



Part Number : [428203213](#)

Product Description : 10.00mm Pitch Mini-Fit Sr. Header, Single Row, Right-Angle, 1.57mm PCB Thickness, 0.76µm Gold (Au) Selective Plating, 3 Circuits

Series Number : 42820

Status : Active

Product Category : PCB Headers and Receptacles

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## Documents & Resources

### Drawings

[Drawing 428203213\\_sd.pdf](#)

[Packaging Design Drawing PK-42820-910-001.pdf](#)

### 3D Models and Design Files

[3D Model 428203213\\_stp.zip](#)


### Specifications

[Product Specification PS-42815-001-001.pdf](#)

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## Product Environment Compliance

### Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 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	42820
Description	10.00mm Pitch Mini-Fit Sr. Header, Single Row, Right-Angle, 1.57mm PCB Thickness, 0.76µm Gold (Au) Selective 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	800756513935

### Agency

CSA	LR19980
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)	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	9.540/g
Number of Rows	1
Orientation	Right Angle
Packaging Type	Tube
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	0.762µm
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
Mini-Fit Sr.-to-Mini-Fit Sr. Off-the-Shelf (OTS) Cable Assembly, 10.00mm Pitch, Single Row, 0.15m Length, 3 Circuits, Black	<u>369240301</u>
Mini-Fit Sr.-to-Mini-Fit Sr. Off-the-Shelf (OTS) Cable Assembly, 10.00mm Pitch, Single Row, 0.30m Length, 3 Circuits, Black	<u>369240303</u>
Mini-Fit Sr.-to-Mini-Fit Sr. Off-the-Shelf (OTS) Cable Assembly, 10.00mm Pitch, Single Row, 1.0m Length, 3 Circuits, Black	<u>369240310</u>
10.00mm Pitch Mini-Fit Sr. Single Row Receptacle Housings	<u>42816</u>