



**Part Number :** 428193214

**Series Number :** 42819

**Product Category :** PCB Headers and Receptacles

**Product Description :** 10.00mm Pitch Mini-Fit Sr. Header, Single Row, Vertical, 1.57mm PCB Thickness, Silver (Ag) Plating, 3 Circuits

**Status :** Active

Documents & Resources

Drawings

Drawing 428193214\_sd.pdf

3D Models and Design Files

3D Model 428193214\_stp.zip

Specifications

Product Specification PS-42815-001-001.pdf

Test Summary TS-42815-004-001.pdf

Product Environment Compliance

Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44; 33                                                       |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21                                                    |
| REACH SVHC         | Not Contained per D(2024)4144-DC (27 June 2024)                                       |
| EU RoHS            | Compliant per EU 2015/863                                                             |

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration

- IEC-62474
- chemSHERPA (xml)

## EU RoHS Certificate of Compliance

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### Part Details

#### General

|                |                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                         |
| Category       | PCB Headers and Receptacles                                                                                    |
| Series         | 42819                                                                                                          |
| Description    | 10.00mm Pitch Mini-Fit Sr. Header, Single Row, Vertical, 1.57mm PCB Thickness, Silver (Ag) Plating, 3 Circuits |
| Application    | Power, Wire-to-Board                                                                                           |
| Component Type | PCB Header                                                                                                     |
| Product Family | Mini-Fit Sr. Power Connectors                                                                                  |
| Product Name   | Mini-Fit Sr.                                                                                                   |
| UPC            | 889056246125                                                                                                   |

#### Agency

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

#### Electrical

|                               |       |
|-------------------------------|-------|
| Current - Maximum per Contact | 50.0A |
| Voltage - Maximum             | 600V  |

#### Physical

|                                |       |
|--------------------------------|-------|
| Breakaway                      | No    |
| Circuits (Loaded)              | 3     |
| Circuits (maximum)             | 3     |
| Color - Resin                  | Black |
| 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      | Silver                         |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 7.404/g                        |
| Number of Rows                 | 1                              |
| Orientation                    | Vertical                       |
| Packaging Type                 | Tray                           |
| PC Tail Length                 | 3.50mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.57mm                         |
| Pitch - Mating Interface       | 10.00mm                        |
| Pitch - Termination Interface  | 10.00mm                        |
| Plating min - Mating           | 2.540µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Temperature Range - Operating  | -40° to +105°C                 |
| Termination Interface Style    | Through Hole                   |

## Solder Process Data

|                              |          |
|------------------------------|----------|
| Max-Duration                 | 30       |
| Lead-Free Process Capability | SMC&WAVE |
| Max-Cycle                    | 3        |
| Max-Temp                     | 235      |

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## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|-------------|-------------|
|-------------|-------------|

|                                                              |              |
|--------------------------------------------------------------|--------------|
| 10.00mm Pitch Mini-Fit Sr. Single<br>Row Receptacle Housings | <u>42816</u> |
|--------------------------------------------------------------|--------------|