

**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

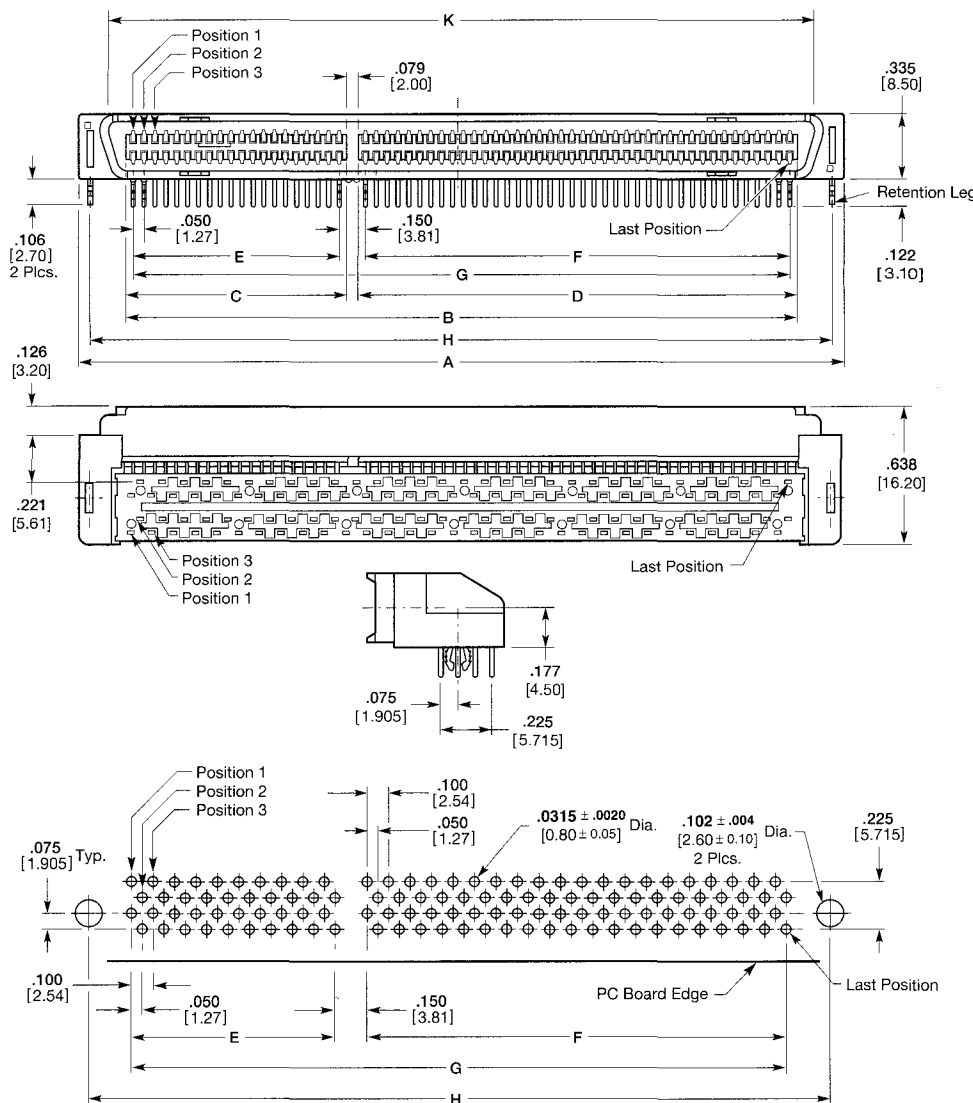
**PC Board Accommodation** — .031 [0.79] to .093 [2.36] nominal thickness

**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

