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Part Number: [0438100045](#)
Status: **Active**
Overview: Mini-Fit BMI Connectors
Description: Mini-Fit BMI Header, Dual Row, Right-Angle, for 2.39mm PCB, 4 Circuits, Tin (Sn) Plating, 260C Wave Solderable, with Retention Clip

Documents:

| | |
|--|--|
| 3D Model | Product Specification PS-45750-001-001 (PDF) |
| Drawing (PDF) | Packaging Specification PK-43810-001-000 (PDF) |
| Product Specification PS-43810-001-001 (PDF) | RoHS Certificate of Compliance (PDF) |

Agency Certification

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

General

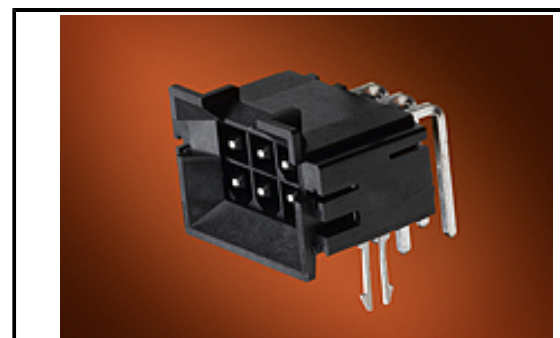
| | |
|---------------------|--|
| Product Family | PCB Headers |
| Series | 43810 |
| 3D Viewer | Yes |
| Application | Board-to-Board, Power, Wire-to-Board |
| CURRENT-MAX-NUMERIC | 13.0 |
| Comments | Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire., See Molex product specification PS-45750-001 for additional current de-rating information. |
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Overview

| | |
|----------------------|---|
| PITCH-MATING-NUMERIC | Mini-Fit BMI Connectors |
| Product Name | 4.20 |
| UPC | Mini-Fit BMI |
| | 800753295841 |

Physical

| | |
|--------------------------------|--------------------------------|
| Breakaway | No |
| Circuits (Loaded) | 4 |
| Circuits (maximum) | 4 |
| Color - Resin | Black |
| Durability (mating cycles max) | 30 |
| Flammability | 94V-0 |
| Glow-Wire Capable | No |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 3.507/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PC Tail Length | 3.63mm |
| PCB Locator | No |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 2.39mm (.094") |
| Packaging Type | Tray |
| Pitch - Mating Interface | 4.20mm |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -ED/88/2018 (15 January 2019)

Halogen-Free

Status

Not 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

[43810](#) Series

Mates With

[42385](#) , [42474](#) , [44475](#) , [44516](#) , [5557](#) Dual Row, [245135](#) Mini-Fit Jr. Cable Assembly

| | |
|--------------------------------|----------------|
| 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 | Fully |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface: Style | Through Hole |

Electrical

| | |
|-------------------------------|------------------|
| Current - Maximum per Contact | 13.0A |
| Voltage - Maximum | 600V AC (RMS)/DC |

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 | 240 |

Material Info**Reference - Drawing Numbers**

| | |
|-------------------------|------------------------------------|
| Packaging Specification | PK-43810-001-000 |
| Product Specification | PS-43810-001-001, PS-45750-001-001 |
| Sales Drawing | SD-43810-031-000 |

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