

MIL-DTL-83513/10 Thru /15 Micro-D Connectors Right Angle PCB Connectors (CBR)



High Performance — These connectors feature gold-plated 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.

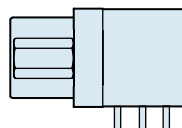
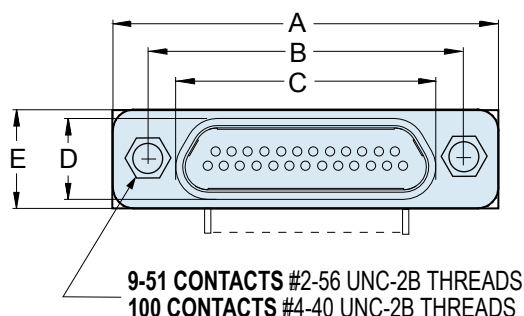
HOW TO ORDER M83513/10 THRU /15 NARROW PROFILE RIGHT ANGLE PCB CONNECGTORS

Spec Number	Slash Number- Shell Size	PC Tail Length	Shell Finish	Hardware Option
M83513/	Plug (Pin Contacts)	01 – .109 Inch (2.77 mm)	C – Cadmium	N – No Jackpost
	10–A - 9 Contacts	02 – .140 Inch (3.56 mm)	N – Electroless Nickel	P – Jackposts Installed
	10–B - 15 Contacts	03 – .172 Inch (4.37 mm)	P – Passivated SST	T – Threaded Insert in Board Mount Hole (No Jackposts)
	10–C - 21 Contacts	PC Tail Length ± .015 (0.38)		W –Threaded Insert in Board Mount Hole and jackposts Installed
	10–D - 25 Contacts			See "Hardware Options" below for Illustrations
	10–E - 31 Contacts			
	10–F - 37 Contacts			
	11–G - 51 Contacts			
	12–H - 100 Contacts			
	Receptacle (Socket Contacts)			
	13–A - 9 Contacts			
	13–B - 15 Contacts			
	13–C - 21 Contacts			
	13–D - 25 Contacts			
	13–E - 31 Contacts			
	13–F - 37 Contacts			
	14–G - 51 Contacts			
	15–H - 100 Contacts			
Sample Part Number				
M83513/	13-B	02	N	P

HARDWARE OPTIONS

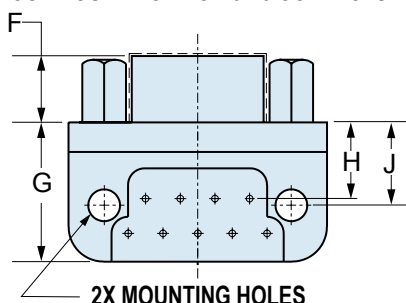
N	P	T	W
THRU HOLE	THRU HOLE	2X THREADED INSERTS	2X THREADED INSERTS
No Jackpost	Jackpost	Threaded Insert	Jackpost, Threaded Insert

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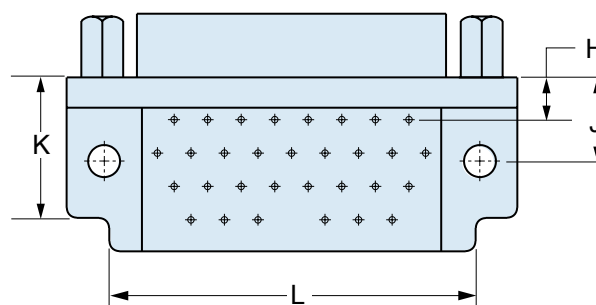
THREAD SIZES
9-51 CONTACTS #2-56 UNC
100 CONTACTS #4-40 UNC

CONFIGURATION FOR 9-25 CONTACTS



PCB MOUNTING HOLES
9-51 CONTACTS .096 DIA. $\pm .003$ (2.44 ± 0.08)
100 CONTACTS .125 DIA. $\pm .003$ (3.18 ± 0.08)

