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**Part Number:** [0438100017](#)  
**Status:** **Active**  
**Overview:** [Mini-Fit BMI Connectors](#)  
**Description:** Mini-Fit BMI Header, Dual Row, Right-Angle, for 1.60mm PCB, 14 Circuits, Gold (Au) Plating, 260C Wave Solderable, with Retention Clip

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-43810-001-001 \(PDF\)](#)  
[Product Specification PS-45750-001-001 \(PDF\)](#)  
[Packaging Specification PK-43810-001-000 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

|                                |                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Agency Certification</b>    |                                                                                                                                                                                                                                                            |
| CSA                            | LR19980                                                                                                                                                                                                                                                    |
| UL                             | E29179                                                                                                                                                                                                                                                     |
| <b>General</b>                 |                                                                                                                                                                                                                                                            |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                                |
| Series                         | <a href="#">43810</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                            | 800753295896                                                                                                                                                                                                                                               |
| <b>Physical</b>                |                                                                                                                                                                                                                                                            |
| Breakaway                      | No                                                                                                                                                                                                                                                         |
| Circuits (Loaded)              | 14                                                                                                                                                                                                                                                         |
| Circuits (maximum)             | 14                                                                                                                                                                                                                                                         |
| Color - Resin                  | Black                                                                                                                                                                                                                                                      |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                                         |
| Flammability                   | 94V-0                                                                                                                                                                                                                                                      |
| Glow-Wire Capable              | No                                                                                                                                                                                                                                                         |
| Material - Metal               | Brass                                                                                                                                                                                                                                                      |
| Material - Plating Mating      | Gold                                                                                                                                                                                                                                                       |
| Material - Plating Termination | Tin                                                                                                                                                                                                                                                        |
| Material - Resin               | High Temperature Thermoplastic                                                                                                                                                                                                                             |
| Net Weight                     | 8.065/g                                                                                                                                                                                                                                                    |
| Number of Rows                 | 2                                                                                                                                                                                                                                                          |
| Orientation                    | Right Angle                                                                                                                                                                                                                                                |
| PC Tail Length                 | 3.12mm                                                                                                                                                                                                                                                     |
| PCB Locator                    | No                                                                                                                                                                                                                                                         |
| PCB Retention                  | Yes                                                                                                                                                                                                                                                        |
| PCB Thickness - Recommended    | 1.60mm                                                                                                                                                                                                                                                     |
| Packaging Type                 | Tray                                                                                                                                                                                                                                                       |
| Pitch - Mating Interface       | 4.20mm                                                                                                                                                                                                                                                     |
| Pitch - Termination Interface  | 4.20mm                                                                                                                                                                                                                                                     |
| Plating min - Mating           | 0.762µm                                                                                                                                                                                                                                                    |
| Plating min - Termination      | 2.540µm                                                                                                                                                                                                                                                    |
| Polarized to Mating Part       | Yes                                                                                                                                                                                                                                                        |
| Polarized to PCB               | Yes                                                                                                                                                                                                                                                        |
| Shrouded                       | Fully                                                                                                                                                                                                                                                      |
| Stackable                      | No                                                                                                                                                                                                                                                         |
| Surface Mount Compatible (SMC) | Yes                                                                                                                                                                                                                                                        |



Series image - Reference only

|                                                                                                                                                                                                                                                   |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>EU ELV</b><br><b>Not Relevant</b>                                                                                                                                                                                                              |                                              |
| <b>EU RoHS</b><br><b>Compliant</b><br><b>REACH SVHC</b><br>Not Contained Per -<br>ED/61/2018 (27 June<br>2018)<br><b>Halogen-Free</b><br><b>Status</b><br><b>Not Low-Halogen</b><br>For more information, please visit <a href="#">Contact US</a> | <b>China RoHS</b>                            |
| China ROHS<br>ELV<br>RoHS Phthalates                                                                                                                                                                                                              | Green Image<br>Not Relevant<br>Not Contained |

**Search Parts in this Series**  
[43810](#) Series

**Mates With**  
[42385](#) , [42474](#) , [44475](#) , [44516](#) , [5557](#) Dual Row

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Temperature Range - Operating                  | -40° to +105°C                     |
| Termination Interface: Style                   | Through Hole                       |
| <b>Electrical</b>                              |                                    |
| Current - Maximum per Contact                  | 13.0A                              |
| Voltage - Maximum                              | 600V AC (RMS)/DC                   |
| <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                     | 260                                |
| <b>Material Info</b>                           |                                    |
| <b>Reference - Drawing Numbers</b>             |                                    |
| Packaging Specification                        | PK-43810-001-000                   |
| Product Specification                          | PS-43810-001-001, PS-45750-001-001 |
| Sales Drawing                                  | SD-43810-011-000                   |

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