

**CHAMP .050 Series I Free Height (FH) Connectors,
Board-to-Board Applications (Continued)**

Right Angle Plugs

Materials and Finish

Housing — Glass filled nylon 6/6, rated 94V-0, black

Contacts — Phosphor bronze, selectively plated with minimum of .000012 [0.00030] gold in mating area and tin-lead in solder tail area

Retention Leg — Brass, tin-lead plated

Performance Specifications — Page 49

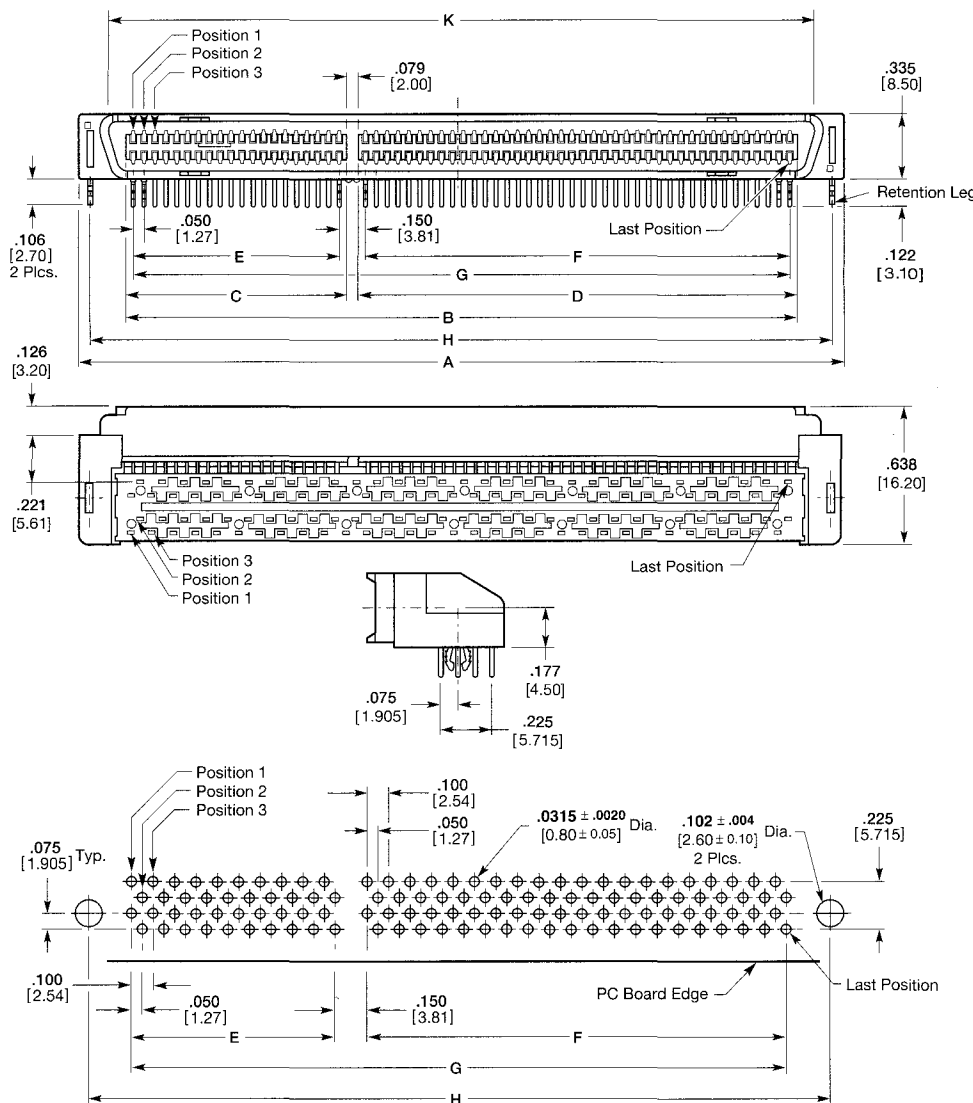
PC Board Accommodation — .031 [0.79] to .093 [2.36] nominal thickness

Mating Receptacles —

Right Angle — Page 54

Vertical — Pages 50-53

Mating Configurations — Page 58



Recommended PC Board Layout
Component Side

| Pos. | Dimensions | | | | | | | | | Part Number |
|------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-------------|
| | A | B | C | D | E | F | G | H | K | |
| 40 | 1.447 36.75 | 1.021 25.93 | — | — | — | — | .950 24.13 | 1.343 34.10 | 1.156 29.37 | 176381-1 |
| 60 | 1.947 49.45 | 1.521 38.63 | — | — | — | — | 1.450 36.83 | 1.843 46.80 | 1.656 42.07 | 176381-2 |
| 80 | 2.447 62.15 | 2.021 51.33 | — | — | — | — | 1.950 49.53 | 2.343 59.50 | 2.156 54.77 | 176381-3 |
| 100 | 2.947 74.85 | 2.521 64.03 | — | — | — | — | 2.450 62.23 | 2.843 72.20 | 2.656 67.47 | 176381-4 |
| 120 | 3.547 90.09 | 3.121 79.27 | 1.021 25.93 | 2.021 51.33 | .950 24.13 | 1.950 49.53 | 3.050 77.47 | 3.443 87.44 | 3.256 82.71 | 176381-5 |
| 140 | 4.047 102.79 | 3.621 91.97 | 1.521 38.63 | 2.021 51.33 | 1.450 36.83 | 1.950 49.53 | 3.550 90.17 | 3.943 100.14 | 3.756 95.41 | 176381-6 |
| 160 | 4.547 115.49 | 4.121 104.67 | 1.521 38.63 | 2.521 64.03 | 1.450 36.83 | 2.450 62.23 | 4.050 102.87 | 4.443 112.84 | 4.256 108.11 | 176381-7 |
| 180 | 5.047 128.19 | 4.621 117.37 | 2.021 51.33 | 2.521 64.03 | 1.950 49.53 | 2.450 62.23 | 4.550 115.57 | 4.943 125.54 | 4.756 120.81 | 176381-8 |

CHAMP .050 Centerline
Connector Systems

