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Part Number: [0015286241](#)
Status: **Active**
Overview: Mini-Fit Family Power 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, Select Gold (Au) Plating, without Drain Holes

Documents:

| | |
|--|---|
| 3D Model | Product Specification PS-5556-002-001 (PDF) |
| 3D Model (PDF) | Packaging Specification PK-42440-001-001 (PDF) |
| Drawing (PDF) | Test Summary TS-5556-002-001 (PDF) |
| Product Specification 55560002-PS-CH-000 (PDF) | Symbol Footprint Data SYM-A42440-24XX-001 (PDF) |
| Product Specification 55560002-PS-ES-000 (PDF) | RoHS Certificate of Compliance (PDF) |
| Product Specification 55560002-PS-SK-000 (PDF) | |

Agency Certification

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

General

| | |
|----------------|--|
| Product Family | PCB Headers |
| Series | 42440 |
| 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. |

Overview [Mini-Fit Family Power Connectors](#)

| | |
|--------------|--------------|
| Product Name | Mini-Fit BMI |
| UPC | 800754912396 |

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 | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Net Weight | 5.288/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length | 3.56mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 1.80mm |
| Packaging Type | Tray |
| Pitch - Mating Interface | 4.20mm |
| Plating min - Mating | 0.762µm |
| Plating min - Termination | 2.540µm |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2021)4569-DC (8
July 2021)

Halogen-Free

Status

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

[42440](#) Series

Mates With

[15060240](#) Mini-Fit BMI Panel Mount Receptacle, [39012240](#) Mini-Fit Jr. Receptacle, [15247242](#) Mini-Fit BMI Vertical Receptacle Header

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

Electrical

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

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

| | |
|--------------------|--------------|
| Engineering Number | A-42440-2412 |
|--------------------|--------------|

Reference - Drawing Numbers

| | |
|-------------------------|--|
| Packaging Specification | PK-42440-001-001 |
| Product Specification | 55560002-PS-CH-000, 55560002-PS-ES-000, 55560002-PS-SK-000, PS-5556-002-001 |
| Sales Drawing | SDA-42440-XXXX-001 |
| Symbol/Footprint Data | SYM-A42440-24XX-001 |
| Test Summary | TS-5556-002-001 |

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