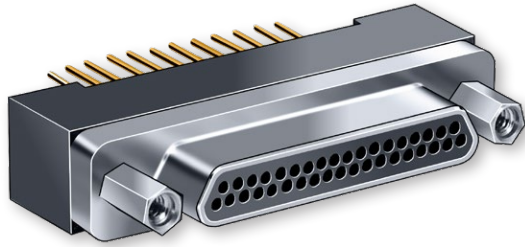




## Micro-D GMR7580 Vertical Mount Printed Circuit Board Connectors



**Save Space On Your Circuit Board** – These Micro-D connectors feature .075 X .075 inch terminal spacing. Glenair's GMR7580 offers significant size and weight savings compared to traditional .100" pitch connectors.

**High Performance** – GMR7580 connectors meet the performance requirements of MIL-DTL-83513. Gold-plated TwistPin contacts assure best performance.

### How To Order GMR7580 Vertical Mount Connectors

Sample Part Number	GMR7580	-31	S	2	B	NN	-513																		
Series	GMR7580 - Micro-D Vertical Mount Connector																								
Contact Layout	9, 15, 21, 25, 31, 37, 51, 100 (See Table II)																								
Contact Type	P - Pin S - Socket																								
Tail Length Inches (mm)	1 - .109" (2.76) 2 - .150" (3.81) 3 - .190" (4.83) 4 - .250" (6.35) 5 - Staggered Tail Length Length in Inches ± .015 (0.38)																								
Shell Plating Finish	Aluminum Shell A - Cadmium C - Allochrome		Stainless Steel Shell F - Passivated E - Gold		B - Nickel D - Black Anodize																				
Hardware Option	NN - No Jackpost, No Threaded Insert PN - Extended Jackpost For .062" (1.6) PCB, No Threaded Insert RN - Extended Jackpost For .196" (5.0) PCB, No Threaded Insert NU - Threaded insert only, no jackposts NM - Metric Threaded Insert Only, No Jackposts SU - Short Jackpost and Threaded Insert SM - Short Jackpost and Metric Threaded Insert (See Table I)		<b>Rear Panel Mount Jackposts and Threaded Inserts</b> <table border="1"> <thead> <tr> <th>UN Threads</th> <th>Metric Threads</th> <th>Panel Thickness</th> </tr> </thead> <tbody> <tr> <td>TU</td> <td>TM</td> <td>.094" (2.4)</td> </tr> <tr> <td>VU</td> <td>VM</td> <td>.062" (1.6)</td> </tr> <tr> <td>WU</td> <td>WM</td> <td>.047" (1.2)</td> </tr> <tr> <td>XU</td> <td>XM</td> <td>.031" (0.8)</td> </tr> <tr> <td>YU</td> <td>YM</td> <td>.023" (0.6)</td> </tr> </tbody> </table>					UN Threads	Metric Threads	Panel Thickness	TU	TM	.094" (2.4)	VU	VM	.062" (1.6)	WU	WM	.047" (1.2)	XU	XM	.031" (0.8)	YU	YM	.023" (0.6)
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YU	YM	.023" (0.6)																							
Gold-Plated Terminal Mod Code	These connectors are solder-dipped in 60/40 tin-lead solder. To delete the solder-dip and change to gold-plated terminals, add code <b>-513</b>																								

