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Part Number: [0428205222](#)
Status: **Active**
Overview: Mini-Fit Sr. Power Connectors
Description: 10.00mm Pitch Mini-Fit Sr. Header, Single Row, Right-Angle, 2.36mm PCB Thickness, Tin (Sn) Plating, 5 Circuits, USE NYE LUBE ON MATING SURFACES
Replacement Part Number : <http://www.molex.com/molex/search/partSearch?pQuery=&sType=p&query=0428205223428205223>

Documents:

| | |
|--|--|
| Drawing (PDF) | Application Specification AS-42815-001-001 (PDF) |
| Product Specification PS-42815-001-001 (PDF) | Packaging Specification PK-42820-910-001 (PDF) |
| Product Specification TS-42815-001-001 (PDF) | RoHS Certificate of Compliance (PDF) |

Agency Certification

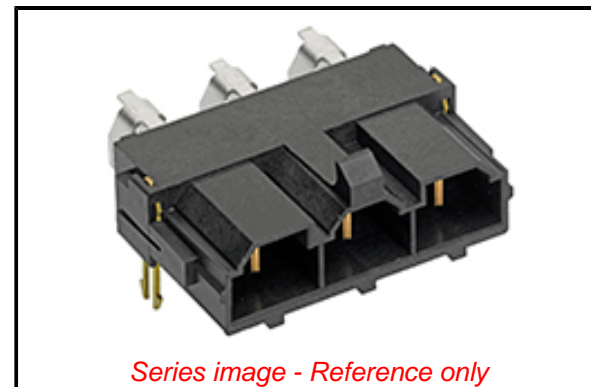
UL E29179

General

| | |
|-------------------------|--|
| Product Family | PCB Headers |
| Series | 42820 |
| Application | Power, Wire-to-Board |
| Comments | WHEN USING OVERALL TIN PLATED TERMINALS: FOR APPLICATIONS INVOLVING VIBRATION AND/OR THERMAL CYCLING, MOLEX STRONGLY RECOMMENDS THE USE OF NYE LUBRICANT (NYOGEL 7600) ON THE MATING SURFACES OF THE TERMINAL. . |
| Overview | Mini-Fit Sr. Power Connectors |
| Product Name | Mini-Fit Sr. |
| Replacement Part Number | 428205223 |
| UPC | 800754383073 |

Physical

| | |
|--------------------------------|--------------------------------|
| Breakaway | No |
| Circuits (Loaded) | 5 |
| Circuits (maximum) | 5 |
| 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 | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 15.562/g |
| Number of Rows | 1 |
| Orientation | Right Angle |
| PC Tail Length | 5.10mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 2.36mm |
| Packaging Type | Tube |
| Pitch - Mating Interface | 10.00mm |
| Pitch - Termination Interface | 10.00mm |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per - D(2021)4569-DC (8 July 2021)

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](#)

| | |
|--------------------------------|----------------|
| 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° 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**

| | |
|---------------------------|------------------------------------|
| Application Specification | AS-42815-001-001 |
| Packaging Specification | PK-42820-910-001 |
| Product Specification | PS-42815-001-001, TS-42815-001-001 |
| Sales Drawing | SDA-42820-0002-001 |

This document was generated on 09/13/2021

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