

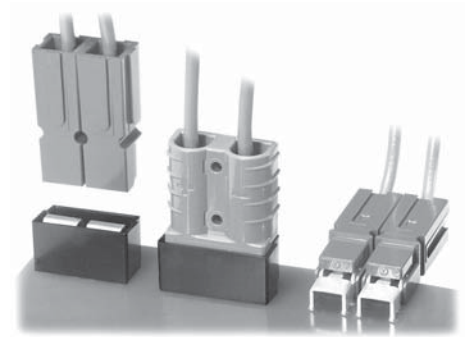
The innovative design of our Powerclaw® family of connectors for the power electronics market makes connecting and disconnecting a snap, enabling safe and convenient "hot swapping" during equipment maintenance without the need to power down. Compact and robust, they're rated at 55 amps for single pole and 50 amps for multipole connections.

Our mini horizontal and vertical Powerclaw contacts offer the same high current capacity as our original Powerclaws while providing the design engineer more options when board real estate is at a minimum.

* Contact factory for ratings

FEATURES


- **Quick disconnect**
Avoids the need for unfastening ring type terminals
- **Snap-On interface**
Ensures foolproof assembly and proper connection
- **Vertical mini-powerclaw UL rated**
For current interruption (hot-plug) so that equipment can be hot swapped
- **Anti-static packaging**
Meets electronics industry PCB requirements
- **Vacuum packaging**
Prevents tarnishing of contacts during shelf life



PRODUCT SPECIFICATIONS

Product Information	PP Powerclaw	SB® Powerclaw Powerclaw	Locking Mini-Powerclaw	Vertical & Horizontal
Maximum Current* (per Tin Contact)	55 amps	50 amps	55 amps	55 amps
Maximum Voltage (AC or DC)	600 volts	600 volts	600 volts	600 volts
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate for vertical guide housings
Contact Material	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy
Contact Plating: Tin	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni
Contact Plating: Silver	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni
Mating/Unmating Forces	7 lbf. Average (31 Newtons)	15 lbf. Average (66 Newtons)	7 lbf. Average (31 Newtons)	4 lbf. per contact (17 Newtons)
Suggested Board Thickness	.150" max.	.150" max.	.150" max.	.250" max.

* See Temperature Rise Chart

High Power PCB Contacts		High Power PCB Contacts	
Test Condition	Specification Tested to and Met:	Test Condition	Specification Tested to and Met:
Mechanical		Environmental	
Sine Vibration	MIL-STD-1344, Method 2005, Test Condition I.	Temperature Cycling	MIL-STD-1344, Method 1003, Test Condition A.
Mechanical Shock	MIL-STD-1344, Method 2004, Test Condition I.	Humidity	MIL-STD-1344, Method 3001, Type 1.
Mating Force	APP Specification, 7 lbf. average mating force.	Flammability	
Durability	10,000 cycles, APP Specification	PP-, LP-, SB-series	UL94 V-0
Electrical			
Temperature Rise at rated current	UL1977		
Dielectric Voltage	MIL-STD-1344, Method 3001,		
Withstand	Type 1.		
Contact Resistance	MIL-STD-1344, Method 3004, Type 1		

HEADQUARTERS: Anderson Power Products®, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA T: 978-422-3600 F: 978-422-3700

EUROPE: Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 428399

ASIA / PACIFIC: IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T: +(852) 2636 0836 F: +(852) 2635 9036

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www.andersonpower.com

ORDERING INFORMATION

Standard Powerclaw

Position	PC	XXX	X	XX
Definition	(Powerclaw)	(Color)	(Plating)	(Housing)
		BLK–Black	T–Tin	PP–Powerpole 75
		RED–Red	S–Silver	LP–Locking Powerpole 75
		BLU–Blue		SB–SB50
		WHT–White		
		GRA–Gray		
		GRN–Green		

Example: Blue 75 locking Powerclaw with tin plating (PC-BLU-T-LP)

Note: For additional colors please contact customer service

Individual Contacts and Guide Housings*

Part No.	Description
PC5930S	Std PC horizontal mount contact – Silver (Ag)
PC5930T	Std PC horizontal mount contact – Tin (Sn)
PC5933T	Mini-PC vertical contact – Tin (Sn)
PC5933S	Mini-PC vertical contact – Silver (Ag)
PC5934T	Mini-PC horizontal contact – Tin (Sn)
PC5934S	Mini-PC horizontal contact – Silver (Ag)
PC-HSG-SB	Guide housing for SB50 (Black)
PC-HSG-PP	Guide housing for PP75 (Black)

* For non-ESD bulk packaged product, add –BK to part number when ordering.

