

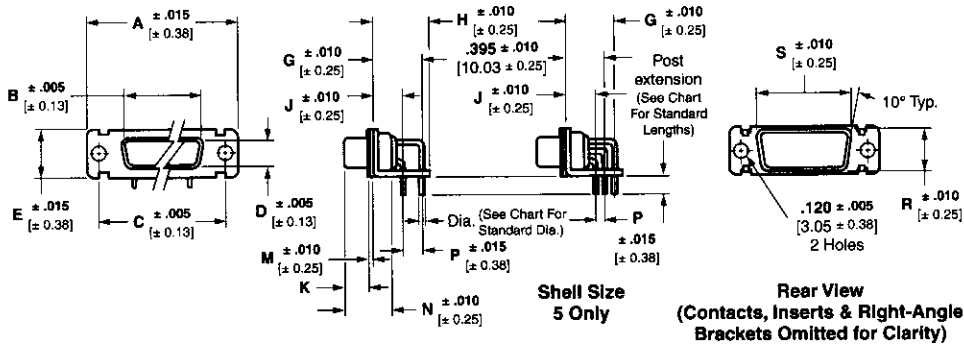
**Right-Angle, PCB Plugs, Series 109, Standard Density Connectors (MIL Qualified)**

**Material and Finish:**

**Shell** — Steel, cadmium plated  
**Insert and Post Spacer** — Approved material per MIL-DTL-24308  
**Contact** — Copper alloy with .000050 [0.00127] min. gold plate over .000050 [0.00127] min. nickel underplate

**Related Product Data:**

**Cavity Identification** — page 5101  
**Mounting, Mating Specifications** — page 5143  
**Accessories** — pages 5148-5150  
**PCB Layouts** — See page 5144 or AMP customer drawing.



MS Shell Size	Connector Style	Dimensions													
		A	B	C	D	E	G	H	J	K	M	N	P	R	S
1	Plug	1.213	.666	.984	.329	.494	.395	.484	.283	.238/.229	.030	.422	.112	.422	.759
		30.81	16.92	24.99	8.36	12.55	10.03	12.29	7.19	6.04/5.81	0.76	10.72	2.84	10.72	19.28
2	Plug	1.541	.994	1.312	.329	.494	.395	.484	.283	.238/.229	.030	.422	.112	.422	1.083
		39.14	25.25	33.33	8.36	12.55	10.03	12.29	7.19	6.04/5.81	0.76	10.72	2.84	10.72	27.51
3	Plug	2.088	1.534	1.852	.329	.494	.395	.484	.283	.236/.224	.039	.426	.112	.422	1.625
		53.04	38.96	47.04	8.36	12.55	10.03	12.29	7.19	5.99/5.68	0.99	10.82	2.84	10.72	29.59
4	Plug	2.729	2.182	2.500	.329	.494	.395	.484	.283	.236/.224	.039	.426	.112	.422	2.272
		69.32	55.42	63.5	8.36	12.55	10.03	12.29	7.19	5.99/5.68	0.99	10.82	2.84	10.72	57.71
5	Plug	2.835	2.079	2.406	.441	.605	.507	.594	.283	.236/.224	.039	.426	.112	.534	2.178
		66.93	52.81	61.11	10.44	15.37	12.88	15.09	7.19	5.99/5.68	0.99	10.82	2.84	13.56	55.32

**Plug Assemblies — .030 [0.76] Post Dia.**

Shell Size	No. Pos.	Post Ext. ±.020 [±0.51]	Military Part No. M24308/	AMP Part No.
1	9	.125 3.18	24-25F	1218440-1
2	15	.125 3.18	24-26F	1218440-2
3	25	.125 3.18	24-27F	1218440-3
4	37	.125 3.18	24-28F	1218440-4
5	50	.125 3.18	24-29F	1218440-5
1	9	.156 3.96	24-31F	1218441-1
2	15	.156 3.96	24-32F	1218441-2
3	25	.156 3.96	24-33F	1218441-3
4	37	.156 3.96	24-34F	1218441-4
5	50	.156 3.96	24-35F	1218441-5
1	9	.188 4.78	24-49F	1218444-1
2	15	.188 4.78	24-50F	1218444-2
3	25	.188 4.78	24-51F	1218444-3
4	37	.188 4.78	24-52F	1218444-4
5	50	.188 4.78	24-53F	1218444-5

**Plug Assemblies — .040 [1.02] Post Dia.**

Shell Size	No. Pos.	Post Ext. ±.020 [±0.51]	Military Part No. M24308/	AMP Part No.
1	9	.125 3.18	24-37F	1218442-1
2	15	.125 3.18	24-38F	1218442-2
3	25	.125 3.18	24-39F	1218442-3
4	37	.125 3.18	24-40F	1218442-4
5	50	.125 3.18	24-41F	1218442-5
1	9	.156 3.96	24-43F	1218443-1
2	15	.156 3.96	24-44F	1218443-2
3	25	.156 3.96	24-45F	1218443-3
4	37	.156 3.96	24-46F	1218443-4
5	50	.156 3.96	24-47F	1218443-5
1	9	.188 4.78	24-55F	1218445-1
2	15	.188 4.78	24-56F	1218445-2
3	25	.188 4.78	24-57F	1218445-3
4	37	.188 4.78	24-58F	1218445-4
5	50	.188 4.78	24-59F	1218445-5

Note: The suffix "F" on M24308 part numbers designates cadmium shell plating.

Pin and Socket Connectors