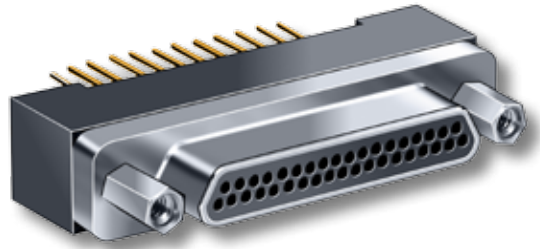




# GMR7580 Vertical Mount Micro-D Connectors



**Save Space On Your Circuit Board** – These Micro-D connectors feature .075 X .075 inch terminal spacing. Glennair'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.

C

## HOW TO ORDER GMR7580 VERTICAL .075" PITCH CONNECTORS

Series	Number of Contacts	Contact Type	Tail Length In. (mm.)	Shell Plating Finish	Hardware Option	Gold-Plated Terminal Mod Code																		
GMR7580 Micro-D Metal Shell, Vertical Mount PCB	9	P Pin	1 – .109" (2.76)	A – Cadmium	<b>NN</b> – No Jackpost, No Threaded Insert <b>PN</b> – Extended Jackpost for .062" (1.6) PCB, No Threaded Insert <b>RN</b> – Extended Jackpost for .196" (5.0) PCB, No Threaded Insert <b>NU</b> – UN Threaded Insert Only, No Jackposts <b>NM</b> – Metric Threaded Insert Only, No Jackposts <b>SU</b> – Short Jackpost and UN Threaded Insert <b>SM</b> – Short Jackpost and Metric Threaded Insert  <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><b>TU</b></td> <td><b>TM</b></td> <td>.094" (2.4)</td> </tr> <tr> <td><b>VU</b></td> <td><b>VM</b></td> <td>.062" (1.6)</td> </tr> <tr> <td><b>WU</b></td> <td><b>WM</b></td> <td>.047" (1.2)</td> </tr> <tr> <td><b>XU</b></td> <td><b>XM</b></td> <td>.031" (0.8)</td> </tr> <tr> <td><b>YU</b></td> <td><b>YM</b></td> <td>.023" (0.6)</td> </tr> </tbody> </table>	UN Threads	Metric Threads	Panel Thickness	<b>TU</b>	<b>TM</b>	.094" (2.4)	<b>VU</b>	<b>VM</b>	.062" (1.6)	<b>WU</b>	<b>WM</b>	.047" (1.2)	<b>XU</b>	<b>XM</b>	.031" (0.8)	<b>YU</b>	<b>YM</b>	.023" (0.6)	These connectors are solder-dipped in 63/37 tin-lead solder.  <b>To delete the solder-dip and change to gold-plated terminals, add code 513</b>
	UN Threads		Metric Threads	Panel Thickness																				
	<b>TU</b>		<b>TM</b>	.094" (2.4)																				
	<b>VU</b>		<b>VM</b>	.062" (1.6)																				
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	<b>YU</b>	<b>YM</b>	.023" (0.6)																					
	15	S Socket	2 – .150" (3.81)	B – Nickel																				
	21		3 – .190" (4.83)	C – Alchrome																				
	25		4 – .250" (6.35)	D – Black Anodize																				
31	5 – Staggered Tail Length		E – Gold																					
37	Length in Inches ± .015 (0.38)		<b>Stainless Steel Shell</b>																					
51		F – Passivated																						
100																								
<b>Sample Part Number</b>																								
GMR7580	- 31	S	2	B	NN																			