CONFIGURATION FOR 31-100 CONTACTS



DIMENSIONS

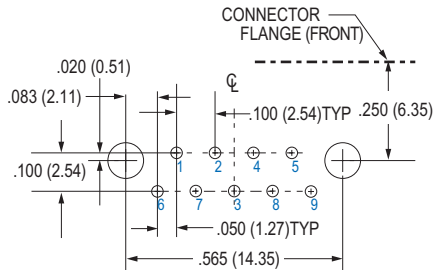
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H		J		K Max.		L Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
9P	.787	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.230	5.84	.250	6.35				
9S	.787	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.230	5.84	.250	6.35				
15P	.937	23.75	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35				
15S	.937	23.75	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35				
21P	1.087	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35				
21S	1.087	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35				
25P	1.187	30.01	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.425	10.80	.130	3.30	.250	6.35				
25S	1.187	30.01	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.425	10.80	.130	3.30	.250	6.35				
31P	1.337	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.085	27.56
31S	1.337	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.085	27.56
37P	1.487	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.185	30.10
37S	1.487	37.72	1.265	32.13	1.101	27.96	.250	6.35	.310	7.87	.195	4.95	.525	13.34	.130	3.30	.250	6.35	.450	11.43	1.185	30.10
51P	1.435	36.45	1.215	30.86	.983	24.97	.224	5.69	.351	8.92	.183	4.65	.660	16.76	.150	3.81	.300	7.62	.450	11.43	1.225	31.12
51S	1.435	36.45	1.215	30.86	1.051	26.70	.293	7.44	.351	8.92	.195	4.95	.660	16.76	.150	3.81	.300	7.62	.450	11.43	1.225	31.12
100P	2.175	55.12	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	1.010	25.65	.200	5.08	.400	10.16	.590	14.99	1.820	46.23
100S	2.175	55.12	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	1.010	25.65	.200	5.08	.400	10.16	.590	14.99	1.820	46.23

MIL-DTL-83513/10 Thru /15 Micro-D Connectors Right Angle PCB Connectors (CBR)

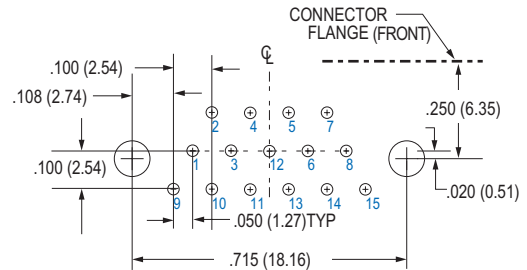


M83513/10 THRU /12 CONNECTOR PCB LAYOUTS – PIN CONNECTORS

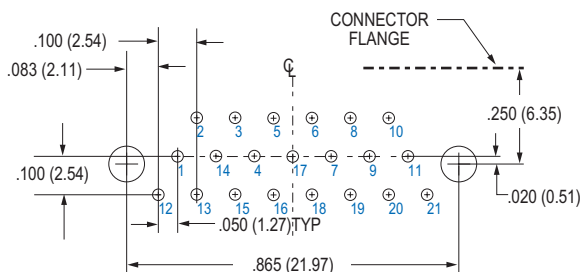
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



