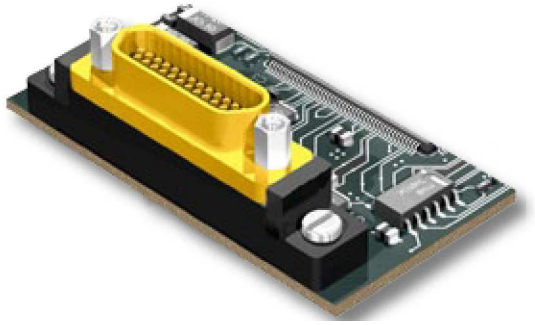
MIL-DTL-83513/22 Thru /27 Micro-D Connectors
Straight PCB Connectors (BS)



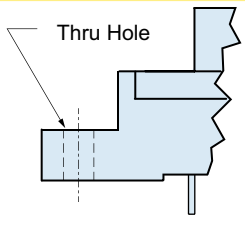
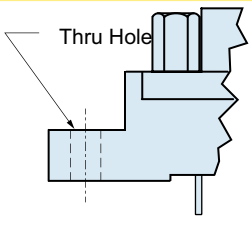
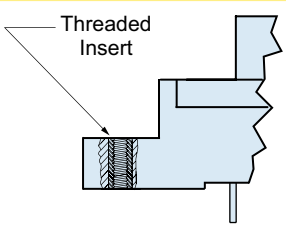
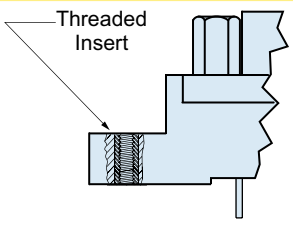
High Performance — These connectors feature goldplated TwistPin contacts for best performance. PC tails are .020 inch diameter. Specify nickel-plated shells or cadmium plated shells for best availability.

Solder-Dipped — Terminals are coated with SN63/Pb37 tin-lead solder for best solderability.

HOW TO ORDER M83513/22 THRU /27 STRAIGHT PCB CONNECGTORS

Spec Number	Slash Number- Insert Arrangement	PC Tail Length	Shell Finish	Hardware Option
M83513/	**Plug (Pin Contacts)** 22–A - 9 Contacts 22–B - 15 Contacts 22–C - 21 Contacts 22–D - 25 Contacts 22–E - 31 Contacts 22–F - 37 Contacts 23–G - 51 Contacts 24–H - 100 Contacts **Receptacle (Socket Contacts)** 25–A - 9 Contacts 25–B - 15 Contacts 25–C - 21 Contacts 25–D - 25 Contacts 25–E - 31 Contacts 25–F - 37 Contacts 26–G - 51 Contacts 27–H - 100 Contacts	01 – .109 Inch (2.77 mm) 02 – .140 Inch (3.56 mm) 03 – .172 Inch (4.37 mm) PC Tail Length ± .015 (0.38)	C – Cadmium N – Electroless Nickel P – Passivated SST	N – No Jackpost P – Jackposts Installed T – Threaded Insert in Board Mount Hole (No Jackposts) W –Threaded Insert in Board Mount Hole and jackposts Installed (See "Hardware Options" below for Illustrations) Shell sizes A (9) through G (51) are #2-56 UNC-2 threads. Shell size H (100) is #4-40 UNC-2 threads.
Sample Part Number				
M83513/	26-G	03	C	W