Packaging Quantity

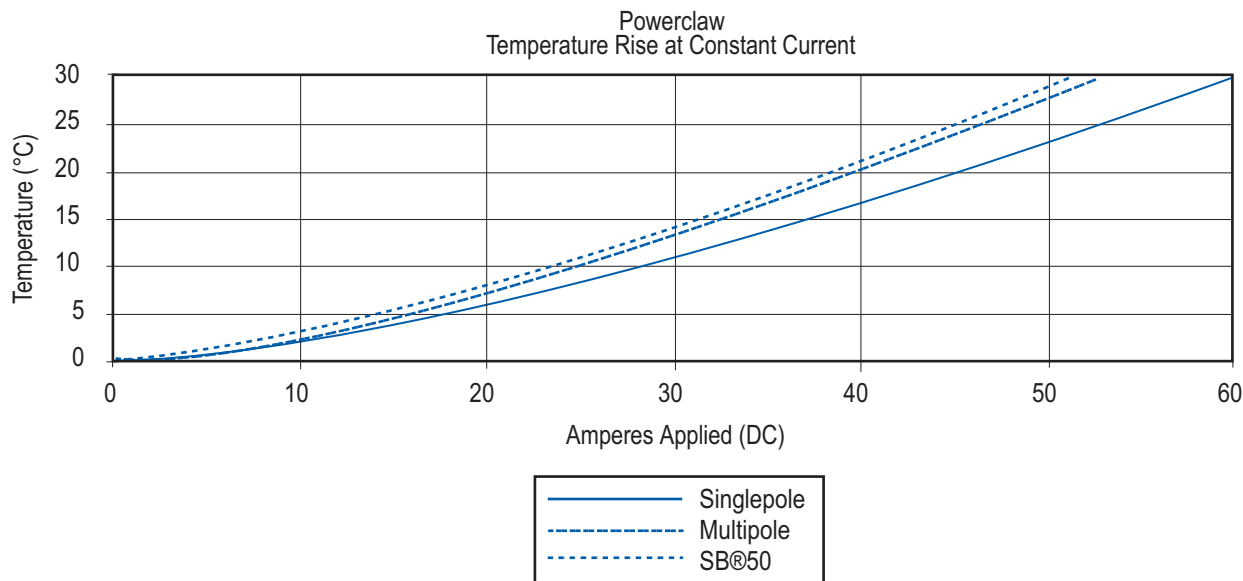
APP's Powerclaw® contacts and connectors are packaged in ESD plastic and foam. This prevents our contacts and connectors from carrying any electrostatic charge that could damage ICs and other sensitive components on a PC board during assembly. The vacuum-sealed package also prevents tarnishing or adverse environmental reactions to occur on the contact. Contacts and housings are also available in bulk quantities, packaged in non-ESD cartons.

Packaging	Quantity
PP Powerclaw	20 per bag
Locking PP Powerclaw	20 per bag
SB Powerclaw	10 per bag
Mini-Powerclaw contacts	20 per bag
Guide Housings	10 per bag or bulk

TEMPERATURE RISE CHART

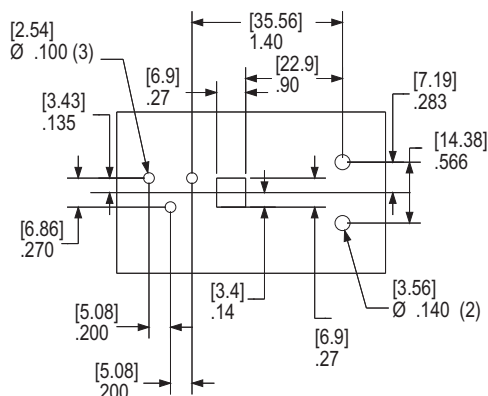
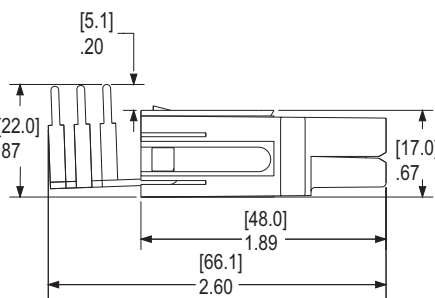
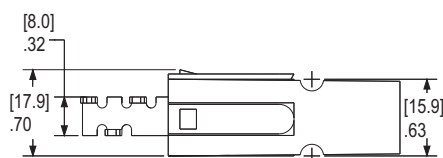
Temperature Rise at Constant Currents