## GMR7580 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

# GMR7580 Vertical Mount Micro-D Connectors



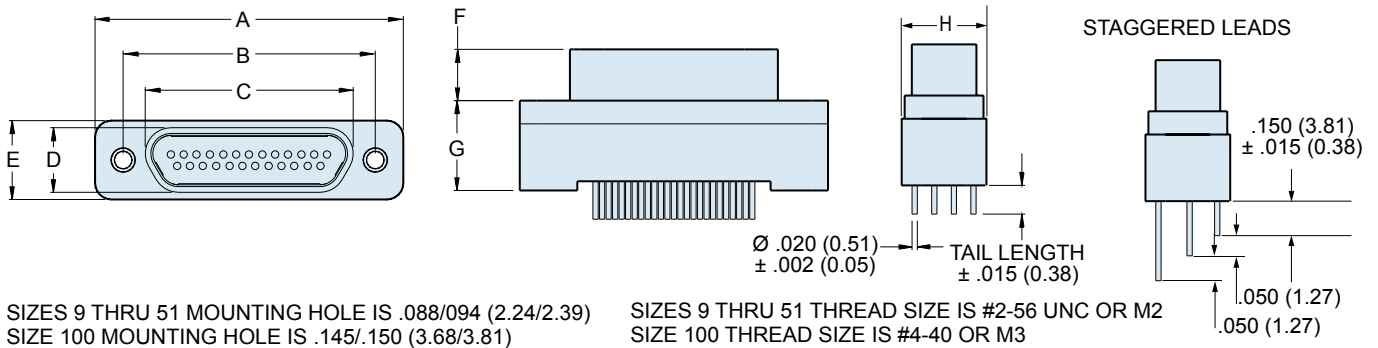
Micro-D  
PCB

## 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)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
PCB Terminals	Tin Plated Copper Alloy (100% Tin)
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215

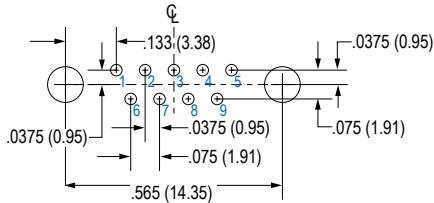


## GMR7580 CONNECTOR DIMENSIONS

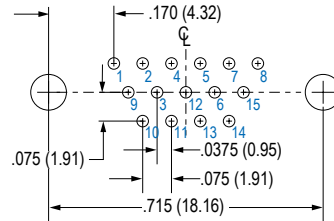
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.	
	In.	mm.	In. ± .005	mm. ± 0.13	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.335	8.51	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
9S	.785	19.94	.565	14.35	.400	10.16	.251	6.38	.310	7.87	.195	4.95	.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	.394	10.00	.183	4.65	.430	10.92	.470	11.94
100S	2.170	55.12	1.800	45.72	1.451	36.86	.394	10.00	.394	10.00	.195	4.95	.430	10.92	.470	11.94

## GMR7580 CONNECTOR PCB LAYOUTS – PIN CONNECTORS

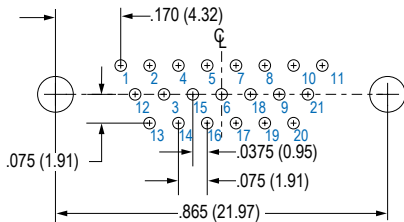
Patterns shown are for connector mounting side of PC board.



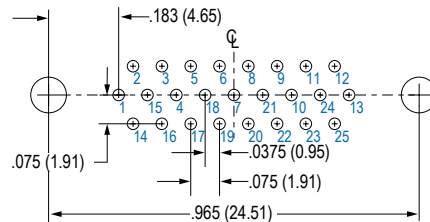
9 PIN



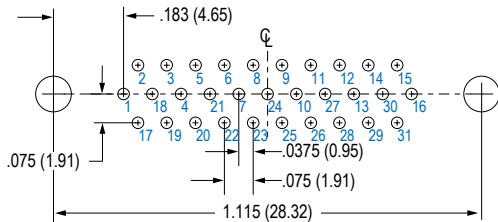
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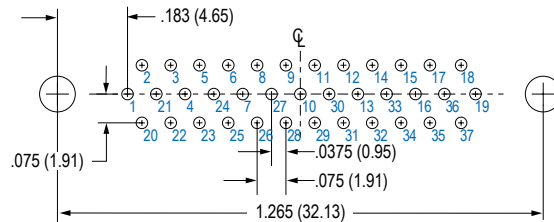
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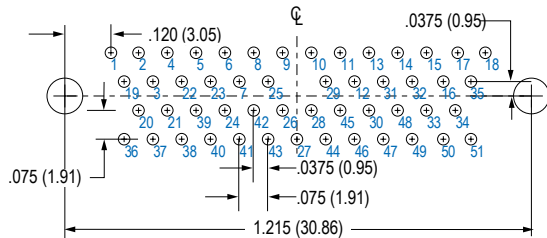
25 PIN