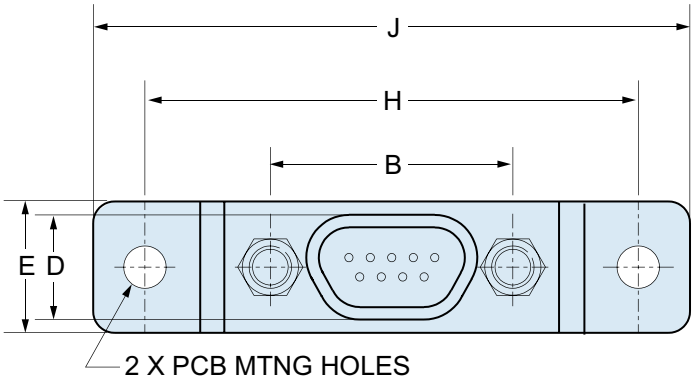
HARDWARE OPTIONS

N	P	T	W
			
No Jackpost	Jackpost	Threaded Insert	Jackpost, Threaded Insert

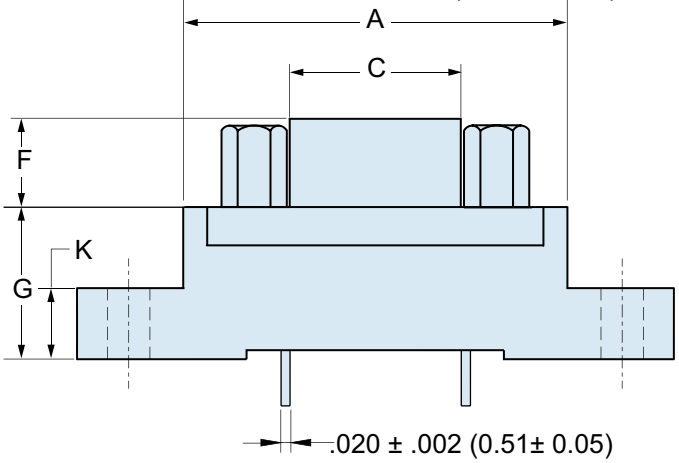
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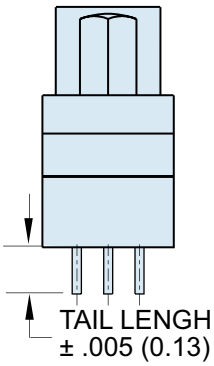
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MIL-DTL-83513/22 Thru /27 Micro-D Connectors
Straight PCB Connectors (BS)



THREAD SIZES
9-51 CONTACTS #2-56 UNC
100 CONTACTS #4-40 UNC





DIMENSIONS

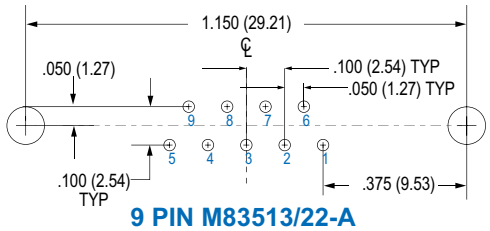
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G		H		J Max.		K	
	In.	mm.	In. ±.003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ±.004	mm. ±0.10	In. ±.010	mm. ±0.25	In. ±.007	mm. ±0.18	In.	mm.	In. ±.010	mm. ±0.25
9P	.790	20.07	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.333	8.46	1.150	29.21	1.390	35.31	.155	3.94
9S	.790	20.07	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.333	8.46	1.150	29.21	1.390	35.31	.155	3.94
15P	.940	23.88	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.333	8.46	1.150	29.21	1.390	35.31	.155	3.94
15S	.940	23.88	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.333	8.46	1.150	29.21	1.390	35.31	.155	3.94
21P	1.180	29.97	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.333	8.46	1.450	36.83	1.690	42.93	.155	3.94
21S	1.180	29.97	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.333	8.46	1.450	36.83	1.690	42.93	.155	3.94
25P	1.275	32.39	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.333	8.46	1.500	38.10	1.740	44.20	.155	3.94
25S	1.275	32.39	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.333	8.46	1.500	38.10	1.740	44.20	.155	3.94
31P	1.575	40.01	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.333	8.46	1.800	45.72	2.040	51.82	.155	3.94
31S	1.575	40.01	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.333	8.46	1.800	45.72	2.040	51.82	.155	3.94
37P	1.875	47.63	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.333	8.46	2.100	53.34	2.340	59.44	.155	3.94
37S	1.875	47.63	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.333	8.46	2.100	53.34	2.340	59.44	.155	3.94
51P	1.775	45.09	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	.183	4.65	.333	8.46	2.000	50.80	2.270	57.64	.155	3.94
51S	1.775	45.09	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	.195	4.95	.333	8.46	2.000	50.80	2.270	57.64	.155	3.94
100P	2.585	65.66	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	.525	13.34	2.800	71.12	3.250	82.55	.293	7.44
100S	2.585	65.66	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	.525	13.34	2.800	71.12	3.250	82.55	.293	7.44

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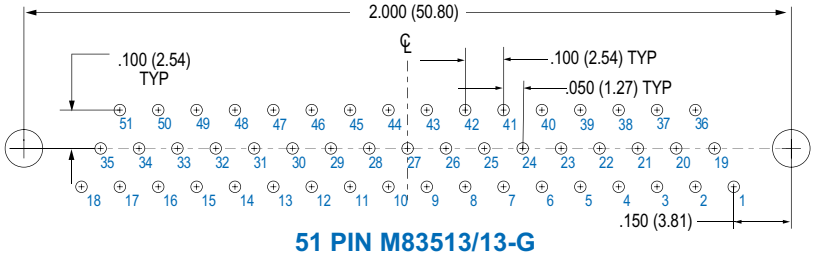
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M83513/22 THRU /24 PCB LAYOUTS – PIN CONNECTORS

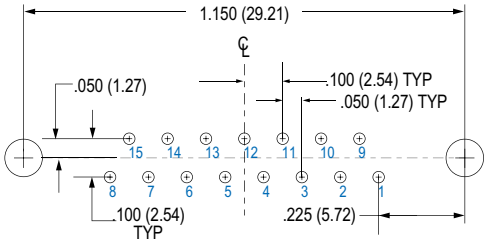
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