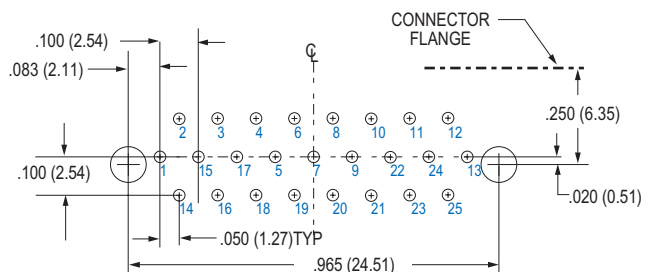
9 PIN M83513/10-A



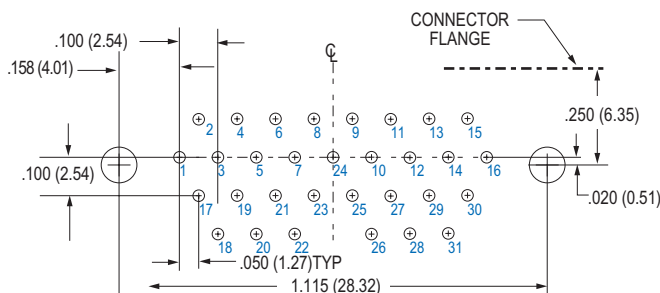
15 PIN M83513/10-B



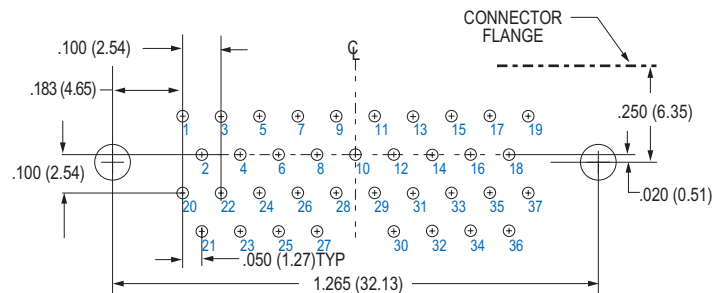
21 PIN M83513/10-C



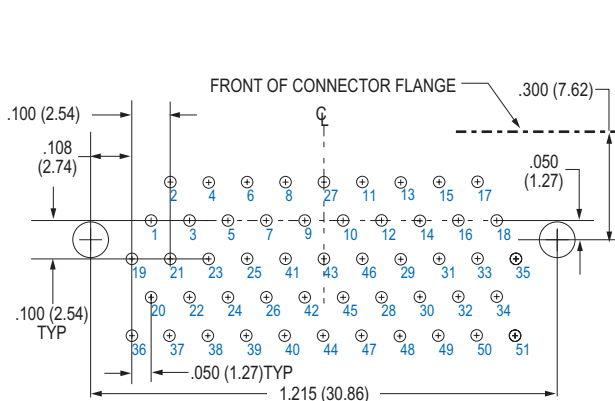
25 PIN M83513/10-D



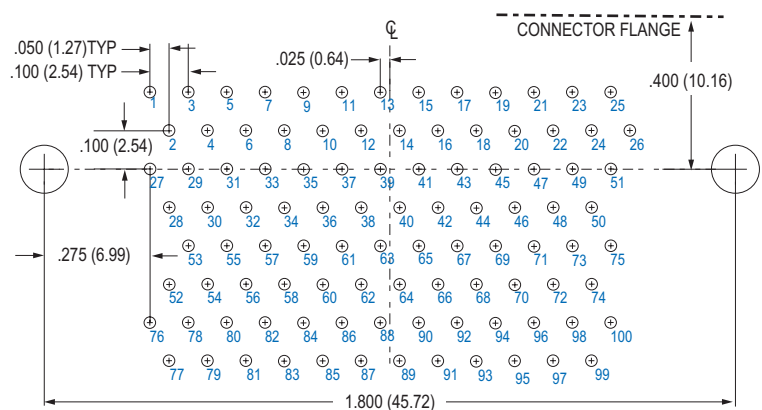
31 PIN M83513/10-E



37 PIN M83513/10-F



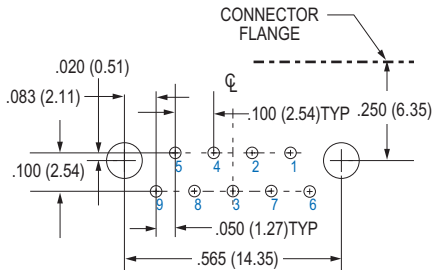
51 PIN M83513/11-G



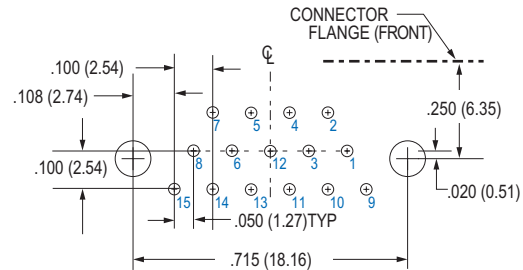
100 PIN M83513/12-H

M83513/13 THRU /15 CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS

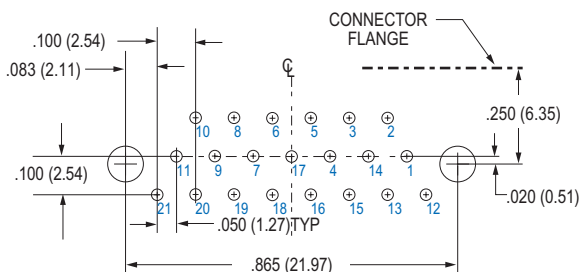
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