Powerclaw® Tested in Accordance with EIA 364-70, No enclosure, 25+/-5 deg. C. ambient (#8 AWG Foil on Board Side, #6 AWG conductor on wire side, Contact Cat. No. 5900).
Temperature Rise of Contact at exit from Housing Interface (No Air Flow over Test Loop).

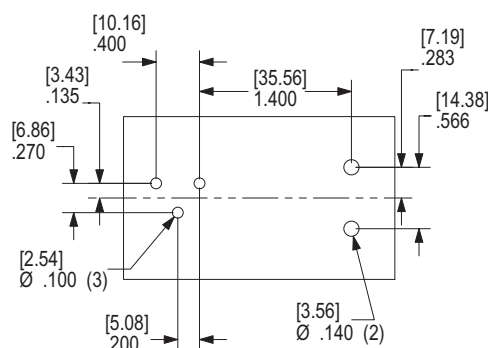
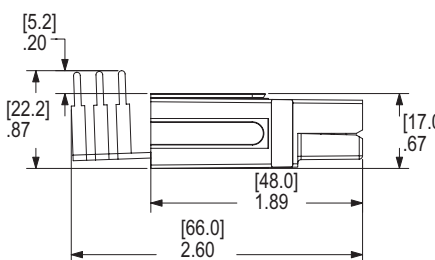
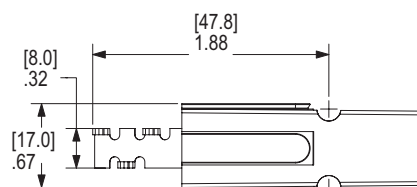


STANDARD POWERCLAW DIMENSIONS

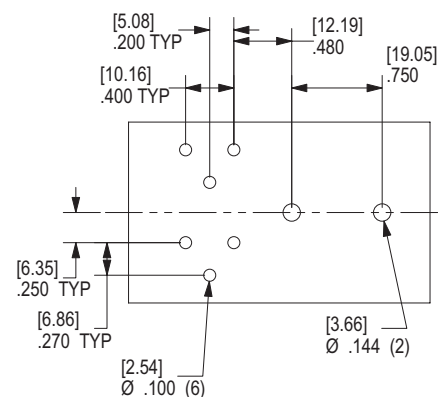
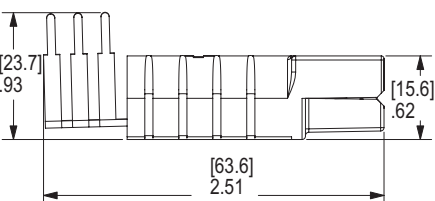
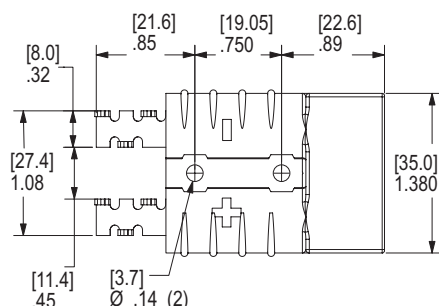
Standard Powerclaw with locking PP75