Table I: Jackpost Options

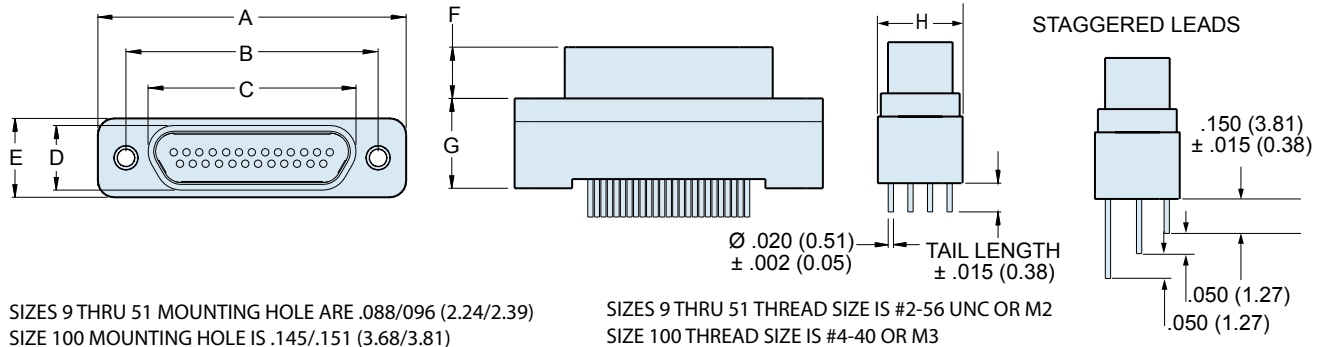
NN	PN and RN	NU, NM	SU, SM	TU, VU, WU, XU, YU TM, VM, WM, XM, YM
Thru-Hole	Jackpost Kit PN - .062 (1.6) PCB RN - .196 (5.0) PCB	Threaded Inserts	Jackpost With Threaded Insert	Jackpost for Rear Panel Mounting

# Micro-D GMR7580 Vertical Mount Printed Circuit Board Connectors



Micro-D PCB

## GMR7580 Connector Dimensions

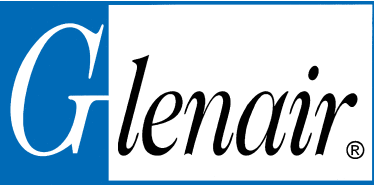


C

Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.	
	In.	mm.	In. $\pm .005$	mm. $\pm 0.13$	In.	mm.	In.	mm.	In.	mm.	In. $\pm .003$	mm. $\pm 0.08$	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.335	8.51	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
9S	.785	19.94	.565	14.35	.400	10.16	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
15P	.935	23.75	.715	18.16	.485	12.32	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
15S	.935	23.75	.715	18.16	.550	13.97	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
21P	1.085	27.56	.865	21.97	.635	16.13	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
21S	1.085	27.56	.865	21.97	.700	17.78	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
25P	1.185	30.01	.965	24.51	.735	18.67	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
25S	1.185	30.01	.965	24.51	.800	20.32	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
31P	1.335	33.91	1.115	28.32	.885	22.48	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
31S	1.335	33.91	1.115	28.32	.950	24.13	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
37P	1.485	37.72	1.265	32.13	1.035	26.29	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
37S	1.485	37.72	1.265	32.13	1.100	27.94	.251	6.38	.310	7.87	.195	4.95	.355	9.02	.310	7.87
51P	1.435	36.45	1.215	30.86	.985	25.02	.228	5.79	.351	8.92	.183	4.65	.355	9.02	.351	8.92
51S	1.435	36.45	1.215	30.86	1.050	26.67	.296	7.52	.351	8.92	.195	4.95	.355	9.02	.351	8.92
100P	2.170	55.12	1.800	45.72	1.384	35.15	.271	6.88	.470	11.94	.183	4.65	.430	10.92	.470	11.94
100S	2.170	55.12	1.800	45.72	1.451	36.86	.333	8.46	.470	11.94	.195	4.95	.430	10.92	.470	11.94

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resist.	32 Milliohms Maximum
Magnetic Permeability	2 $\mu$ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

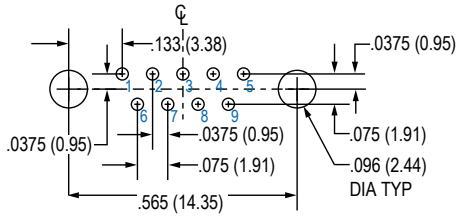
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215



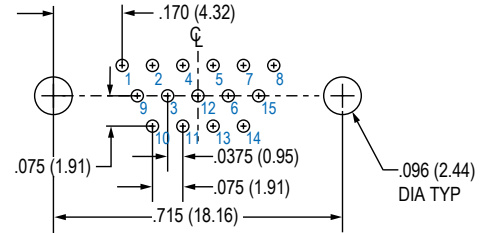
**Micro-D GMR7580  
Vertical Mount  
Printed Circuit Board Connectors**

**GMR7580 Connector PCB Layouts – Pin Connectors**

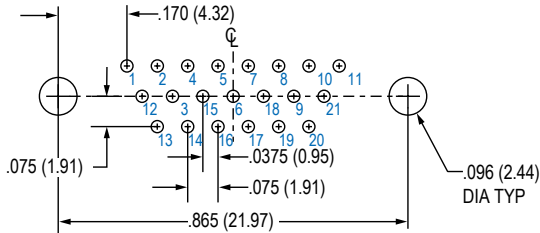
Patterns shown are for connector mounting side of PC board.



