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**Part Number:** [42820-6232](#)  
**Status:** **Active**  
**Overview:** Mini-Fit Sr.™  
**Description:** 10.00mm Pitch Mini-Fit Sr.™ Header, Single Row, Right Angle, 6 Circuits, 3.17mm 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**

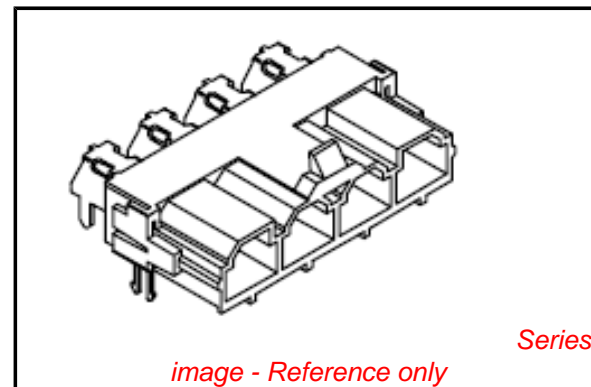
TUV R72081037  
 UL E29179

**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) 6  
 Circuits (maximum) 6  
 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 5.10mm  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness - Recommended 3.20mm  
 Packaging Type Tube  
 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  
 Surface Mount Compatible (SMC) No  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Through Hole



**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

**Electrical**

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,  
RPS-42815-012, RPS-42815-013, RPS-42815-014,  
RPS-42815-015  
Sales Drawing SDA-42820-\*1\*\*, SDA-42820-0002  
Test Summary TS-42815-001

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