

## FEATURES AND SPECIFICATIONS

## Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-board
- Metal board retention clip
- Surface Mount Compatible

## Reference Information

Product Specification: PS-42815-0001  
 Packaging: Tray  
 UL File No.: E29179  
 CSA File No.: LR19980  
 TUV License No.: R9751144  
 Mates With: 42816 receptacle housing  
 Designed In: Millimeters

## Electrical

Voltage: 600V  
 Current: 48.0A max.\*  
 Contact Resistance: 1.5mΩ max.  
 Dielectric Withstanding Voltage: 2200V  
 Insulation Resistance: 1000 MΩ min.

## Mechanical

Insertion Force to PCB: 19.6N max.  
 Normal Force: 1.96N min.  
 Durability: 30 cycles

## Physical

Housing: Glass-filled, 4/6 nylon, UL 94V-0  
 Contact: Copper Alloy  
 Plating: Tin/Lead over Nickel  
 Operating Temperature: -40 to +105°C  
 PCB Thickness: 1.57, 2.36, 3.18, or 6.35mm  
 (.062, .093, .125, or .250")

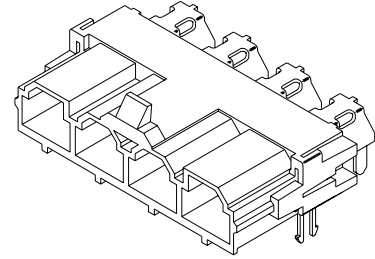
\* Depending on circuit size, wire gauge and PCB. Please refer to product specification.



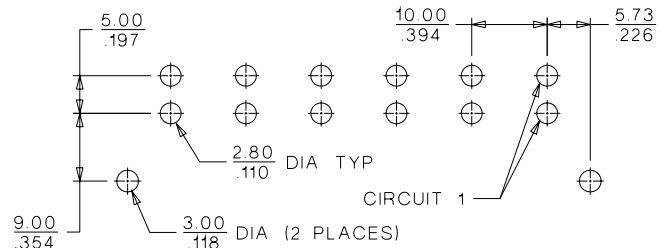
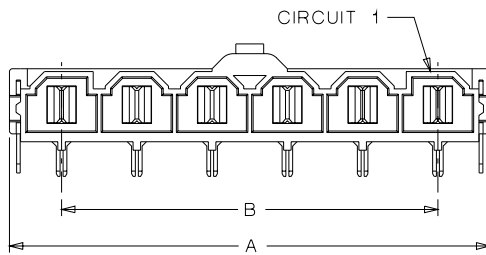
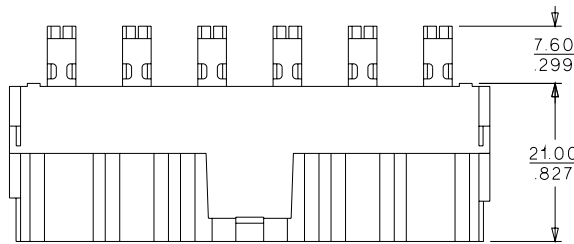
**10.00mm (.393") Pitch**  
**Mini-Fit, Sr.™**  
**Header**

**42820**

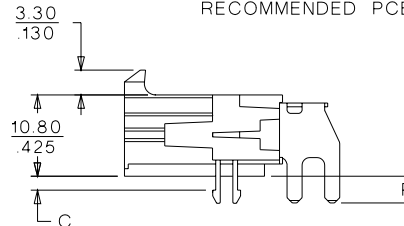
**Right Angle, Single Row**  
**Metal Clip Mount**



## CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE  
 RECOMMENDED PCB THICKNESS: SEE TABLE



## ORDERING INFORMATION AND DIMENSIONS

| Circuits | Order No.  | PCB Thickness | Dimension     |               |             |             |
|----------|------------|---------------|---------------|---------------|-------------|-------------|
|          |            |               | A             | B             | C           | P           |
| 2        | 42820-2212 | 1.57 (.062)   | 23.82 (.937)  | 10.00 (.393)  | 1.80 (.070) | 3.50 (.137) |
|          | 42820-2222 | 2.36 (.093)   |               |               | 2.60 (.102) | 5.10 (.200) |
|          | 42820-2232 | 3.18 (.125)   |               |               | 3.40 (.133) | 5.10 (.200) |
|          | 42820-2242 | 6.35 (.250)   |               |               | 3.40 (.133) | 8.30 (.327) |
| 3        | 42820-3212 | 1.57 (.062)   | 33.82 (1.331) | 20.00 (.787)  | 1.80 (.070) | 3.50 (.137) |
|          | 42820-3222 | 2.36 (.093)   |               |               | 2.60 (.102) | 5.10 (.200) |
|          | 42820-3232 | 3.18 (.125)   |               |               | 3.40 (.133) | 5.10 (.200) |
|          | 42820-3242 | 6.35 (.250)   |               |               | 3.40 (.133) | 8.30 (.327) |
| 4        | 42820-4212 | 1.57 (.062)   | 43.82 (1.725) | 30.00 (1.181) | 1.80 (.070) | 3.50 (.137) |
|          | 42820-4222 | 2.36 (.093)   |               |               | 2.60 (.102) | 5.10 (.200) |
|          | 42820-4232 | 3.18 (.125)   |               |               | 3.40 (.133) | 5.10 (.200) |
|          | 42820-4242 | 6.35 (.250)   |               |               | 3.40 (.133) | 8.30 (.327) |

| Circuits | Order No.  | PCB Thickness | Dimension     |               |             |             |
|----------|------------|---------------|---------------|---------------|-------------|-------------|
|          |            |               | A             | B             | C           | P           |
| 5        | 42820-5212 | 1.57 (.062)   | 53.82 (2.118) | 40.00 (1.574) | 1.80 (.070) | 3.50 (.137) |
|          | 42820-5222 | 2.36 (.093)   |               |               | 2.60 (.102) | 5.10 (.200) |
|          | 42820-5232 | 3.18 (.125)   |               |               | 3.40 (.133) | 5.10 (.200) |
|          | 42820-5242 | 6.35 (.250)   |               |               | 3.40 (.133) | 8.30 (.327) |
| 6        | 42820-6212 | 1.57 (.062)   | 63.82 (2.512) | 50.00 (1.968) | 1.80 (.070) | 3.50 (.137) |
|          | 42820-6222 | 2.36 (.093)   |               |               | 2.60 (.102) | 5.10 (.200) |
|          | 42820-6232 | 3.18 (.125)   |               |               | 3.40 (.133) | 5.10 (.200) |
|          | 42820-6242 | 6.35 (.250)   |               |               | 3.40 (.133) | 8.30 (.327) |