |
| Orientation                    | Right Angle |
| PC Tail Length                 | 3.30mm      |
| PCB Locator                    | Yes         |
| PCB Retention                  | Yes         |
| PCB Thickness - Recommended    | 1.80mm      |
| Packaging Type                 | Tray        |
| Pitch - Mating Interface       | 4.20mm      |
| Pitch - Termination Interface  | 4.20mm      |
| Plating min - Mating           | 2.540µm     |
| Plating min - Termination      | 2.540µm     |



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

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[43759](#) Series

**Mates With**

[43760](#) Mini-Fit BMI Panel Mount Receptacle,  
[44516](#) Mini-Fit BMI Slide-and-Lock Panel  
Mount Receptacle

|                                |                |
|--------------------------------|----------------|
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |
| Shrouded                       | Partial        |
| Stackable                      | No             |
| Surface Mount Compatible (SMC) | No             |
| Temperature Range - Operating  | -40° to +105°C |
| Termination Interface: Style   | Through Hole   |

**Electrical**

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

**Solder Process Data**

|  |      |
|--|------|
| Duration at Max. Process Temperature (seconds) | 005  |
| Lead-free Process Capability                   | WAVE |
| Max. Cycles at Max. Process Temperature        | 001  |
| Process Temperature max. C                     | 235  |

**Material Info****Reference - Drawing Numbers**

|                         |                  |
|-------------------------|------------------|
| Packaging Specification | PK-42404-002-001 |
| Product Specification   | 437590001-PS-000 |
| Sales Drawing           | SDA-43759-X-001  |
| Test Summary            | TS-42404-001-001 |

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