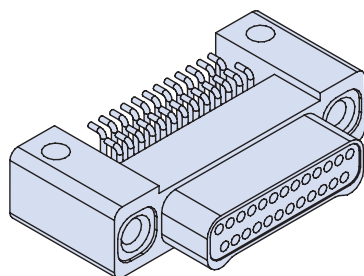




SERIES 89 Dual Row Connectors



Right Angle Surface Mount PCB Connector How to Order



Right Angle Surface Mount Connectors feature gold alloy TwistPin contacts. These nanominiature connectors offer premium performance and reliability for demanding applications.

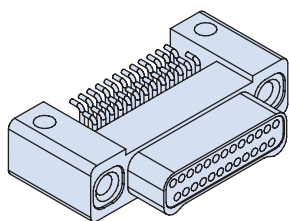
Choose Aluminum, Titanium or Stainless Steel Shells in eleven layouts from 9 to 85 contacts. Complies to the requirements of MIL-DTL-32139.

Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability.

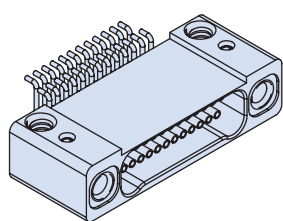
How to Order					
Sample Part Number	891-012	-25P	A2	-BRS	T
Series	891-012 Plug, Right Angle Surface Mount Connector 891-013 Receptacle, Right Angle Surface Mount Connector				
Insert Arrangement/Contact Type	Pins (891-012 Plugs) 9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P Socket (891-013 Receptacles) 9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S				
Shell Material and Finish	A1 - Aluminum Shell, Cadmium Plating A2 - Aluminum Shell, Electroless Nickel Plating T - Titanium Shell, Unplated S - Stainless Steel Shell, Passivated				
Termination Type	BRS - Board Right Angle Surface Mount				
Hardware	T - Female Thread				

Plug (Pin) Connector

Receptacle (Socket) Connector



T - Female Thread

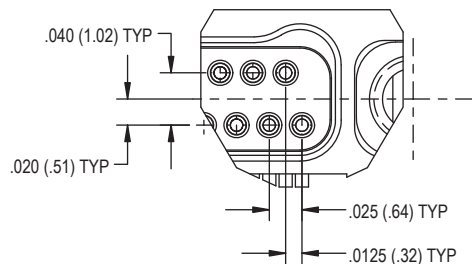


T - Female Thread

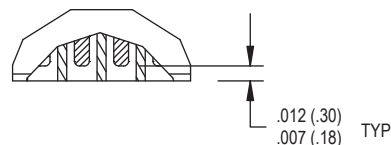
NOTES

- Material and Finish:
 - Shell: see part number break down
 - Insulator: LCP/N/A
 - Contacts: gold alloy / unplated
 - Pre-tinned PC tails: coated with Sn63Pb37 or Sn60Pb40 tin-lead
 - Hardware: passivated stainless steel
- Inspect and test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/3 and /4

