

**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

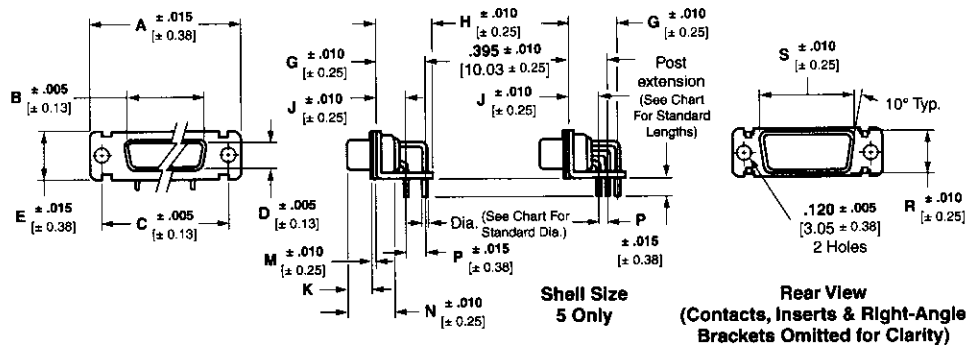
Related Product Data:

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 30.81	.666 16.92	.984 24.99	.329 8.36	.494 12.55	.395 10.03	.484 12.29	.283 7.19	.238/.229 6.04/5.81	.030 0.76	.422 10.72	.112 2.84	.422 10.72	.759 19.28
2	Plug	1.541 39.14	.994 25.25	1.312 33.33	.329 8.36	.494 12.55	.395 10.03	.484 12.29	.283 7.19	.238/.229 6.04/5.81	.030 0.76	.422 10.72	.112 2.84	.422 10.72	1.083 27.51
3	Plug	2.088 53.04	1.534 38.96	1.852 47.04	.329 8.36	.494 12.55	.395 10.03	.484 12.29	.283 7.19	.236/.224 5.99/5.68	.039 0.99	.426 10.82	.112 2.84	.422 10.72	1.625 29.59
4	Plug	2.729 69.32	2.182 55.42	2.500 63.5	.329 8.36	.494 12.55	.395 10.03	.484 12.29	.283 7.19	.236/.224 5.99/5.68	.039 0.99	.426 10.82	.112 2.84	.422 10.72	2.272 57.71
5	Plug	2.835 66.93	2.079 52.81	2.406 61.11	.441 10.44	.605 15.37	.507 12.88	.594 15.09	.283 7.19	.236/.224 5.99/5.68	.039 0.99	.426 10.82	.112 2.84	.534 13.56	2.178 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