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Part Number:

0015246241

Status:

Active

Overview:

Mini-Fit BMI Connectors

Description:

Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, Tin (Sn) Plating, without Drain Holes

Documents:

3D Model

Drawing (PDF)

Product Specification PS-5556-002-001 (PDF)

Test Summary TS-5556-002-001 (PDF)

RoHS Certificate of Compliance (PDF)



Series image - Reference only

Agency Certification

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

General

|                      |                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Family       | PCB Headers                                                                                                                                                                                                                                |
| Series               | 42440                                                                                                                                                                                                                                      |
| 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. |
| 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. |
| Overview             | Mini-Fit BMI Connectors                                                                                                                                                                                                                    |
| PITCH-MATING-NUMERIC | 4.20                                                                                                                                                                                                                                       |
| Product Name         | Mini-Fit BMI                                                                                                                                                                                                                               |
| UPC                  | 800753689091                                                                                                                                                                                                                               |

Physical

|                                |          |
|--------------------------------|----------|
| Breakaway                      | No       |
| Circuits (Loaded)              | 24       |
| Circuits (maximum)             | 24       |
| Color - Resin                  | Natural  |
| Durability (mating cycles max) | 30       |
| Flammability                   | 94V-2    |
| 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    |
| Net Weight                     | 5.433/g  |
| Number of Rows                 | 2        |
| Orientation                    | Vertical |
| PC Tail Length                 | 3.56mm   |
| PCB Locator                    | Yes      |
| PCB Retention                  | Yes      |

EU ELV

Not Relevant

EU RoHS

Compliant

China RoHS

REACH SVHC

Not Contained Per - ED/71/2019 (16 July 2019)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

Search Parts in this Series

42440 Series

Mates With

15060240 Mini-Fit BMI Panel Mount Receptacle, 39012240 Mini-Fit Jr. Receptacle, 15247240 Mini-Fit BMI Vertical Receptacle Header

|                                                |                 |
|------------------------------------------------|-----------------|
| PCB Thickness - Recommended                    | 1.80mm          |
| Packaging Type                                 | Tray            |
| Pitch - Mating Interface                       | 4.20mm          |
| Plating min - Mating                           | 2.540μm         |
| Plating min - Termination                      | 2.540μm         |
| 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    |
| <b>Electrical</b>                              |                 |
| Current - Maximum per Contact                  | 13.0A           |
| Voltage - Maximum                              | 600V            |
| <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                     | 240             |
| <b>Material Info</b>                           |                 |
| Engineering Number                             | A-42440-2411    |
| <b>Reference - Drawing Numbers</b>             |                 |
| Product Specification                          | PS-5556-002-001 |
| Sales Drawing                                  | SDA-42440-XXXX  |
| Symbol/Footprint Data                          | SYM-A42440-24XX |
| Test Summary                                   | TS-5556-002-001 |

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