DETAIL A

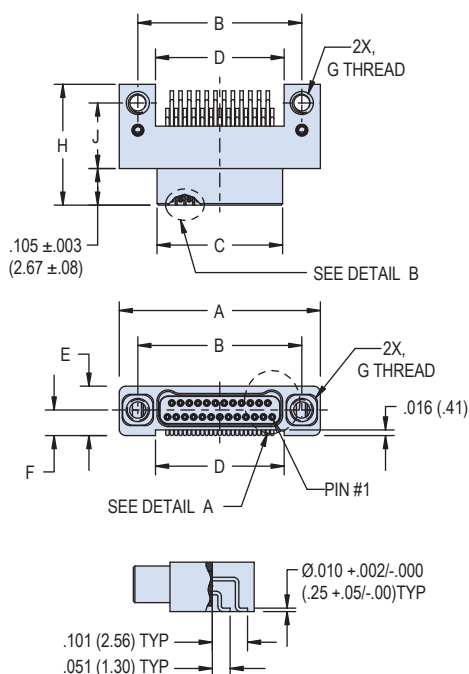


DETAIL B

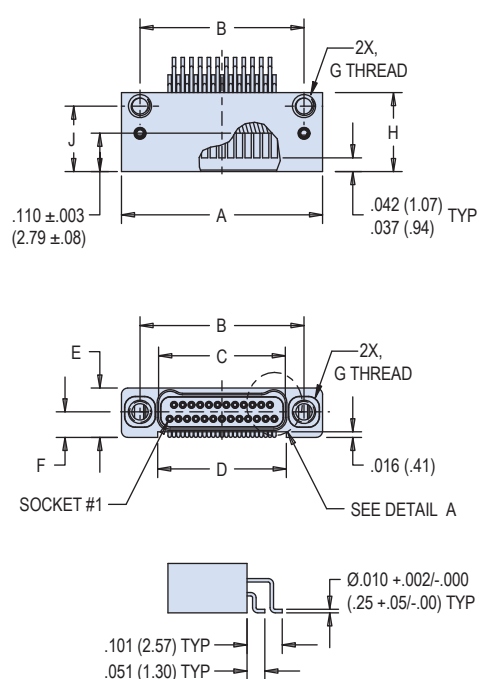


Dimensions

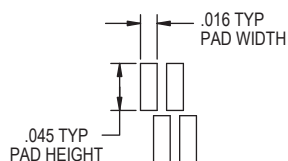
891-012 Plug (Pin) Connectors



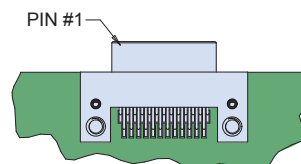
891-013 Receptacle (Socket) Connectors



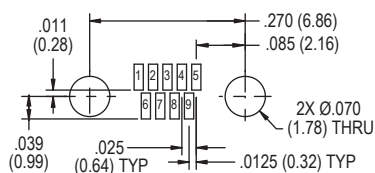
Layout	A		B BSC.		C BSC.		D		E		F BSC.		G Thread	H		J	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.
9P	.375	9.52	.270	6.86	.160	4.06	.170	4.32	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
9S	.375	9.52	.270	6.86	.163	4.14	.170	4.32	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
15P	.450	11.43	.345	8.76	.235	5.97	.245	6.22	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
15S	.450	11.43	.345	8.76	.238	6.04	.245	6.22	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
21P	.525	13.33	.420	10.67	.310	7.87	.320	8.13	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
21S	.525	13.33	.420	10.67	.313	7.95	.320	8.13	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
25P	.575	14.60	.470	11.94	.360	9.14	.370	9.40	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
25S	.575	14.60	.470	11.94	.363	9.22	.370	9.40	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
31P	.650	16.51	.545	13.84	.435	11.05	.445	11.30	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
31S	.650	16.51	.545	13.84	.438	11.12	.445	11.30	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
37P	.725	18.41	.620	15.75	.510	12.95	.520	13.21	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
37S	.725	18.41	.620	15.75	.513	13.03	.520	13.21	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
41P	.775	19.69	.670	17.02	.560	14.23	.570	14.48	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
41S	.775	19.69	.670	17.02	.563	14.30	.570	14.48	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.72	.187	4.75
51P	.900	22.86	.795	20.19	.685	17.40	.695	17.65	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
51S	.900	22.86	.795	20.19	.688	17.47	.695	17.65	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
65P	1.075	27.30	.970	24.64	.860	21.84	.870	22.10	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
65S	1.075	27.30	.970	24.64	.863	21.92	.870	22.10	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
69P	1.125	28.57	1.020	25.91	.910	23.11	.920	23.37	.140	3.56	.0725	1.84	#0-80 UNF	.345	8.76	.187	4.75
69S	1.125	28.57	1.020	25.91	.913	23.19	.920	23.37	.140	3.56	.0725	1.84	#0-80 UNF	.225	5.71	.187	4.75
85P	1.377	34.97	1.246	31.65	1.110	28.19	1.120	28.45	.165	4.19	.085	2.16	#2-56 UNC	.375	9.53	.205	5.34
85S	1.377	34.97	1.246	31.65	1.113	28.27	1.120	28.45	.165	4.19	.085	2.16	#2-56 UNC	.270	6.86	.210	5.21



