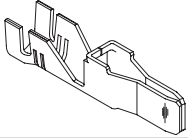
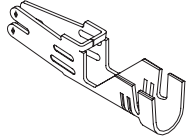
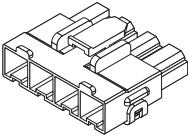
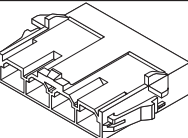
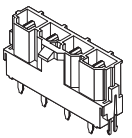
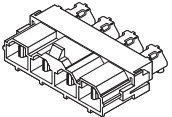
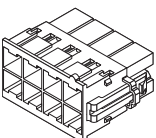
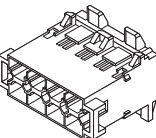
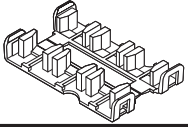
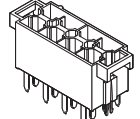


10.00mm (.393") Pitch Mini-Fit Sr.™

- Wire-to-Wire (free hanging and panel mount)
- Wire-to-Board
- Mandatory Terminal Position Assurance (TPA) Piece

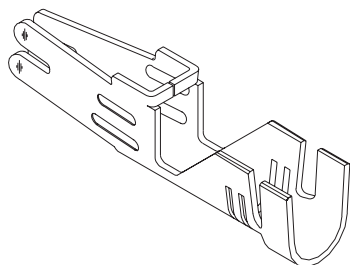
- Voltage: 600V
- Current: 50.0A max.*

	Series	Description	Mates With/ Use With	Material	Circuits/ Wire Gauge	Features and Benefits
Terminals						
	42817	Male Terminal	Mates with 42815 Terminal Used in 42818 and 43938 Housings	Tin or Select Gold-plated Copper Alloy	8 to 16 AWG	<ul style="list-style-type: none"> • Mating Cycles—Tin: 30/Gold: 100 • Four points of electrical contact provide high reliability • Low insertion force design for greater ease in assembly
	42815	Female Terminal	Mates with 42817 Terminal and PCB Header Terminal Used in 42816 and 43914 Housings			
Single Row Housings						
	42816	Receptacle Housing	Mates with 42818, 42819, 42820	Black Polyester, UL 94V-0	2, 3, 4, 5 and 6 Circuits	<ul style="list-style-type: none"> • TPA (Terminal Position Assurance) piece attached to housing to prevent terminal backouts • Positive latch guards against accidental disengagement of housings • Polarized housing helps prevent improper mating • Used in wire-to-wire and wire-to-board applications
	42818	Plug Housing	Mates with 42816			
Single Row PC Board Headers						
	42819	Vertical Header	Mates with 42816	Housings: Black Glass-filled 4/6 Nylon, UL 94V-0 Terminals: Tin or Select Gold-plated Copper Alloy	2, 3, 4, 5 and 6 Circuits	<ul style="list-style-type: none"> • Metal forklocks for secure retention to PC board • Accommodates 1.57, 2.36, 3.18 and 6.35mm (.062, .093, .125 and .250") thick PC Boards
	42820	Right Angle Header				
Dual Row Housings						
	43914	Receptacle Housing	Mates with 43938, 43915 Use with 43980	Black Polyester, UL 94V-0	6, 8, 10, 12 and 14 Circuits	<ul style="list-style-type: none"> • Mandatory TPA (Terminal Position Assurance) piece (43980 series) sold separately • Positive latch guards against accidental disengagement of housings • Polarized housing helps prevent improper mating • Used in wire-to-wire or wire-to-board applications
	43938	Plug Housing	Mates with 43914 Use with 43980			
Dual Row TPA (Terminal Position Assurance Piece)						
	43980	TPA	Must Use With 43914, 43938	White Polyester, UL 94V-0	6, 8, 10, 12 and 14 Circuits	<ul style="list-style-type: none"> • Virtually eliminates terminal back out • White color for easy activation identification
Dual Row Vertical PC Board Header						
	43915	Vertical Header	Mates with 43914	Housing: Black Glass-filled 4/6 Nylon, UL 94V-0 Terminals: Tin or Select Gold-plated Copper Alloy	6, 8, 10, 12 and 14 Circuits	<ul style="list-style-type: none"> • Metal forklocks for secure retention to PC board • Accommodates 1.57, 2.36, 3.18 and 6.35mm (.062, .093, .125 and .250")

*Maximum current is dependent on wire gauge and circuit size. See Mini-Fit, Sr. product specification PS-42815-001.

