

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **0428205213**  
**Status:** **Active**  
**Overview:** Mini-Fit Sr. Power Connectors  
**Description:** 10.00mm Pitch Mini-Fit Sr. Header, Single Row, Right-Angle, 1.57mm PCB Thickness, 0.76µm Gold (Au) Selective Plating, 5 Circuits

**Documents:**

|                                |  |
|--------------------------------|--|
| <a href="#">Drawing (PDF)</a>  | <a href="#">Product Specification PS-42815-001-001 (PDF)</a>   |
| <a href="#">3D Model (PDF)</a> | <a href="#">Packaging Specification PK-42820-910-001 (PDF)</a> |
| <a href="#">3D Model</a>       | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |

**Agency Certification**

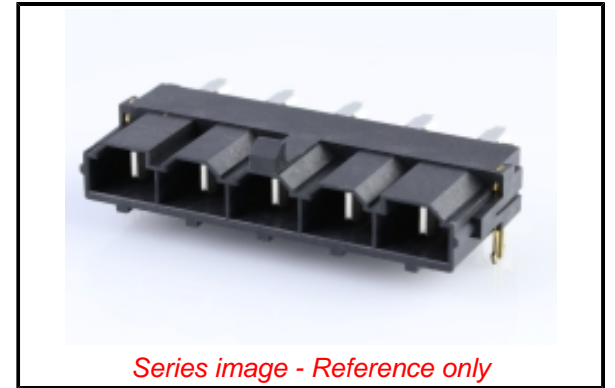
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |   |
|----------------|---|
| Product Family | PCB Headers                                   |
| Series         | <a href="#">42820</a>                         |
| Application    | Power, Wire-to-Board                          |
| Component Type | PCB Header                                    |
| Overview       | <a href="#">Mini-Fit Sr. Power Connectors</a> |
| Product Name   | Mini-Fit Sr.                                  |
| Taxonomy       | PCB Headers and Receptacles                   |
| UPC            | 800756515816                                  |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 5                              |
| Circuits (maximum)             | 5                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 100                            |
| 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 | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 15.169/g                       |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 3.50mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.57mm                         |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface       | 10.00mm                        |
| Pitch - Termination Interface  | 10.00mm                        |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |



**EU ELV**

**Not Relevant**

**EU 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 [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[42820 Series](#)

**Mates With**

[Mini-Fit Sr. Receptacle Housing with TPA 42816](#)

|                                |                |
|--------------------------------|----------------|
| Surface Mount Compatible (SMC) | No             |
| Temperature Range - Operating  | -40° to +105°C |
| Termination Interface: Style   | Through Hole   |

**Electrical**

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

**Solder Process Data**

|  |          |
|--|----------|
| Duration at Max. Process Temperature (seconds) | 030      |
| Lead-free Process Capability                   | SMC&WAVE |
| Max. Cycles at Max. Process Temperature        | 003      |
| Process Temperature max. C                     | 235      |

**Material Info****Reference - Drawing Numbers**

|                         |                    |
|-------------------------|--------------------|
| Packaging Specification | PK-42820-910-001   |
| Product Specification   | PS-42815-001-001   |
| Sales Drawing           | SDA-42820-0002-001 |

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