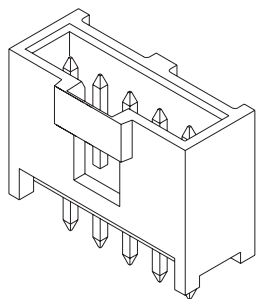


2.54mm (.100") Pitch C-Grid III™ Shrouded Header

90136 Single Row Vertical



Not For Use With Molex SL™ Components

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
2	90136-1102	90136-1202	90136-1302	Yes
3	90136-1103	90136-1203	90136-1303	
4	90136-1104	90136-1204	90136-1304	
5	90136-1105	90136-1205	90136-1305	
6	90136-1106	90136-1206	90136-1306	
7	90136-1107	90136-1207	90136-1307	
8	90136-1108	90136-1208	90136-1308	
9	90136-1109	90136-1209	90136-1309	

For other available circuit sizes contact Molex

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001
Packaging: Tray
Mates With: 90123 and 90156
Designed In: Inches

Electrical

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

Mechanical

Contact Resistance: 20N (2.0kgf) min.
Mating Force: 1N max. Gold and 3N max. Tin
Unmating Force: 0.2N min. Gold and 0.2N min. Tin
Normal Force: 1N

Physical

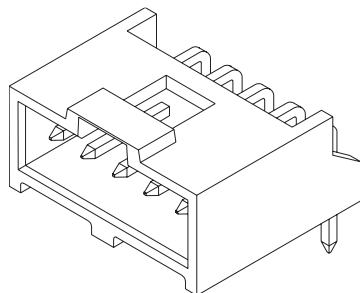
Housing: Black glass-filled polyester, UL 94V-0
Contact: Copper Alloy, 0.64mm (.025") square pins
Plating: See Table
Operating Temperature: -55 to +125°C

Plating A: 4µm (160µ") Tin over Nickel
Plating E: 0.38µm (15µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel
Plating F: 0.76µm (30µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
10	90136-1110	90136-1210	90136-1310	Yes
12	90136-1112	90136-1212	90136-1312	
15	90136-1115	90136-1215	90136-1315	
18	90136-1118	90136-1218	90136-1318	
22	90136-1122	90136-1222	90136-1322	
25	90136-1125	90136-1225	90136-1325	
30	90136-1130	90136-1230	90136-1330	
32	90136-1132	90136-1232	90136-1332	

2.54mm (.100") Pitch C-Grid III™ Shrouded Header

90136 Single Row Right Angle



Not For Use With Molex SL™ Components

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
2	90136-2102	90136-2202	90136-2302	Yes
3	90136-2103	90136-2203	90136-2303	
4	90136-2104	90136-2204	90136-2304	
5	90136-2105	90136-2205	90136-2305	
6	90136-2106	90136-2206	90136-2306	
7	90136-2107	90136-2207	90136-2307	
8	90136-2108	90136-2208	90136-2308	
9	90136-2109	90136-2209	90136-2309	

For other available circuit sizes contact Molex

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention, polarized and friction lock
- 1 through 6 circuits with endwall stabilization features

Reference Information

Product Specification: PS-99020-0001
Packaging: Tray
Mates With: 90123 and 90156
Designed In: Inches

Electrical

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

Mechanical

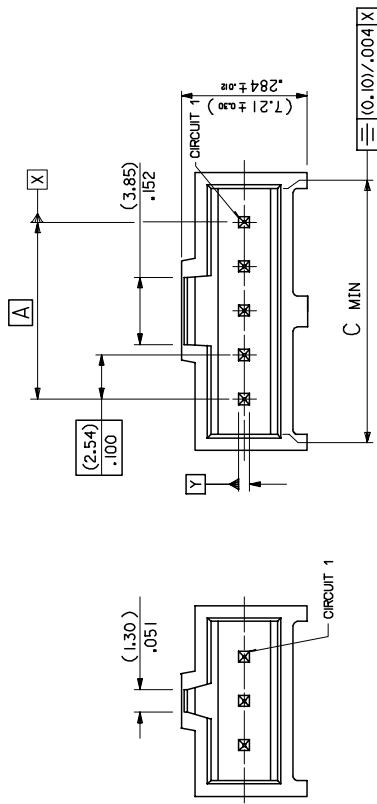
Contact Retention to Housing: 20N (2.0kgf) min.
Mating Force: 1N Gold and 3N max. Tin
Unmating Force: 0.2N min. Gold and 0.2N min. Tin
Normal Force: 1N

Physical

Housing: Black glass-filled polyester, UL 94V-0
Contact: Copper Alloy, 0.64mm (.025") square pins
Plating: See Table
Operating Temperature: -55 to +125°C

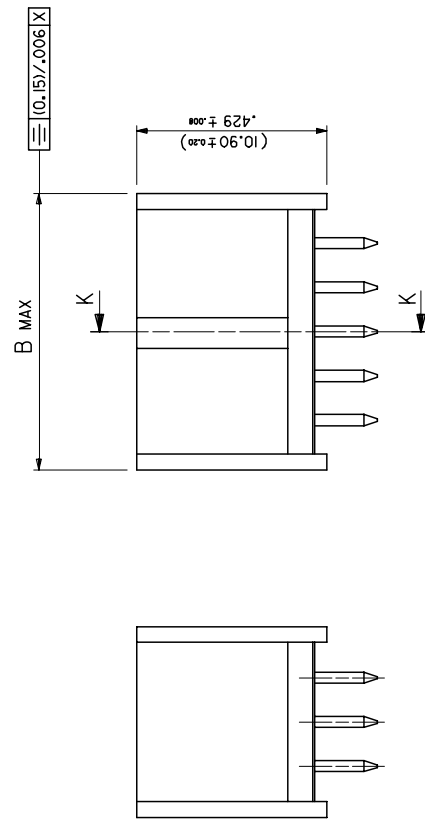
Plating A: 4µm (160µ") Tin over Nickel
Plating E: 0.38µm (15µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel
Plating F: 0.76µm (30µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel

