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**Part Number:** [42820-4242](#)  
**Status:** **Active**  
**Overview:** Mini-Fit Sr.™  
**Description:** 10.00mm Pitch Mini-Fit Sr.™ Header, Single Row, Right Angle, 4 Circuits, 6.35mm PCB Thickness, Tin (Sn) Plating

**Documents:**

[3D Model](#) [Test Summary TS-42815-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-42815-001 \(PDF\)](#)

**Agency Certification**

TUV R72081037  
 UL E29179

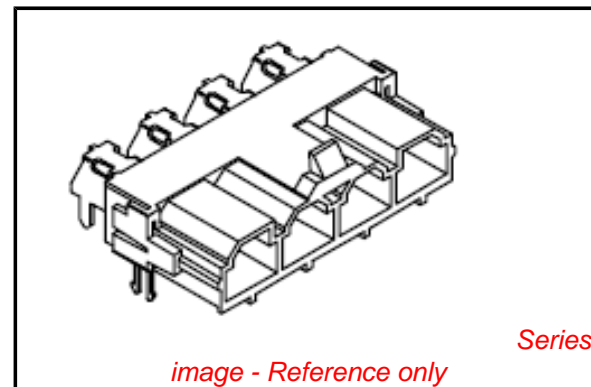
**General**

Product Family PCB Headers  
 Series [42820](#)  
 Application Power, Wire-to-Board  
 Overview Mini-Fit Sr.™  
 Product Name Mini-Fit Sr.™

**Physical**

Breakaway No  
 Circuits (Loaded) 4  
 Circuits (maximum) 4  
 Color - Resin Black  
 Durability (mating cycles max) 30  
 First Mate / Last Break No  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part None  
 Lock to Mating Part Yes  
 Material - Metal Brass  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 1  
 Orientation Right Angle  
 PC Tail Length 8.30mm  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness - Recommended 6.35mm  
 Packaging Type Tube  
 Pitch - Mating Interface 10.00mm  
 Pitch - Termination Interface 10.00mm  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Shrouded Fully  
 Stackable No  
 Surface Mount Compatible (SMC) No  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Through Hole

**Electrical**



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Low-Halogen Status Not Low-Halogen**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[42820Series](#)

**Mates With**

Mini-Fit Sr.™ Receptacle Housing with TPA 42816

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 50A  |
| Voltage - Maximum             | 600V |

### **Solder Process Data**

|  |                        |
|--|------------------------|
| Duration at Max. Process Temperature (seconds) | 3                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 265                    |

### **Material Info**

### **Reference - Drawing Numbers**

|                       |  |
|-----------------------|--|
| Product Specification | PS-42815-001, RPS-42815-001, RPS-42815-011,<br>RPS-42815-012, RPS-42815-013, RPS-42815-014,<br>RPS-42815-015 |
| Sales Drawing         | SDA-42820-0002   |
| Test Summary          | TS-42815-001   |

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