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Part Number:

0015249184

Status:

Active

Overview:

Mini-Fit® Blind Mate Interface (BMI) Connectors

Description:

Mini-Fit® BMI Header, Dual Row, Right Angle, with Snap-in Plastic Peg PCB Lock, 18 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, with Tin (Sn) Plating

Documents:

3D Model

Drawing (PDF)

Product Specification PS-45750-001-001 (PDF)

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

Product Specification TS-42404-001-001 (PDF)

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

RoHS Certificate of Compliance (PDF)

|                                |                                                                                                                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                                                                                                                                             |
| CSA                            | LR19980                                                                                                                                                                                                                                     |
| UL                             | E29179                                                                                                                                                                                                                                      |
| General                        |                                                                                                                                                                                                                                             |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                 |
| Series                         | 42404                                                                                                                                                                                                                                       |
| 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® Blind Mate Interface (BMI) Connectors                                                                                                                                                                                             |
| Product Name                   | Mini-Fit® BMI                                                                                                                                                                                                                               |
| UPC                            | 800753684263                                                                                                                                                                                                                                |
| Physical                       |                                                                                                                                                                                                                                             |
| Breakaway                      | No                                                                                                                                                                                                                                          |
| Circuits (Loaded)              | 18                                                                                                                                                                                                                                          |
| Circuits (maximum)             | 18                                                                                                                                                                                                                                          |
| Color - Resin                  | Natural (White)                                                                                                                                                                                                                             |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                          |
| Flammability                   | 94V-0                                                                                                                                                                                                                                       |
| Glow-Wire Compliant            | 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                     | 7.033/g                                                                                                                                                                                                                                     |
| Number of Rows                 | 2                                                                                                                                                                                                                                           |
| Orientation                    | Right Angle                                                                                                                                                                                                                                 |
| PC Tail Length                 | 3.30mm                                                                                                                                                                                                                                      |
| PCB Locator                    | Yes                                                                                                                                                                                                                                         |
| PCB Retention                  | Yes                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                     |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

China RoHS

Compliant

REACH SVHC

Not Contained Per

-ED/01/2017 (12

January 2017)

Halogen-Free

Status

Low-Halogen

Need more information on product

environmental compliance?

Email productcompliance@molex.com

Please visit the Contact Us section for any

non-product compliance questions.

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

Search Parts in this Series

42404 Series

Mates With

15-06-0181 Mini-Fit® BMI Panel Mount

Receptacle, 39-01-2185 Mini-Fit Jr.™

Receptacle, 15-24-7181 Mini-Fit® BMI

Vertical Receptacle Header, 44516-0009

Mini-Fit® BMI Slide-and-Lock Panel Mount

Receptacle

|                                |                 |
|--------------------------------|-----------------|
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -40°C 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-freeProcess Capability                    | WAVE |
| Max. Cycles at Max. Process Temperature        | 001  |
| Process Temperature max. C                     | 240  |

**Material Info**

|                    |              |
|--------------------|--------------|
| Engineering Number | A-42404-18B1 |
|--------------------|--------------|

**Reference - Drawing Numbers**

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Product Specification | PS-45750-001-001, PS-5556-002-001,<br>TS-42404-001-001, TS-5556-002-001 |
| Sales Drawing         | SDA-42404-****                                                          |

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