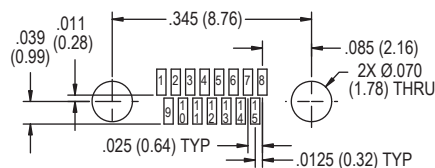
PAD FOOTPRINT DETAIL



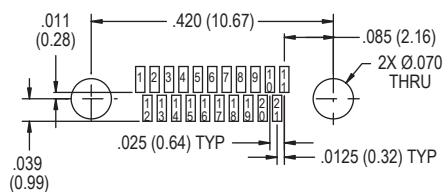
Pin #1 Position



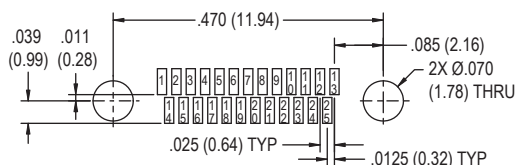
9 Contacts



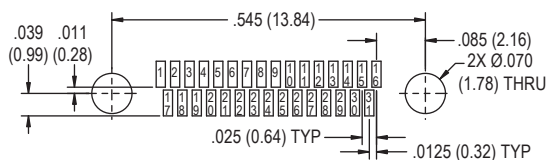
15 Contacts



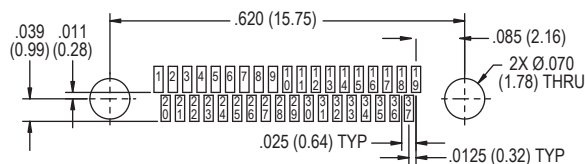
21 Contacts



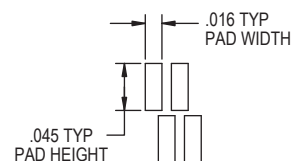
25 Contacts



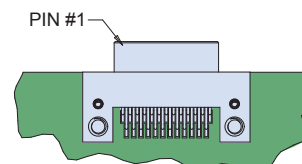
31 Contacts



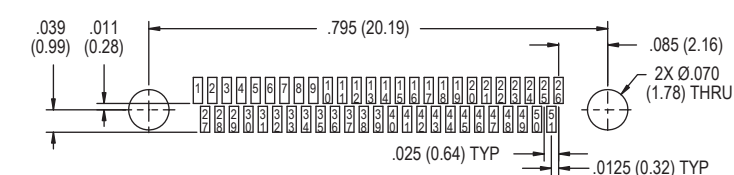
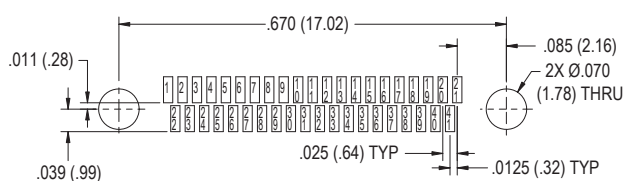
37 Contacts



PAD FOOTPRINT DETAIL

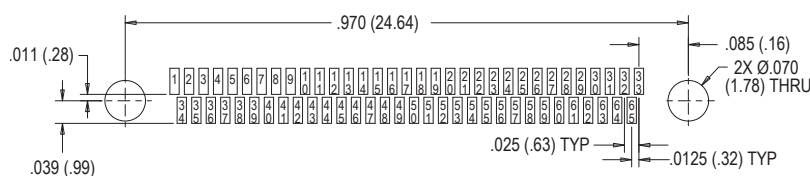


Pin #1 Position

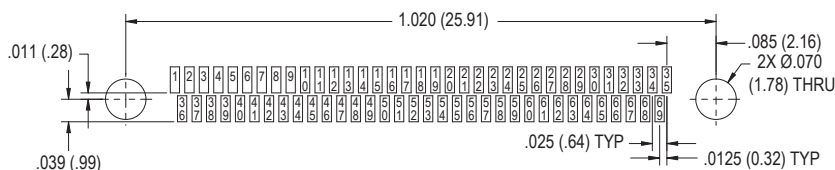


41 Contacts

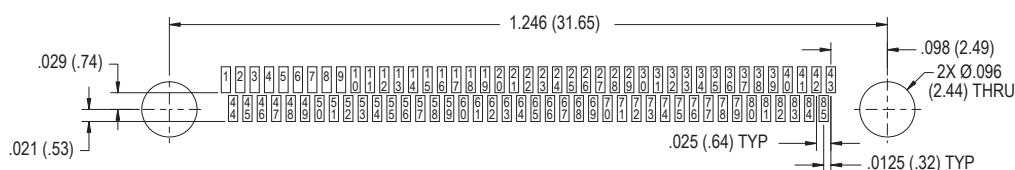
51 Contacts



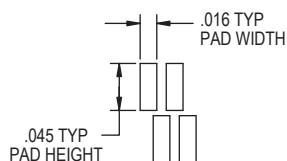
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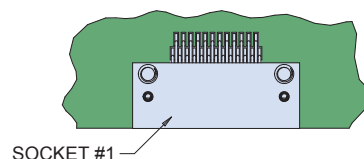
69 Contacts



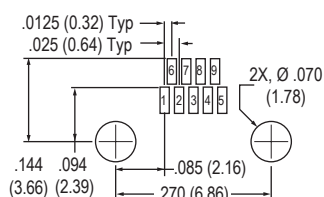
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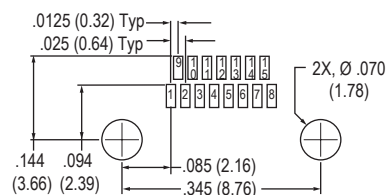
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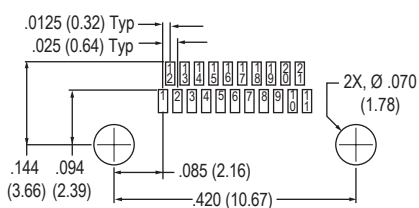
CONNECTOR ORIENTATION



