

**CHAMP .050 Series I Connectors, Printed Circuit Board Connectors (Continued)**

**Right Angle Receptacles**

**Materials and Finish**

**Housing and Tine Plate** — Glass filled nylon, rated 94V-0, black for standard. LCP, rated 94V-0, black for High Temp.

**Contacts** — Phosphor bronze selectively plated with minimum of .000030 [.00076] gold in mating area and tin-lead in solder tail area.

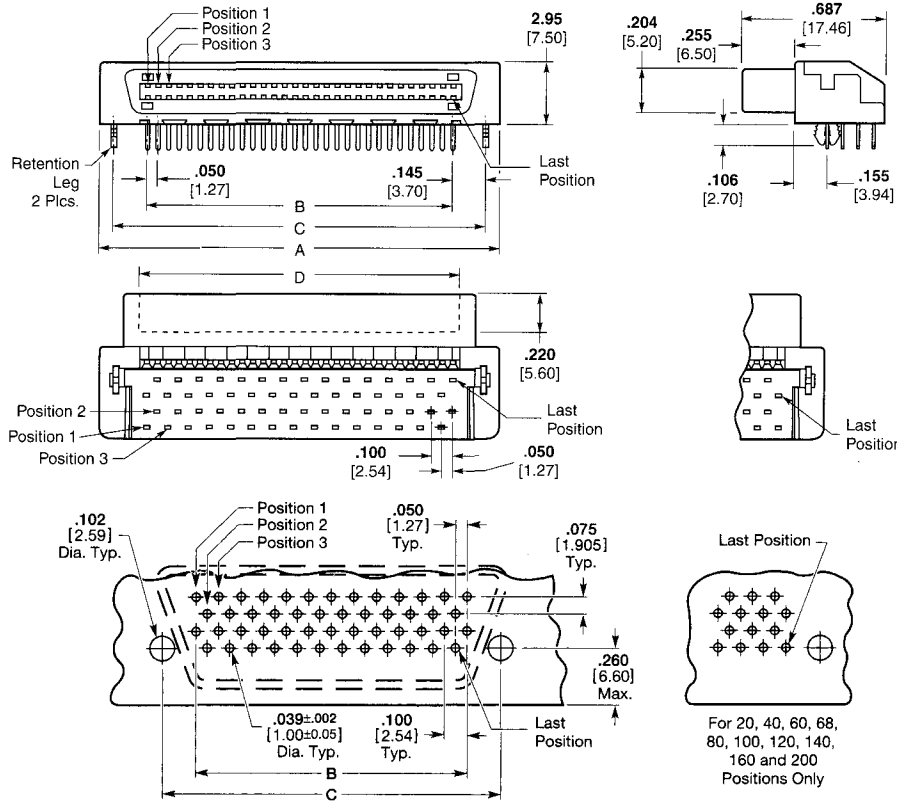
**Retention Leg (Board Lock)** — Brass, tin-lead plated.

**Performance Specifications** — Page 19

**PC Board Accommodation** — .031 [0.79] to .063 [1.60] nominal thickness

**Mating Plug Connectors** — Right Angle — Page 20  
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**Mating Configurations** — Page 28



**Recommended PC Board Layout Component Side**  
For 30, 50 and 130 Positions Only

Pos.	Dimensions				Part Number High Temp.	Part Number Standard Temp.
	A	B	C	D		
20	.891 22.63	.450 11.43	.741 18.83	.524 13.33	N/A	5-175474-1
30	1.141 28.98	.700 17.78	.991 25.18	.774 19.68	N/A	5-175474-3
40	1.391 35.33	.950 24.13	1.241 31.53	1.024 26.03	557101-5	5-175474-5
50	1.641 41.68	1.200 30.48	1.491 37.88	1.274 32.38	557101-9	5-175474-6
60	1.891 48.03	1.450 36.83	1.741 44.23	1.524 38.73	N/A	5-175474-7
68	2.091 53.11	1.650 41.91	1.941 49.31	1.724 43.81	1-557101-7	**175474-8
80	2.391 60.73	1.950 49.53	2.241 56.93	2.024 51.43	2-557101-1	5-175474-9
100	2.891 73.43	2.450 62.23	2.741 69.63	2.524 64.13	*2-557101-5	6-175474-0
120	3.391 86.13	2.950 74.93	3.241 82.33	3.024 76.83	2-557101-9	***4-175474-1
130	3.641 92.48	3.200 81.28	3.491 88.68	3.274 83.18	N/A	***4-175474-2
140	3.891 98.83	3.450 87.63	3.741 95.03	3.524 89.51	4-557101-9	N/A
160	4.391 111.53	3.950 100.33	4.241 107.73	4.024 102.21	3-557101-7	N/A

\*Part Number without board locks is available — Contact Tyco Electronics at the numbers listed below.  
\*\*Plating — .000008 [0.00020] Minimum Gold.  
\*\*\*Plating — .000020 [0.00050] Minimum Gold.

CHAMP .050 Centerline Connector Systems