Standard Powerclaw with PP75

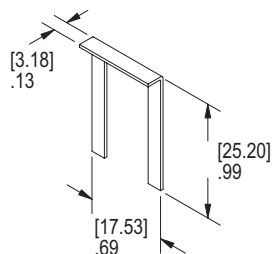


Standard Powerclaw with SB®50



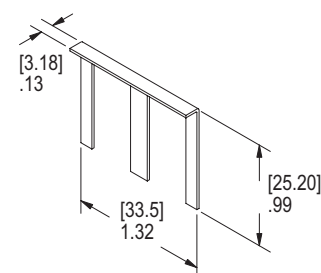
Staple for single powerpole

Part Number: PCSTAPLE-1



Staple for double powerpole

Part Number: PCSTAPLE-2



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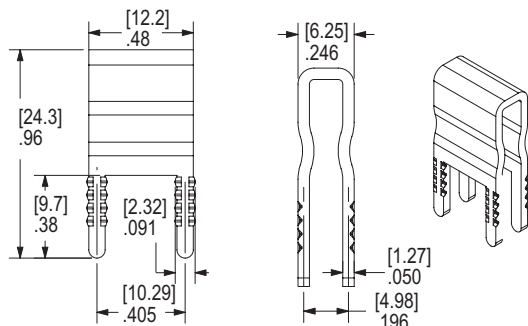
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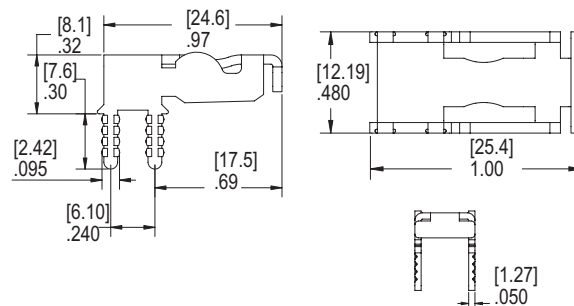
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MINI-POWERCLAW DIMENSIONS

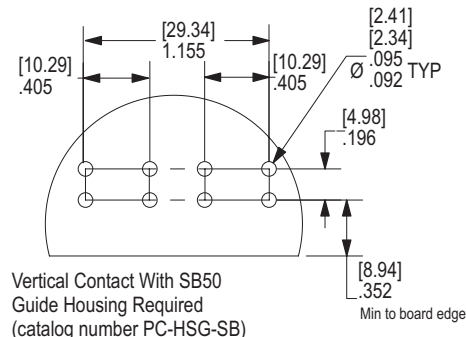
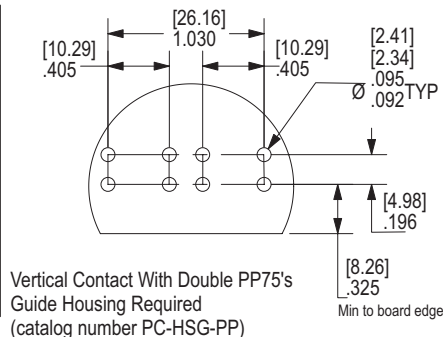
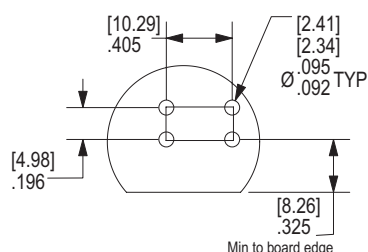
Vertical Powerclaw



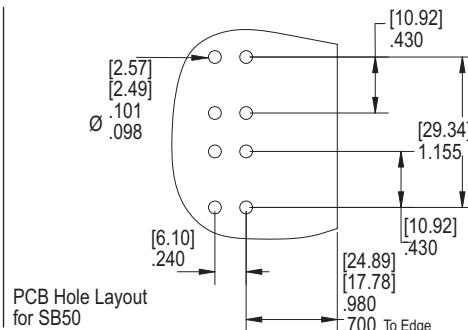
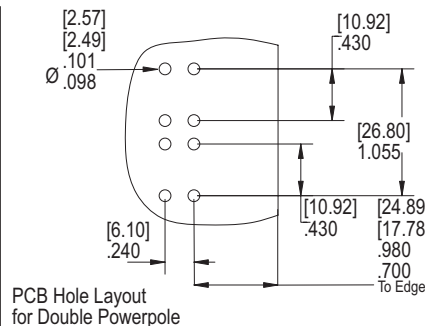
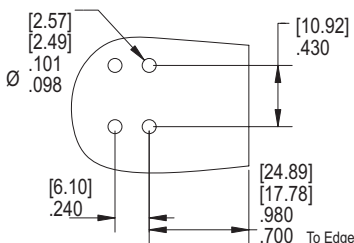
Horizontal Powerclaw



Vertical PCB Placement - Hole Configuration (with or without housing)



Horizontal PCB Placement - Hole Configuration



Mated Horizontal Contacts (board attachment)

