**Part Number :** 438100099
**Product Description :** Mini-Fit BMI Header, Dual Row, Right-Angle, for 3.18mm PCB, 24 Circuits, Tin (Sn) Plating, 260C Wave Solderable, with Retention Clip
**Series Number :** 43810
**Status :** Active
**Product Category :** PCB Headers and Receptacles



## Documents & Resources

### Drawings

438100099_sd.pdf

PK-43810-001-000.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

## 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)4165-DC (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 | 43810 |
| Description | Mini-Fit BMI Header, Dual Row, Right-Angle, for 3.18mm PCB, 24 Circuits, Tin (Sn) Plating, 260C Wave Solderable, with Retention Clip |
| Application | Board-to-Board, 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 BMI |
| UPC | 800753297272 |

### Agency

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

**Electrical**

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

**Physical**

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 24 |
| Circuits (maximum) | 24 |
| Color - Resin | Black |
| 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 | High Temperature Thermoplastic |
| Net Weight | 13.298/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| Packaging Type | Tray |
| PCB Locator | No |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 3.17mm |
| PC Tail Length | 4.50mm |
| 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 | Fully |

| | |
|---|---|
| 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 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Mini-Fit BMI Vertical Dual Row Receptacle Headers | 42385 |
| Mini-Fit BMI Dual Row Receptacle Housings | 42474 |
| Mini-Fit HCS Vertical Dual Row PCB Receptacles | 44475 |
| Mini-Fit BMI Dual Row Receptacle Housings | 44516 |
| Mini-Fit Jr. Receptacle Housings | 5557 |