10.00mm (.393") Pitch Mini-Fit Sr.™ Terminal

42815 Female



Features and Benefits

- High current
- Low engagement force
- Wire-to-wire, wire-to-board
- Four points of electrical contact

Reference Information

Product Specification: PS-42815-0001
 Packaging: Reel
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R9751144
 Use With: 42816 and 43914 receptacle housings
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 50.0A max.*
 Contact Resistance: 1.5 milliohms max.
 Dielectric Withstanding Voltage: 2200V
 Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.
 Mating Force: 29.4N max.
 Unmating Force: 4.9N min.
 Normal Force: 1.96N min.
 Durability: Tin—30 cycles; Gold—100 cycles

Physical

Contact: Copper Alloy
 Plating: Tin or Select Gold
 Wire gauge: 8, 10, 12, 14, 16 AWG

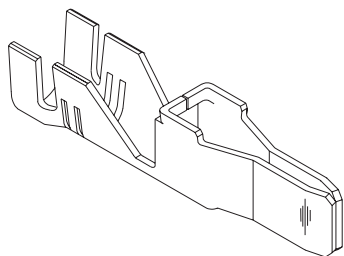
* Depending on circuit size, wire gauge and PCB. Please refer to product specification.

Order No.	Plating*	Wire Size (AWG)	Lead-free
42815-0041	Tin	14-16	Yes
42815-0042	Select Gold		
42815-0011	Tin	10-12	
42815-0012	Select Gold		
42815-0031	Tin	8	
42815-0032	Select Gold		

* Select Gold plated terminals recommended. See product specification for additional information.

10.00mm (.393") Pitch Mini-Fit Sr.™ Terminal

42817 Male



Features and Benefits

- High current
- Four points of electrical contact
- Low engagement force
- Wire-to-wire
- Grounding contacts available

Reference Information

Product Specification: PS-42815-0001
 Packaging: Reel
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R9751144
 Use With: 42818 and 43938 plug housings
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 50.0A max.*
 Contact Resistance: 1.5 milliohms max.
 Dielectric Withstanding Voltage: 2200V
 Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.
 Mating Force: 29.4N max.
 Unmating Force: 4.9N min.
 Normal Force: 1.96N min.
 Durability: Tin—30 cycles; Select Gold—100 cycles

Physical

Contact: Copper Alloy
 Plating: Tin or Select Gold
 Wire gauge: 8, 10, 12, 14 and 16 AWG

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

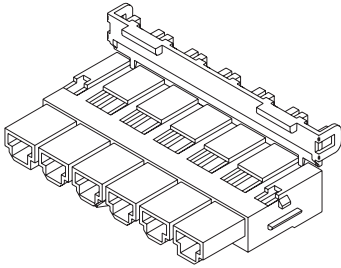
Standard Contacts			
Order No.	Plating*	Wire Gauge	Lead-free
42817-0041	Tin	14-16	Yes
42817-0042	Select Gold		
42817-0011	Tin	10-12	
42817-0012	Select Gold		
42817-0031	Tin	8	
42817-0032	Select Gold		

* Select Gold plated terminals recommended. See product specification for additional information.

Grounding Contacts			
Order No.	Plating*	Wire Gauge	Lead-free
42817-0141	Tin	14-16	Yes
42817-0142	Select Gold		
42817-0111	Tin	10-12	
42817-0112	Select Gold		
42817-0131	Tin	8	
42817-0132	Select Gold		

10.00mm (.393") Pitch Mini-Fit Sr.™ Receptacle Housing

42816
Single Row



Circuits	Order No.
2	42816-0212
3	42816-0312
4	42816-0412
5	42816-0512
6	42816-0612

Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-wire, wire-to-board
- Includes mandatory Terminal Position Assurance (TPA) clip

Reference Information

Product Specification: PS-42815-0001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R9751144
 Mates With: 42818 plug housing, 42819 and 42820 headers
 Use With: 42815 female terminal
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 50.0A max.*
 Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.