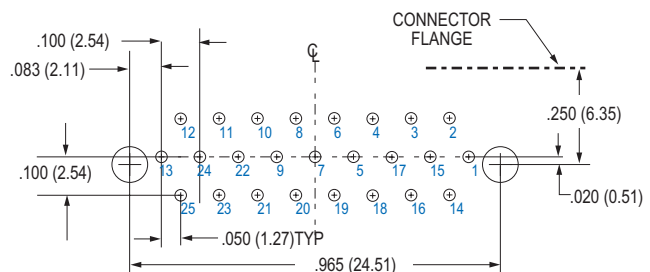
9 SOCKET M83513/13-A



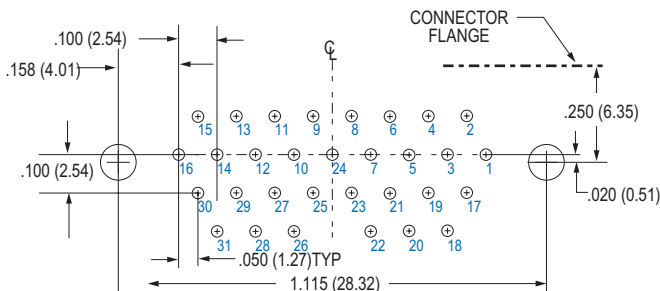
15 SOCKET M83513/13-B



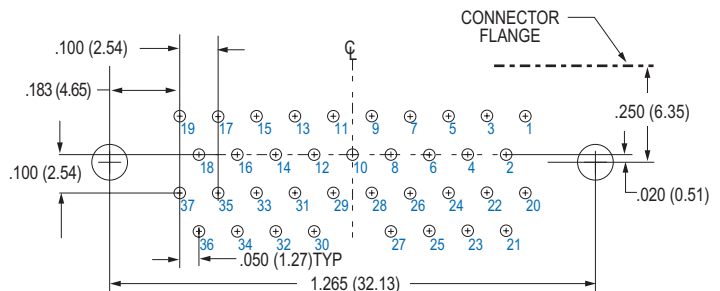
21 SOCKET M83513/13-C



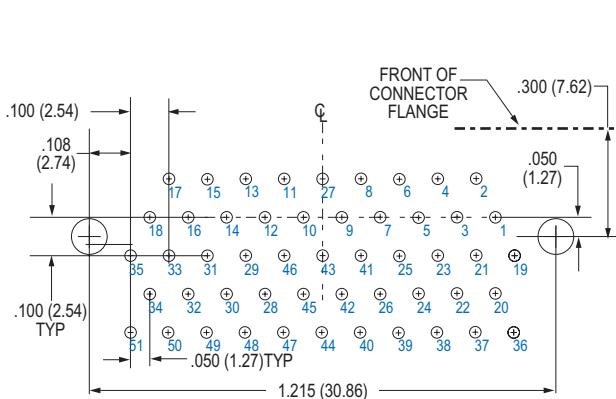
25 SOCKET M83513/13-D



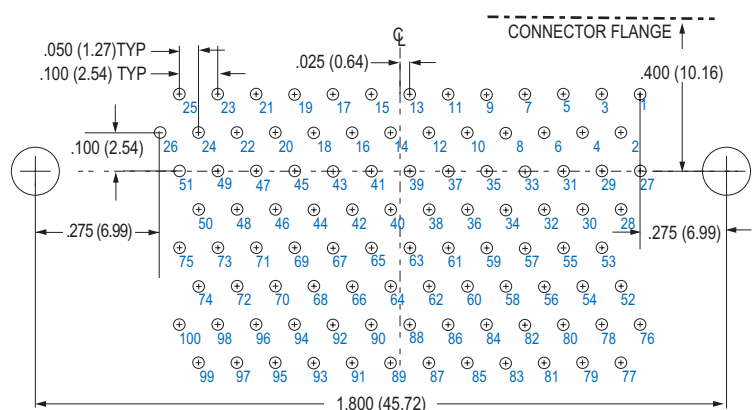
31 SOCKET M83513/13-E



37 SOCKET M83513/13-F



51 SOCKET M83513/14-G



100 SOCKET M83513/15-H