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Part Number:

0039299249

Status:

Active

Overview:

Mini-Fit Family Power Connectors

Description:

Mini-Fit Jr. Vertical Header, 4.20mm Pitch, Dual Row, 24 Circuits, with Snap-in Plastic Peg PCB Lock, Gold, Natural

Documents:

3D Model

3D Model (PDF)

Drawing (PDF)

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

Application Specification AS-5557-001-001 (PDF)

Packaging Specification PK-5566-001-001 (PDF)

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

Test Summary TS-5566-002-001 (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                                                                                                                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                                                                                                                                                                                                         |
| CSA                            | LR19980                                                                                                                                                                                                                                                                                                 |
| UL                             | E29179                                                                                                                                                                                                                                                                                                  |
| General                        |                                                                                                                                                                                                                                                                                                         |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                                                                             |
| Series                         | 5566                                                                                                                                                                                                                                                                                                    |
| Application                    | Power, Wire-to-Board                                                                                                                                                                                                                                                                                    |
| Comments                       | The 5566 header should be used with standard Mini-Fit female terminals. If increased amperage of up to 13A per circuit is needed, please consider using the Mini-Fit Plus HCS family 45750 terminals with 46015 headers; See Molex Product specification PS-5666-001 for current de-rating information. |
| Component Type                 | PCB Header                                                                                                                                                                                                                                                                                              |
| Overview                       | Mini-Fit Family Power Connectors                                                                                                                                                                                                                                                                        |
| Product Name                   | Mini-Fit Jr.                                                                                                                                                                                                                                                                                            |
| Taxonomy                       | PCB Headers and Receptacles                                                                                                                                                                                                                                                                             |
| UPC                            | 800754932264                                                                                                                                                                                                                                                                                            |
| Physical                       |                                                                                                                                                                                                                                                                                                         |
| Breakaway                      | No                                                                                                                                                                                                                                                                                                      |
| Circuits (Loaded)              | 24                                                                                                                                                                                                                                                                                                      |
| Circuits (maximum)             | 24                                                                                                                                                                                                                                                                                                      |
| Color - Resin                  | Natural                                                                                                                                                                                                                                                                                                 |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                                                                                      |
| First Mate / Last Break        | No                                                                                                                                                                                                                                                                                                      |
| Flammability                   | 94V-0                                                                                                                                                                                                                                                                                                   |
| Glow-Wire Capable              | No                                                                                                                                                                                                                                                                                                      |
| Guide to Mating Part           | No                                                                                                                                                                                                                                                                                                      |
| Keying to Mating Part          | None                                                                                                                                                                                                                                                                                                    |
| Lock to Mating Part            | Yes                                                                                                                                                                                                                                                                                                     |
| Material - Metal               | Brass                                                                                                                                                                                                                                                                                                   |
| Material - Plating Mating      | Gold                                                                                                                                                                                                                                                                                                    |
| Material - Plating Termination | Matte Tin                                                                                                                                                                                                                                                                                               |
| Material - Resin               | Nylon                                                                                                                                                                                                                                                                                                   |
| Net Weight                     | 4.758/g                                                                                                                                                                                                                                                                                                 |
| Number of Rows                 | 2                                                                                                                                                                                                                                                                                                       |
| Orientation                    | Vertical                                                                                                                                                                                                                                                                                                |
| PC Tail Length                 | 3.50mm                                                                                                                                                                                                                                                                                                  |
| PCB Locator                    | Yes                                                                                                                                                                                                                                                                                                     |
| PCB Retention                  | Yes                                                                                                                                                                                                                                                                                                     |
| PCB Thickness - Recommended    | 1.60mm                                                                                                                                                                                                                                                                                                  |
| Packaging Type                 | Tray                                                                                                                                                                                                                                                                                                    |



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                                           |               |
| 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

5566 Series

Mates With

5557 Mini-Fit Jr. Receptacle Housing, Mini-Fit TPA2 Receptacle Housing 172708

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| 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                              |
| Shrouded                                       | Fully                            |
| 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                  | 9.0A                             |
| 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                             | 5566-24A2GS-210                  |
| <b>Reference - Drawing Numbers</b>             |                                  |
| Application Specification                      | AS-5557-001-001                  |
| Packaging Specification                        | PK-5566-001-001                  |
| Product Specification                          | PS-5556-001-001                  |
| Sales Drawing                                  | 55660021-SD-000                  |
| Test Summary                                   | TS-5556-002-001, TS-5566-002-001 |

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