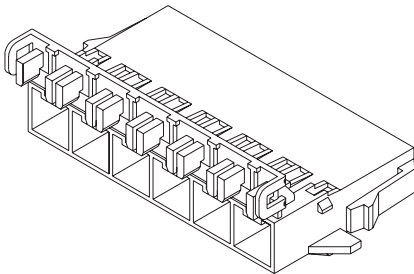
Physical

Housing: Polyester, UL 94V-0

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

10.00mm (.393") Pitch Mini-Fit Sr.™ Plug Housing

42818
Panel Mount
Single Row



Circuits	Order No.
2	42818-0212
3	42818-0312
4	42818-0412
5	42818-0512
6	42818-0612

Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-wire
- Panel Mountable
- Includes mandatory Terminal Position Assurance (TPA) clip

Reference Information

Product Specification: PS-42815-001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R9751144
 Mates With: 42816 receptacle housing
 Use With: 42817 male terminal
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 50.0A max.*
 Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.

Physical

Housing: Polyester, UL 94V-0

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

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

42819

**Vertical, Single Row
Metal Clip Mount**

Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- 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 receptacle housing
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 48.0A max.*
 Contact Resistance: 1.5 milliohms max.
 Dielectric Withstanding Voltage: 2200V
 Insulation Resistance: 1000 Megohms min.

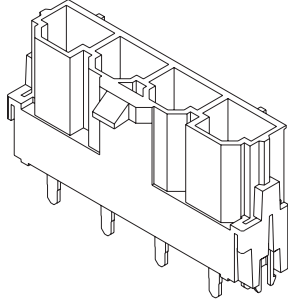
Mechanical

Insertion Force to PCB: 19.6N max.
 Normal Force: 1.96N min.
 Durability: Tin—30 cycles; Gold—100 cycles

Physical

Housing: Glass-filled, 4/6 nylon, UL 94V-0
 Contact: Copper Alloy
 Plating: Tin or Select Gold
 PCB Thickness: 1.57, 2.36, 3.17, or 6.35mm
 (.062, .093, .125, or .250")

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



Power Connectors

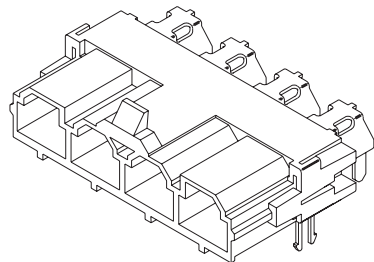
Circuits	Order No.		PCB Thickness	Retention Clip Length	PC Tail Length	Lead-free
	Tin*	Select Gold				
2	42819-2212	42819-2213	1.57 (.062)	1.80 (.070)	3.50 (.137)	Yes
	42819-2222	42819-2223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42819-2232	42819-2233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42819-2242	42819-2243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
3	42819-3212	42819-3213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42819-3222	42819-3223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42819-3232	42819-3233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42819-3242	42819-3243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
4	42819-4212	42819-4213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42819-4222	42819-4223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42819-4232	42819-4233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42819-4242	42819-4243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
5	42819-5212	42819-5213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42819-5222	42819-5223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42819-5232	42819-5233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42819-5242	42819-5243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
6	42819-6212	42819-6213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42819-6222	42819-6223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42819-6232	42819-6233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42819-6242	42819-6243	6.35 (.250)	6.58 (.259)	8.30 (.327)	

* Select Gold headers recommended. See product specification for additional information.

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

42820

Right Angle, Single Row Metal Clip Mount



Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- 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 receptacle housing
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 48.0A max.*
 Contact Resistance: 1.5 milliohms max.
 Dielectric Withstanding Voltage: 2200V
 Insulation Resistance: 1000 Megohms 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 or Select Gold
 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.

