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Part Number:

0438100012

Status:

Active

Overview:

Mini-Fit Family Power Connectors

Description:

Mini-Fit BMI Header, Dual Row, Right-Angle, for 1.60mm PCB, 4 Circuits, Gold (Au) Plating, 260C Wave Solderable, with Retention Clip

Documents:

3D Model (PDF)

3D Model

Drawing (PDF)

Product Specification PS-43810-001-001 (PDF)

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

Packaging Specification PK-43810-001-000 (PDF)

Symbol Footprint Data SYM-43810-0001-001 (PDF)

RoHS Certificate of Compliance (PDF)

|                      |                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification |                                                                                                                                                                                                                                           |
| CSA                  | LR19980                                                                                                                                                                                                                                   |
| UL                   | E29179                                                                                                                                                                                                                                    |
| General              |                                                                                                                                                                                                                                           |
| Product Family       | PCB Headers                                                                                                                                                                                                                               |
| Series               | 43810                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                |
| Overview             | Mini-Fit Family Power Connectors                                                                                                                                                                                                          |
| Product Name         | Mini-Fit BMI                                                                                                                                                                                                                              |
| Taxonomy             | PCB Headers and Receptacles                                                                                                                                                                                                               |
| UPC                  | 800754911993                                                                                                                                                                                                                              |

|                                |                                |
|--------------------------------|--------------------------------|
| Physical                       |                                |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 4                              |
| Circuits (maximum)             | 4                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 30                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 3.455/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 3.12mm                         |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 4.20mm                         |
| Pitch - Termination Interface  | 4.20mm                         |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |



Series image - Reference only

|                                                               |               |
|---------------------------------------------------------------|---------------|
| EU ELV                                                        |               |
| Not Relevant                                                  |               |
| EU RoHS                                                       | China RoHS    |
| Compliant                                                     |               |
| REACH SVHC                                                    |               |
| Not Contained Per - D(2022)4187-DC (10 June 2022)             |               |
| Halogen-Free                                                  |               |
| Status                                                        |               |
| Not Low-Halogen                                               |               |
| For more information, please visit <a href="#">Contact US</a> |               |
| China ROHS                                                    | Green Image   |
| ELV                                                           | Not Relevant  |
| RoHS Phthalates                                               | Not Contained |

Search Parts in this Series

43810 Series

Mates With

42385 , 42474 , 44475 , 44516 , 5557 Dual Row

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Shrouded                                       | Fully                              |
| Stackable                                      | No                                 |
| Surface Mount Compatible (SMC)                 | Yes                                |
| Temperature Range - Operating                  | -40° to +105°C                     |
| Termination Interface: Style                   | Through Hole                       |
| <b>Electrical</b>                              |                                    |
| Current - Maximum per Contact                  | 13.0A                              |
| Voltage - Maximum                              | 600V AC (RMS)/DC                   |
| <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                     | 260                                |
| <b>Material Info</b>                           |                                    |
| <b>Reference - Drawing Numbers</b>             |                                    |
| Packaging Specification                        | PK-43810-001-000                   |
| Product Specification                          | PS-43810-001-001, PS-45750-001-001 |
| Sales Drawing                                  | SD-43810-011-000                   |
| Symbol/Footprint Data                          | SYM-43810-0001-001                 |

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