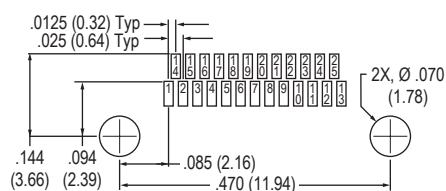
9 Contacts



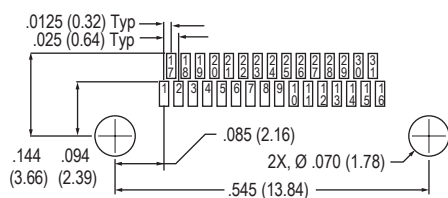
15 Contacts



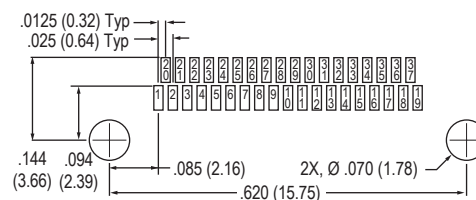
21 Contacts



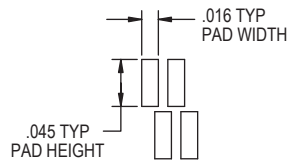
25 Contacts



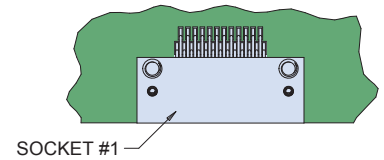
31 Contacts



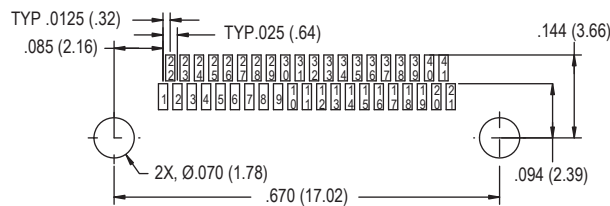
37 Contacts



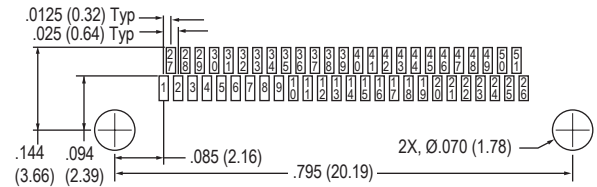
PAD FOOTPRINT DETAIL



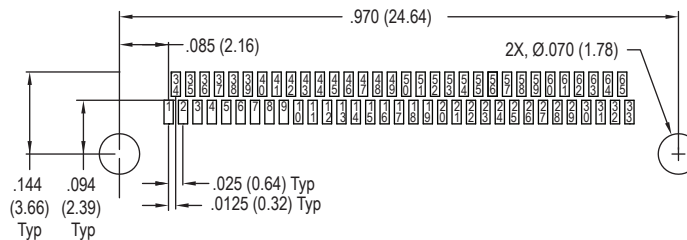
CONNECTOR ORIENTATION



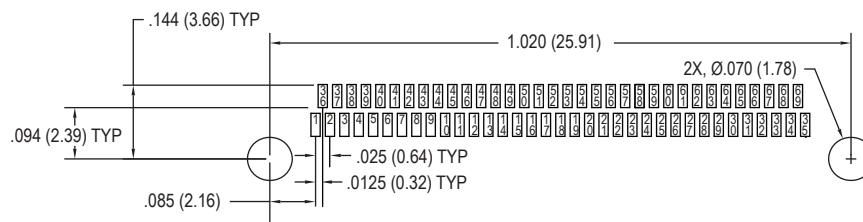
41 Contacts



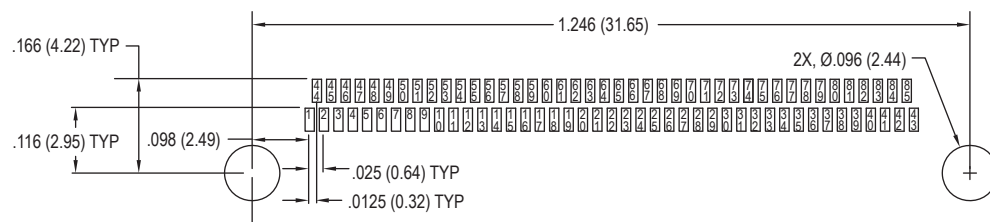
51 Contacts



65 Contacts



69 Contacts



85 Contacts