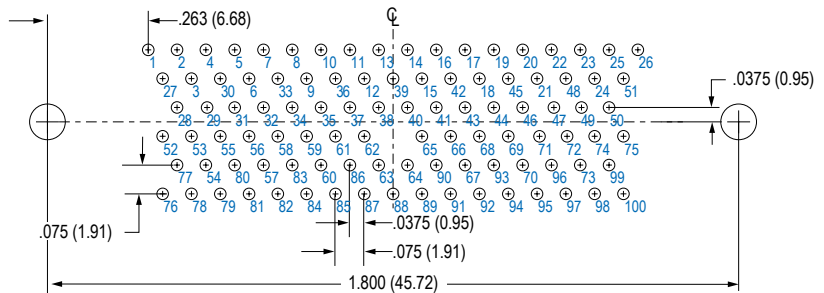
31 PIN



37 PIN



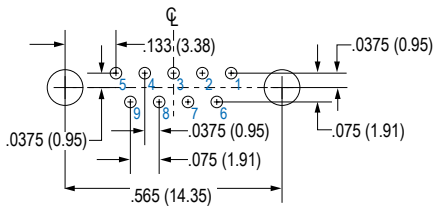
51 PIN



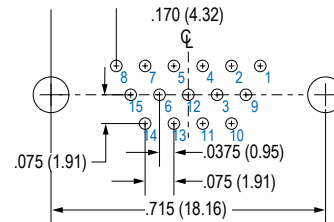
100 PIN

## GMR7580 CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS

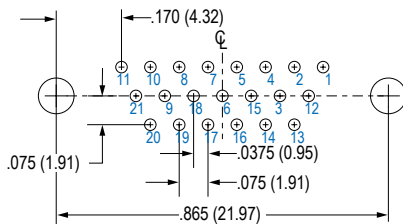
Patterns shown are for connector mounting side of PC board.



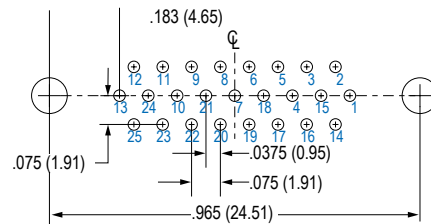
**9 SOCKET**



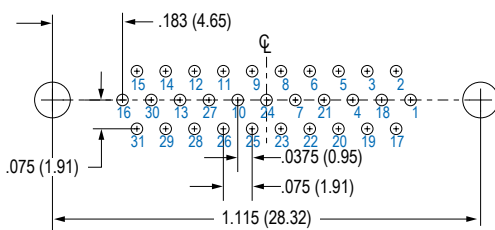
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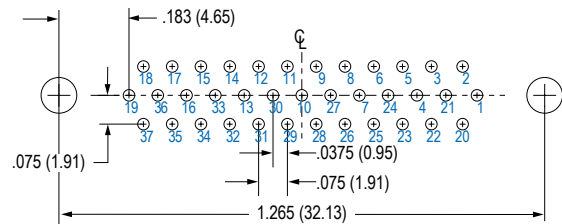
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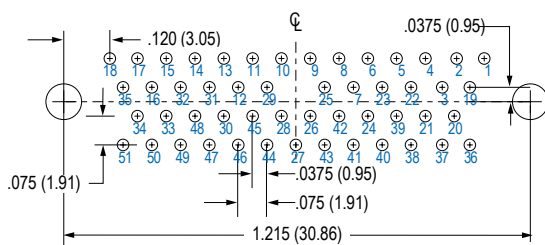
**25 SOCKET**



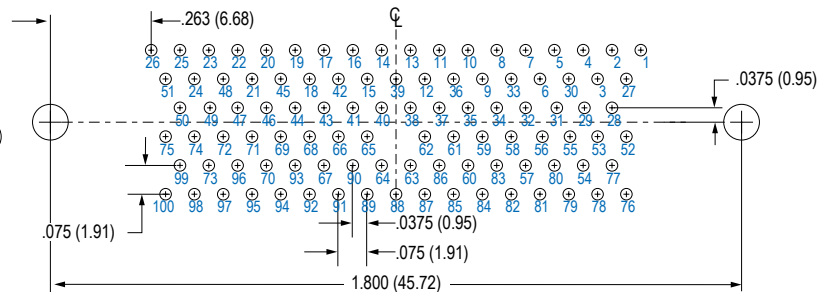
**31 SOCKET**



**37 SOCKET**



**51 SOCKET**



**100 SOCKET**