Circuits	Order No.			Lead-free
	Plating A	Plating E	Plating F	
10	90136-2110	90136-2210	90136-2310	Yes
12	90136-2112	90136-2212	90136-2312	
15	90136-2115	90136-2215	90136-2315	
18	90136-2118	90136-2218	90136-2318	
22	90136-2122	90136-2222	90136-2322	
25	90136-2125	90136-2225	90136-2325	
30	90136-2130	90136-2230	90136-2330	
32	90136-2132	90136-2232	90136-2332	



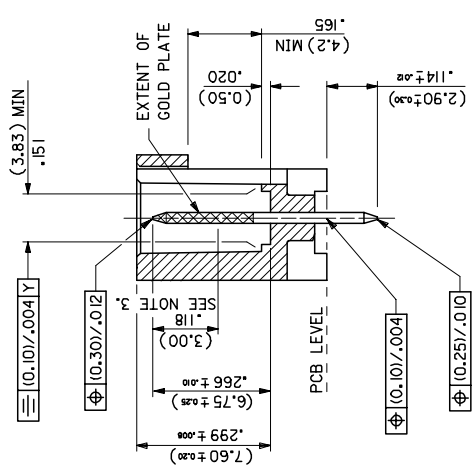
1 TO 3 CIRCUITS

4 TO 32 CIRCUITS

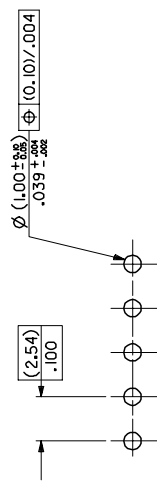


- NOTES
1. MATERIAL:-
- PIN:- (0.635)/.025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK
 2. FOR PLATING VERSIONS SEE SHEET 2.
 3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS
 4. PRODUCT SPEC: PS-98020-0001
 5. RECOMMENDED PCB THICKNESS 16mm

SECTION K-K



RECOMMENDED P.C. BOARD
HOLE PATTERN



No. OF CKTS	DIM A	DIM B	DIM C
1	(5.89) / .232	(8.43) / .332	(4.06) / .160
2	(2.54) / .100	(8.43) / .332	(6.60) / .260
3	(5.08) / .200	(10.97) / .432	(9.14) / .360
4	(7.62) / .300	(13.51) / .532	(11.68) / .460
5	(10.16) / .400	(16.05) / .632	(14.22) / .560
6	(12.70) / .500	(18.59) / .732	(16.76) / .660
7	(15.24) / .600	(21.13) / .832	(19.30) / .760
8	(17.78) / .700	(23.67) / .932	(21.84) / .860
9	(20.32) / .800	(26.21) / 1.032	(24.38) / .960
10	(22.86) / .900	(28.75) / 1.132	(26.92) / 1.060
11	(25.40) / 1.000	(31.29) / 1.232	(29.46) / 1.160
12	(27.94) / 1.100	(33.83) / 1.332	(32.00) / 1.260
13	(30.48) / 1.200	(36.37) / 1.432	(34.54) / 1.360
14	(33.02) / 1.300	(38.91) / 1.532	(37.08) / 1.460
15	(35.56) / 1.400	(41.45) / 1.632	(39.62) / 1.560
16	(38.10) / 1.500	(43.99) / 1.732	(42.16) / 1.660
17	(40.64) / 1.600	(46.53) / 1.832	(44.70) / 1.760
18	(43.18) / 1.700	(49.07) / 1.932	(47.24) / 1.860
19	(45.72) / 1.800	(51.61) / 2.032	(49.78) / 1.960
20	(48.26) / 1.900	(54.15) / 2.132	(52.32) / 2.060
21	(50.80) / 2.000	(56.69) / 2.232	(54.86) / 2.160
22	(53.34) / 2.100	(59.23) / 2.332	(57.40) / 2.260
23	(55.88) / 2.200	(61.77) / 2.432	(59.94) / 2.360
24	(58.42) / 2.300	(64.31) / 2.532	(62.48) / 2.460
25	(60.96) / 2.400	(66.85) / 2.632	(65.02) / 2.560
26	(63.50) / 2.500	(69.39) / 2.732	(67.56) / 2.660
27	(66.04) / 2.600	(71.93) / 2.832	(70.10) / 2.760
28	(68.58) / 2.700	(74.47) / 2.932	(72.64) / 2.860
29	(71.12) / 2.800	(77.01) / 3.032	(75.18) / 2.960
30	(73.66) / 2.900	(79.55) / 3.132	(77.72) / 3.060
31	(76.20) / 3.000	(82.09) / 3.232	(80.26) / 3.160
32	(78.74) / 3.100	(84.63) / 3.332	(82.80) / 3.260

GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± .004 3 PLACES ± .004 2 PLACES ± .010 1 PLACE ± .010 ANGULAR ± 1/2°		DIMENSION STYLE MM/IN SCALE 5:1 TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90136 SHEET NO. 1 OF 180	
QUALITY SYMBOLS 0 0 0		DESIGN UNITS METRIC THIRD ANGLE PROJECTION	
DESCRIPTION APP: WALLACE 2007/09/13 CH: K.D. 2007/09/10 EC NO: E2008-0412 DRW: NDB:RYNES 2007/09/10 ADDED CIRCUIT 1 INDICATOR		MATERIAL NO. SEE CHART THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DOCUMENT NO.	

