



Part Number : [15246182](#)

Product Description : Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 18 Circuits, Nylon 6/6 UL 94V-0, Tin (Sn) Plating, without Drain Holes

Series Number : 42440

Status : Active

Product Category : PCB Headers and Receptacles

Engineering Part Number : A-42440-1821



Documents and Resources

Drawings

[015246182_sd.pdf](#)

[PK-42440-001-001.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[SYM-A42440-18XX-001.zip](#)

Specifications

[55560002-PS-CH-000.pdf](#)

[55560002-PS-ES-000.pdf](#)


[55560002-PS-SK-000.pdf](#)

[PS-5556-002-001.pdf](#)

[TS-5556-002-001.pdf](#)

Product Environment Compliance

Compliance

| | |
|------------|---|
| GADSL/IMDS | Compliant with Exemption 33; 34; 44 |
| China RoHS |  per SJ/T 11365-2006 |

| | |
|--------------------|--|
| EU ELV | Not Relevant |
| Low-Halogen Status | 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

Part Details

General

| | |
|-------------|--|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 42440 |
| Description | Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 18 Circuits, Nylon 6/6 UL 94V-0, Tin (Sn) Plating, without Drain Holes |
| 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 | 800754208543 |

Agency

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

Electrical

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

Physical

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|--------------------------------|--------------|
| Breakaway | No |
| Circuits (Loaded) | 18 |
| Circuits (maximum) | 18 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 30 |
| First Mate / Last Break | No |
| Gender | Male |
| Glow-Wire Capable | No |
| Guide to Mating Part | Yes |
| 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 | 4.239/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| Packaging Type | Tray |
| PCB Locator | No |
| PCB Retention | Yes |

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|-------------------------------|----------------|
| PCB Thickness - Recommended | 1.78mm |
| PC Tail Length | 3.50mm |
| 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 | 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 |

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|--|----------------------------------|
| Mini-Fit BMI Receptacle Housing, 4.20mm Pitch, Dual Row with Panel Mount Ears, Nylon, UL 94V-0, 18 Circuits | <u>15060181</u> |
| Mini-Fit BMI Receptacle Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-In Plastic Pegs, Brass Terminal, Matte Tin (Sn) Plating, Nylon UL 94V-0, 18 Circuits | <u>15247181</u> |
| Mini-Fit Jr. Receptacle Housing, Dual Row, 18 Circuits, UL 94V-0, Natural | <u>39012185</u> |
| Mini-Fit BMI Receptacle Housing, 4.20mm Pitch, Dual Row, Panel | <u>445160009</u> |

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|---|--|
| Mount, Slide-and-Lock, Nylon 6/6 UL 94V-0, 18 Circuits | |
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