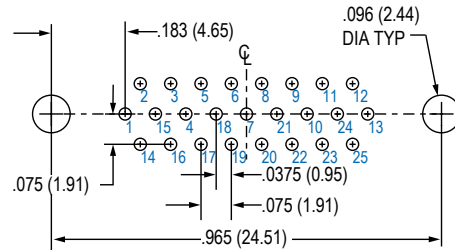
**9 PIN**



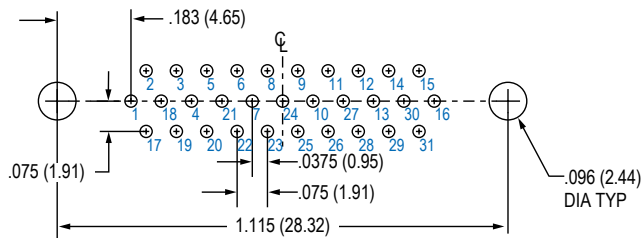
**15 PIN**



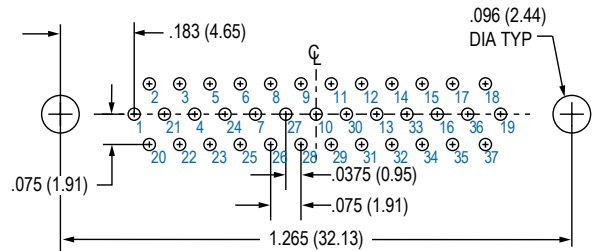
**21 PIN**



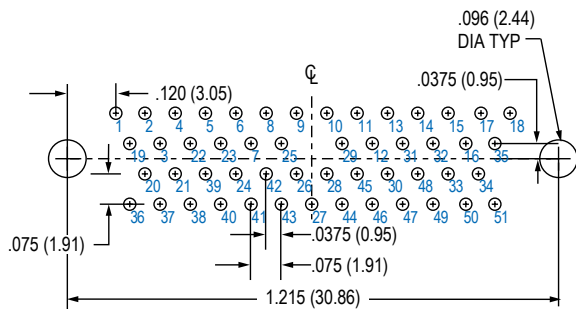
**25 PIN**



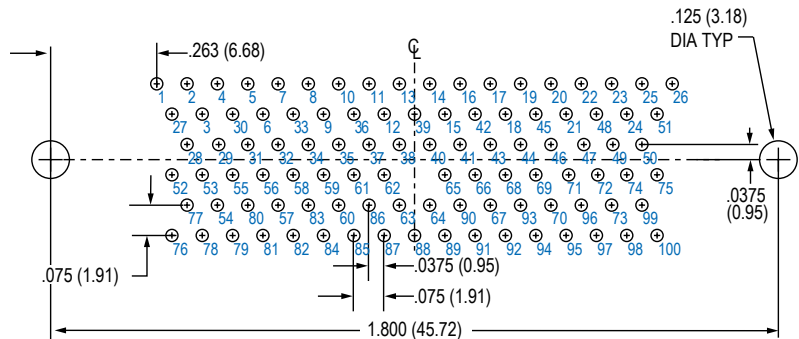
**31 PIN**



**37 PIN**



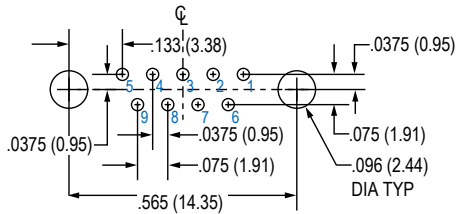
**51 PIN**



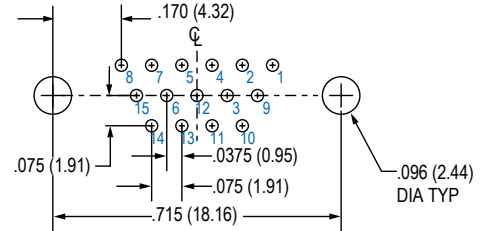
