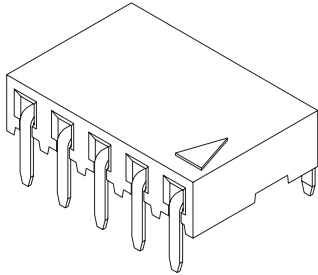


2.54mm (.100") Pitch C-Grid® PC Board Connectors

90148 Single Row Horizontal



Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- Stackable end-to-end
- Meets HE 13/14 specification
- Suitable for single row headers

Reference Information

Product Specification: PS-99020-0001
Packaging: Tube
UL File No.: E29179
CSA File No.: LR19980
Mates With: 0.64 (.025") square pins
Use With: 1.57mm (.062") thick PC boards
Designed In: Inches

Electrical

Voltage: 350V
Current: 3.0A
Contact Resistance: 20 milliohms max.
Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Retention to Housing: 15N min.
Mating Force: 1N Gold max. and 3N Tin max.
Unmating Force: 0.2N Gold min. and 0.2N Tin min.
Normal Force: 1N

Physical

Housing: Black glass-filled polyester, UL 94V-0
Contact: Copper Alloy
Plating: See Table
Operating Temperature: -55 to +125°C
Recommended Mating Pin Length:
5.65mm (.222") min. to 7.00mm (.275") max.

Circuits	Order No.			Lead-free
	Straight Tail			
	Plating A	Plating E	Plating F	
2	90148-1102	90148-1202	90148-1302	Yes
4	90148-1104	90148-1204	90148-1304	
6	90148-1106	90148-1206	90148-1306	
8	90148-1108	90148-1208	90148-1308	
10	90148-1110	90148-1210	90148-1310	

For other available circuit sizes contact Molex

Plating A: 1.00mm (39µ") min. Hot Tin dip

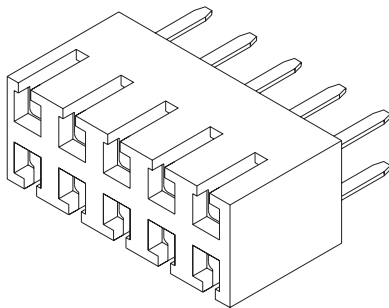
Plating E: 0.38mm (15µ") selective Gold over Nickel and 4mm (160µ") Tin over Nickel

Plating F: 0.76mm (30µ") selective Gold over Nickel and 4mm (160µ") Tin over Nickel

Circuits	Order No.			Lead-free
	Straight Tail			
	Plating A	Plating E	Plating F	
12	90148-1112	90148-1212	90148-1312	Yes
14	90148-1114	90148-1214	90148-1314	
18	90148-1118	90148-1218	90148-1318	
30	90148-1130	90148-1230	90148-1330	
32	90148-1132	90148-1232	90148-1332	

2.54mm (.100") Pitch C-Grid® Receptacle

71850 High Profile, Dual Row High-Temperature, Vertical Through Hole



Features and Benefits

- Sizes 4 to 80 circuits
- Available with or without retention pegs
- High profile: .340" high
- Designed for parallel and perpendicular board stacking
- Stackable end-to-end on .100" grid

Reference Information

Product Specification: PS-71840
Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Mates With: C-Grid breakaway and shrouded headers
Designed In: Inches

Electrical

Voltage: 250V
Current: 2.5A
Contact Resistance: 15 milliohms max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Insertion Force: 182g (0.4 lb)
Insertion Force to PCB: 3.6kg (8 lb) per peg
Durability: Tin—25 cycles; Gold—50 cycles

Physical

Housing: Black high-temperature thermal plastic, UL 94V-0
Contact: Copper Alloy
Plating: See Table
Operating Temperature: -40 to +105°C

Plating Option	Order No.	Lead-free
150 μ " Tin	15-44-68XX	Yes
15 μ " Gold	15-44-58XX	
30 μ " Gold	15-44-51XX	
Replace XX with no. of circuits, 04-80 (even only) Example: 20 circuit = 15-44-5820		