Circuits	Order No.		PCB Thickness	Retention Clip Length	PC Tail Length	Lead-free
	Tin*	Select Gold				
2	42820-2212	42820-2213	1.57 (.062)	1.80 (.070)	3.50 (.137)	Yes
	42820-2222	42820-2223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42820-2232	42820-2233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42820-2242	42820-2243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
3	42820-3212	42820-3213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42820-3222	42820-3223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42820-3232	42820-3233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42820-3242	42820-3243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
4	42820-4212	42820-4213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42820-4222	42820-4223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42820-4232	42820-4233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42820-4242	42820-4243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
5	42820-5212	42820-5213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42820-5222	42820-5223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42820-5232	42820-5233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42820-5242	42820-5243	6.35 (.250)	6.58 (.259)	8.30 (.327)	
6	42820-6212	42820-6213	1.57 (.062)	1.80 (.070)	3.50 (.137)	
	42820-6222	42820-6223	2.36 (.093)	2.60 (.102)	5.10 (.200)	
	42820-6232	42820-6233	3.18 (.125)	3.40 (.133)	5.10 (.200)	
	42820-6242	42820-6243	6.35 (.250)	6.58 (.259)	8.30 (.327)	

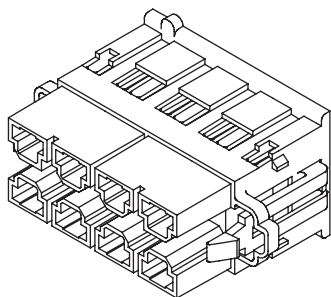
* Select Gold headers recommended. See product specification for additional information.



Power Connectors

10.00mm (.393") Pitch Mini-Fit Sr.™ Receptacle and TPA Clip

43914/43980
Dual Row



Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-wire, wire-to-board (vertical only)
- Mandatory 43980 Series Terminal Position Assurance (TPA) clip, order separately

Reference Information

Product Specification: PS-42815-001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No: R9751144
 Mates With: 43938 plug housing and 43915 header
 Use With: 42815 female terminal and 43980 Terminal
 Position Assurance (TPA) clip
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 43.0A max*
 Insulation Resistance: 1000 Megohms min.
 Dielectric withstanding voltage: 2200V

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.

Physical

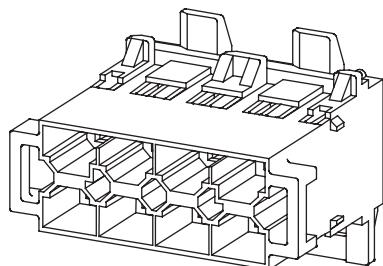
Housing: Polyester, UL 94V-0

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

Dual Row Receptacles		TPA Clip	
Circuits	Order No.	Circuits	Order No.
6	43914-1101	6	43980-1001
8	43914-1102	8	43980-1002
10	43914-1103	10	43980-1003
12	43914-1104	12	43980-1004
14	43914-1105	14	43980-1005

10.00mm (.393") Pitch Mini-Fit Sr.™ Plug and TPA Clip

43938/43980
Dual Row
Panel Mount



Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Wire-to-wire
- Mandatory 43980 Series Terminal Position Assurance (TPA) clip, order separately

Reference Information

Product Specification: PS-42815-001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No: R9751144
 Mates With: 43914 Receptacle housing
 Use With: 42817 male terminal and 43980 Terminal
 Position Assurance (TPA) clip
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: 43.0A max*
 Insulation Resistance: 1000 Megohms min.
 Dielectric withstanding voltage: 2200V

Mechanical

Contact Insertion Force: 29.4N max.
 Contact Retention to Housing: 98.1N min.

Physical

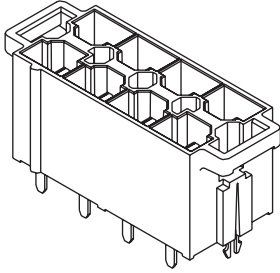
Housing: Polyester, UL 94V-0

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

Dual Row Plug		TPA Clip	
Circuits	Order No.	Circuits	Order No.
6	43938-2101	6	43980-1001
8	43938-2102	8	43980-1002
10	43938-2103	10	43980-1003
12	43938-2104	12	43980-1004
14	43938-2105	14	43980-1005

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

43915 Vertical, Dual Row Metal Clip Mount



Features and Benefits

- High current
- Fully polarized
- Positive locks
- Low engagement force
- Metal board retention clips
- Wire-to-board

Reference Information

Product Specification: PS-42815-0001
Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
TUV License No: R9751144
Mates With: 43914 receptacle housing
Designed In: Millimeters

Electrical

Voltage: 600V
Current: 37.0A max.*
Contact Resistance: 1.5 milliohms max.
Dielectric Withstanding Voltage: 2200V
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 19.6kg max.
Normal Force: 1.96N min.
Durability: Tin—30 cycles; Gold—100 cycles

Physical

Housing: Glass-filled, 4/6 nylon, UL 94V-0
Contact: Copper Alloy
Plating: Tin or Select Gold
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.

