

FEATURES AND SPECIFICATIONS

Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-wire, wire-to-board
- Metal board retention clip

Reference Information

Product Specification: PS-42815-0001

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

TUV License No.: R9751144

Mates With: 42816 housing

Designed In: Millimeters

Electrical

Voltage: 600V

Current: 49.0A max.

Contact Resistance: 1mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 5.0kg max.

Contact Retention to Housing: 9.0kg min.

Wire Pull-Out Force: 12 AWG—31.0kg

Insertion Force to PCB: 2.0kg max.

Mating Force: 1.0kg max.

Unmating Force: 0.5kg min.

Normal Force: 200g min.

Durability: 30 cycles

Physical

Housing: Glass-filled, 4/6 nylon

Contact: Copper Alloy

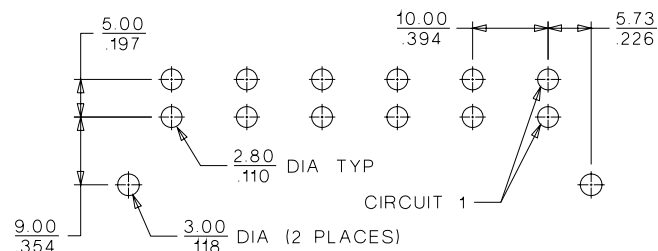
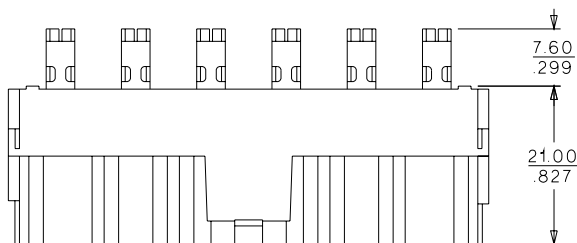
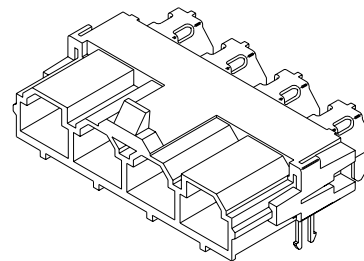
Plating: Tin/Lead over Nickel

Temperature: -40 to +105°C

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

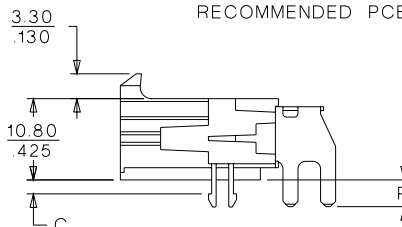
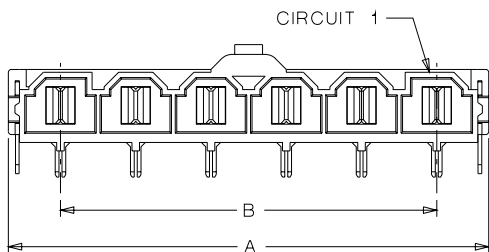
42820

Right Angle, Single Row Metal Clip Mount SMC



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: SEE TABLE



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	P
2	42820-2212	23.82 (.937)	10.00 (.393)	1.80 (.070)	3.50 (.137)
	42820-2222			2.60 (.102)	5.10 (.200)
	42820-2232			3.40 (.133)	5.10 (.200)
3	42820-3212	33.82 (1.331)	20.00 (.787)	1.80 (.070)	3.50 (.137)
	42820-3222			2.60 (.102)	5.10 (.200)
	42820-3232			3.40 (.133)	5.10 (.200)
4	42820-4212	43.82 (1.725)	30.00 (1.181)	1.80 (.070)	3.50 (.137)
	42820-4222			2.60 (.102)	5.10 (.200)
	42820-4232			3.40 (.133)	5.10 (.200)
5	42820-5212	53.82 (2.118)	40.00 (1.574)	1.80 (.070)	3.50 (.137)
	42820-5222			2.60 (.102)	5.10 (.200)
	42820-5232			3.40 (.133)	5.10 (.200)
6	42820-6212	63.82 (2.512)	50.00 (1.968)	1.80 (.070)	3.50 (.137)
	42820-6222			2.60 (.102)	5.10 (.200)
	42820-6232			3.40 (.133)	5.10 (.200)