

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0015249247

Status:

Active

Overview:

Mini-Fit Family Power Connectors

Description:

Mini-Fit BMI Header, Dual Row, Right-Angle, with Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, with Select Gold (Au) Plating

|                                                                |                                                                  |
|----------------------------------------------------------------|------------------------------------------------------------------|
| Documents:                                                     |                                                                  |
| <a href="#">3D Model (PDF)</a>                                 | <a href="#">Product Specification PS-5556-002-001 (PDF)</a>      |
| <a href="#">Drawing (PDF)</a>                                  | <a href="#">Application Specification 424040001-AS-000 (PDF)</a> |
| <a href="#">3D Model</a>                                       | <a href="#">Packaging Specification PK-42404-002-001 (PDF)</a>   |
| <a href="#">Product Specification 55560002-PS-CH-000 (PDF)</a> | <a href="#">Test Summary TS-42404-001-001 (PDF)</a>              |
| <a href="#">Product Specification 55560002-PS-ES-000 (PDF)</a> | <a href="#">Test Summary TS-5556-002-001 (PDF)</a>               |
| <a href="#">Product Specification 55560002-PS-SK-000 (PDF)</a> | <a href="#">Symbol Footprint Data SYM-A42404-24XX-001 (PDF)</a>  |
| <a href="#">Product Specification PS-45750-001-001 (PDF)</a>   | <a href="#">RoHS Certificate of Compliance (PDF)</a>             |

|                                |                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| Component Type                 | PCB Header                                                                                                                                                                                                                                |
| Overview                       | <a href="#">Mini-Fit Family Power Connectors</a>                                                                                                                                                                                          |
| Product Name                   | Mini-Fit BMI                                                                                                                                                                                                                              |
| Taxonomy                       | PCB Headers and Receptacles                                                                                                                                                                                                               |
| UPC                            | 822350294997                                                                                                                                                                                                                              |
| 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                     | 9.260/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                                                                                                                                                                                                                                    |



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

42404 Series

Mates With

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

|                                                |                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Plating min - Mating                           | 0.762μm                                                                                             |
| 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                             | 42404-24A5                                                                                          |
| <b>Reference - Drawing Numbers</b>             |                                                                                                     |
| Application Specification                      | 424040001-AS-000                                                                                    |
| Packaging Specification                        | PK-42404-002-001                                                                                    |
| Product Specification                          | 55560002-PS-CH-000, 55560002-PS-ES-000,<br>55560002-PS-SK-000, PS-45750-001-001,<br>PS-5556-002-001 |
| Sales Drawing                                  | SDA-42404-XXXX-001                                                                                  |
| Symbol/Footprint Data                          | SYM-A42404-24XX-001                                                                                 |
| Test Summary                                   | TS-42404-001-001, TS-5556-002-001                                                                   |

This document was generated on 02/06/2023

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**