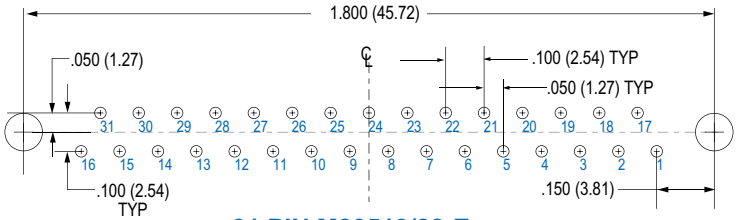
9 PIN M83513/22-A



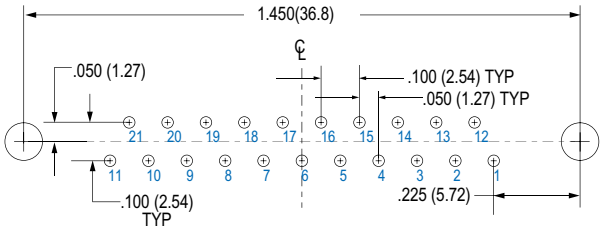
51 PIN M83513/13-G



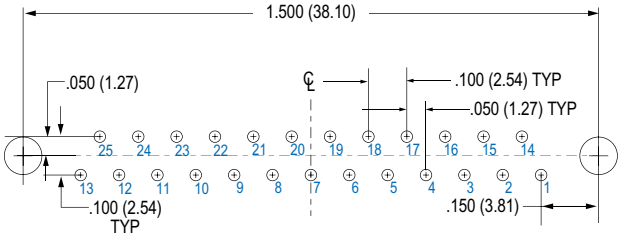
15 PIN M83513/22-B



31 PIN M83513/22-E

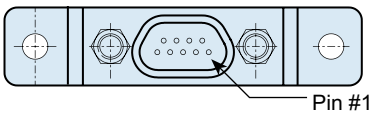


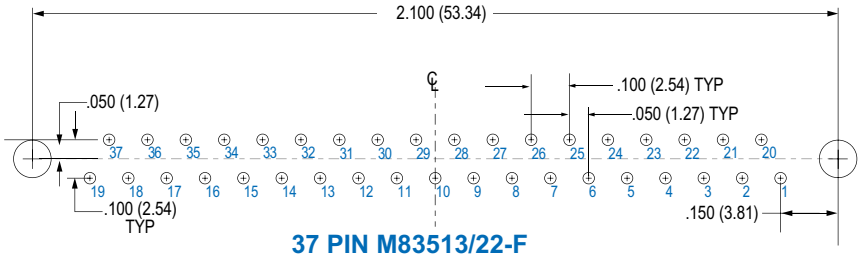
21 PIN M83513/22-C



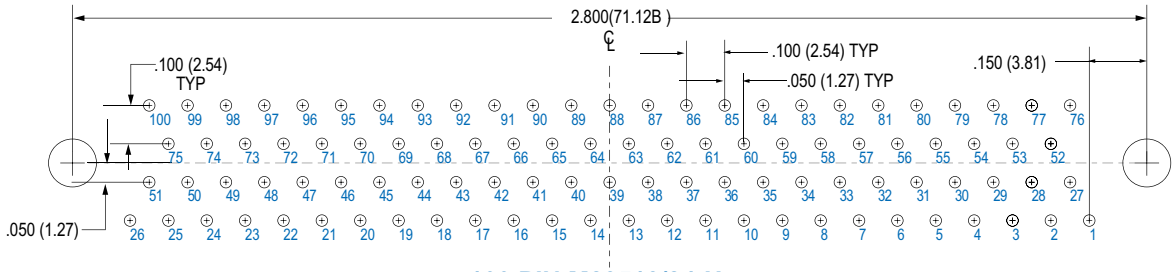
25 PIN M83513/22-D

Connector Orientation





37 PIN M83513/22-F



100 PIN M83513/24-H

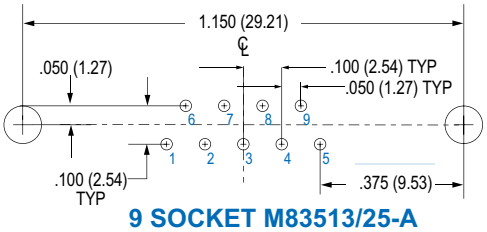
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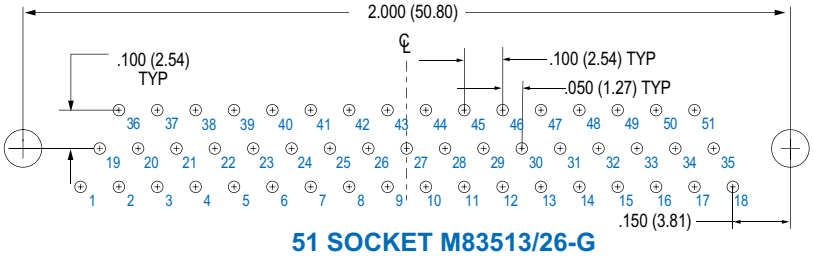
MIL-DTL-83513/22 Thru /27 Micro-D Connectors
Straight PCB Connectors (BS)