Circuits	Order No.		PCB Thickness	Lead-free
	Tin*	Select Gold		
6	43915-1101	43915-1201	1.57 (.062)	Yes
	43915-1106	43915-1206	2.36 (.093)	
	43915-1111	43915-1211	3.18 (.125)	
	43915-1116	43915-1216	6.35 (.250)	
8	43915-1102	43915-1202	1.57 (.062)	
	43915-1107	43915-1207	2.36 (.093)	
	43915-1112	43915-1212	3.18 (.125)	
	43915-1117	43915-1217	6.35 (.250)	
10	43915-1103	43915-1203	1.57 (.062)	
	43915-1108	43915-1208	2.36 (.093)	
	43915-1113	43915-1213	3.18 (.125)	
	43915-1118	43915-1218	6.35 (.250)	

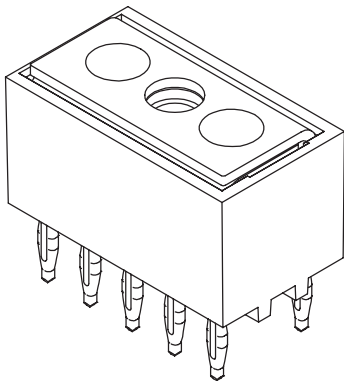
* Select Gold headers recommended. See product specification for additional information.

Circuits	Order No.		PCB Thickness	Lead-free
	Tin*	Select Gold		
12	43915-1104	43915-1204	1.57 (.062)	Yes
	43915-1109	43915-1209	2.36 (.093)	
	43915-1114	43915-1214	3.18 (.125)	
	43915-1119	43915-1219	6.35 (.250)	
14	43915-1105	43915-1205	1.57 (.062)	
	43915-1110	43915-1210	2.36 (.093)	
	43915-1115	43915-1215	3.18 (.125)	
	43915-1120	43915-1220	6.35 (.250)	

www.molex.com/product/power/minisr.html

10.30mm (.405") Stack EXTreme ZPower™ Connector Parallel Board Spacing

76001 Right Angle, Signal Only



Features and Benefits

- Patented internal terminal design allows a rigid, secure interface while helping to isolate press-fit pins from the load of shock and vibration
- Screw contact interface can accept standard wire-crimp, ring-lug terminals for wire-to-board applications (Tin plating for use with ring lug terminal connection)
- Captured internal nut for ease of assembly
- High normal force, high-reliability interface
- One piece ridged Board-to-Board high current interconnect
- Hertzian (high pressure) contact areas create a reliable (gas-tight) mating surface

Reference Information

Packaging: Tray
UL File No.: E29179
Designed In: Millimeters

Electrical

Voltage: 600V max.
Current: 10 Circuit—50.0A max.
6 Circuit—30.0A max.
Contact Resistance (per blade):
Initial—0.15 milliohms
End of Life—0.10 milliohms max. change
Dielectric Withstanding Voltage: 1500VDC
Insulation Resistance: 5000 Megohms min.

Mechanical

Insertion Force to PCB: 9.07N (20lbf) per tail
Recommended Torque: 0.75 N-m (6.6 Inch-lbs)
Durability: 5 cycles

Physical

Housing: LCP, UL 94V-0
Contact: Copper Alloy
Plating:
Contact Area—30μ" Gold min.
or 100μ" select matte Tin min.
Solder Tail Area—100μ" select matte Tin min.
Underplating—50μ" Nickel min.

Order No.	Tails	Current	Plating	Mating PCB Thickness	Press-Fit PCB Thickness	Lead Free
76001-0006	6	30.0A	Gold	0.063" 0.093" 0.125"	0.093"	Yes
76001-0106	6		Tin			
76001-0010	10	50.0A	Gold			
76001-0110	10		Tin			