**100 PIN**

## GMR7580 Connector PCB Layouts – Socket Connectors

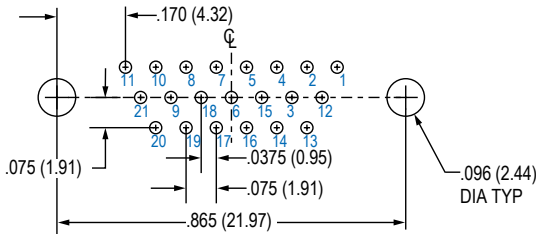
Patterns shown are for connector mounting side of PC board.



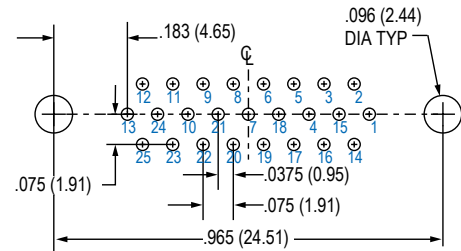
9 SOCKET



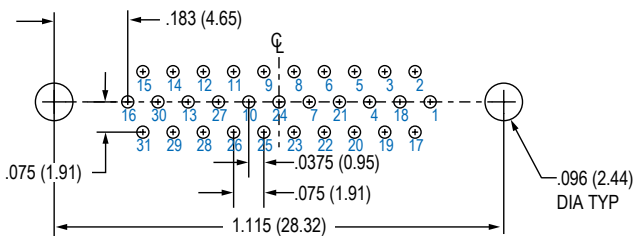
15 SOCKET



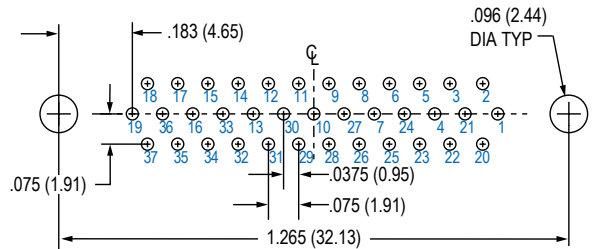
21 SOCKET



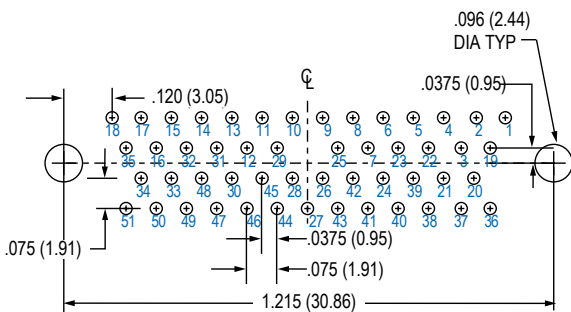
25 SOCKET



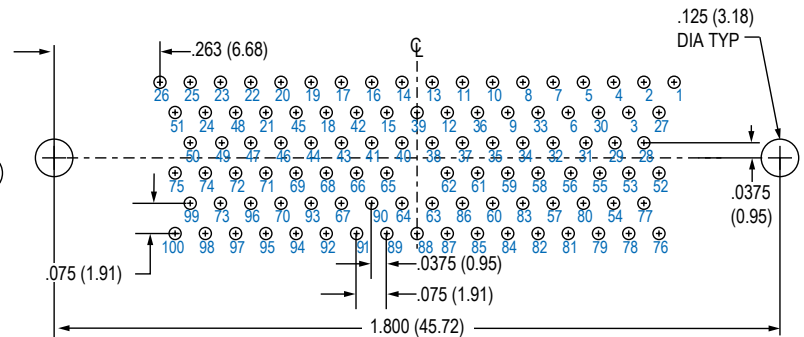
31 SOCKET



37 SOCKET



51 SOCKET



100 SOCKET