M83513/25 THRU /27 PCB LAYOUTS – SOCKET CONNECTORS

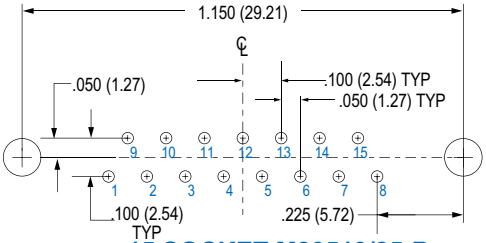
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



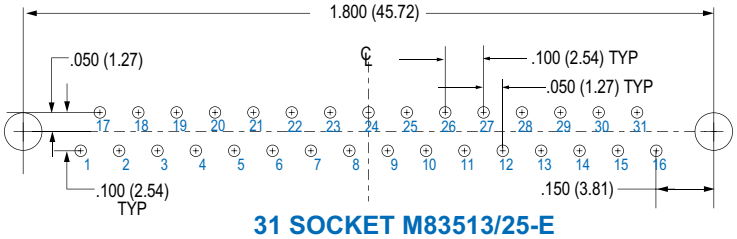
9 SOCKET M83513/25-A



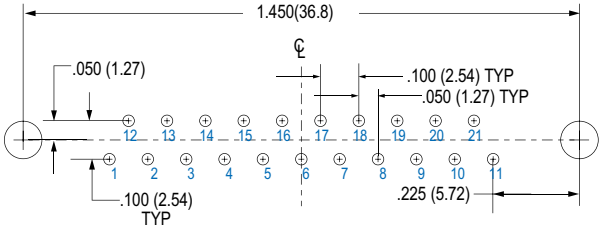
51 SOCKET M83513/26-G



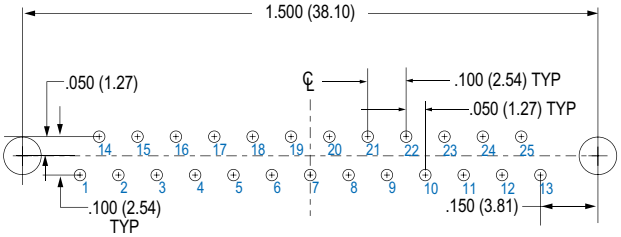
15 SOCKET M83513/25-B



31 SOCKET M83513/25-E

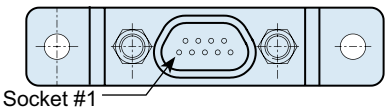


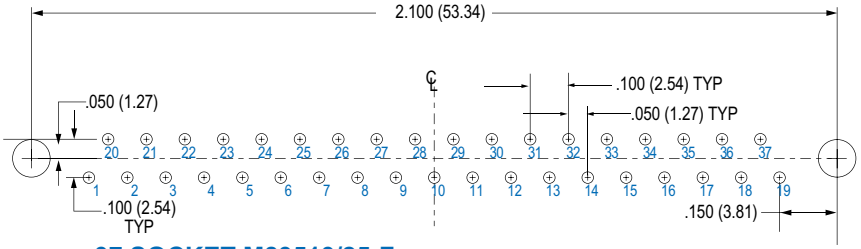
21 SOCKET M83513/25-C



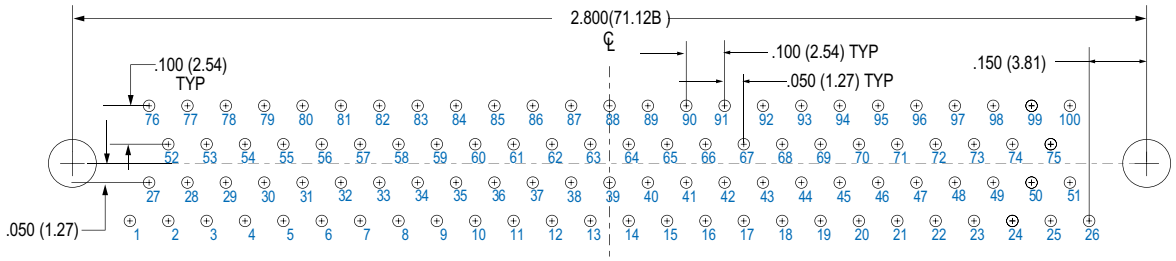
25 SOCKET M83513/25-D

Connector Orientation





37 SOCKET M83513/25-F



100 SOCKET M83513/27-H

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