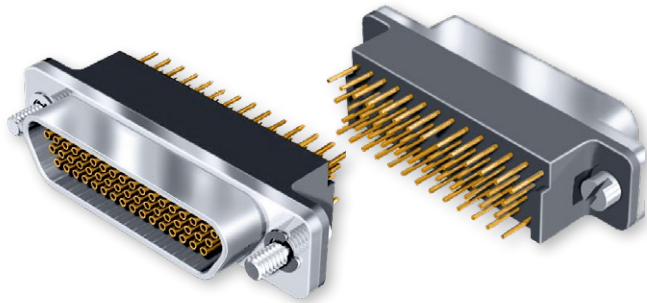




## Micro-D GMR7580C Compact Flange Vertical Mount Printed Circuit Board Connector



**Innovative Design for Flex Circuits** – These Micro-D connectors answer the need for a compact flex circuit connector. Featuring .075 X .075 inch row spacing. Glenair's GMR7580C accepts standard jackscrews and jackposts, making it ideal for flex-to-board applications.

**High Performance** – GMR7580C connectors meet the performance requirements of MIL-DTL-83513. Gold-plated TwistPin contacts assure best electrical and mechanical performance.

### How To Order GMR7580 Vertical .075" Pitch Connectors

Sample Part Number	GMR7580C	-31	S	2	B	S1	-513
<b>Series</b>	<b>GMR7580C</b> Micro-D Metal Shell, Vertical Mount PCB, Compact						
<b>Contact Layout</b>	<b>9, 15, 21, 25, 31, 37, 51, 100</b> (Table II)						
<b>Contact Type</b>	<b>P</b> - Pin <b>S</b> - Socket						
<b>Tail Length in Inches (mm.)</b>	<b>1</b> - .109" (2.76) <b>2</b> - .150" (3.81) <b>3</b> - .190" (4.83) <b>4</b> - .250" (6.35) <b>5</b> - Staggered Tail Length Length in Inches ± .015 (0.38)						
<b>Shell Plating Finish</b>	Aluminum Shell <b>A</b> - Cadmium <b>B</b> - Nickel <b>C</b> - Alchrome <b>D</b> - Black Anodize <b>E</b> - Gold			Stainless Steel Shell <b>F</b> - Passivated			
<b>Mounting Hardware</b>	<b>B, P, M, M1, S, S1, L, K, F, R</b> (See Table I)						
<b>Gold-Plated Terminal Mod Code</b>	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>						

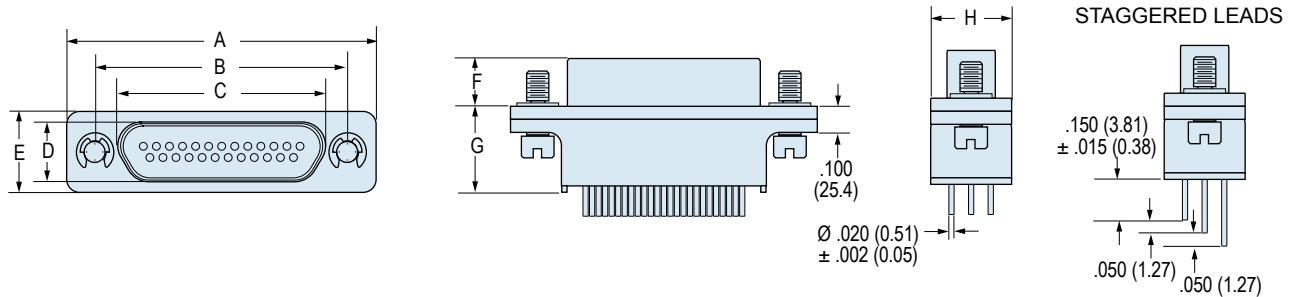
Table I: Mounting Hardware

B	P	M	M1	S	S1	L	K	F	R
Thru-Hole Order Hardware Separately	Jackpost Removable Includes Nut and Washer	Jackscrew Hex Head Removable E-ring	Jackscrew Hex Head Removable E-ring Extended	Jackscrew Slot Head Removable E-ring	Jackscrew Slot Head Removable E-ring Extended	Jackscrew Hex Head Non- Removable	Jackscrew Slot Head Non- Removable Extended	Float Mount For Front Panel Mounting	Float Mount For Rear Panel Mounting

# Micro-D GMR7580C Compact Flange Vertical Mount Printed Circuit Board Connector



Table II: Dimensions



SIZES 9 THRU 51 MOUNTING HOLE IS .088/096 (2.24/2.39)  
SIZE 100 MOUNTING HOLE IS .145/.151 (3.68/3.81)

SIZES 9 THRU 51 THREAD SIZE IS #2-56 UNC  
SIZE 100 THREAD SIZE IS #4-40

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	.333	8.46	.394	10.00	.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.	32v Milliohms Maximum
Magnetic Permeability	2 μ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

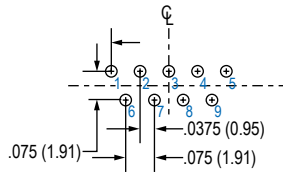
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel 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



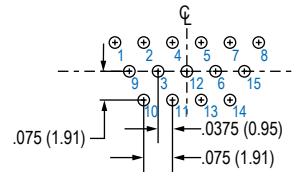
Micro-D GMR7580C Compact Flange  
Vertical Mount  
Printed Circuit Board Connector

GMR7580C Connector PCB Layouts – Pin Connectors

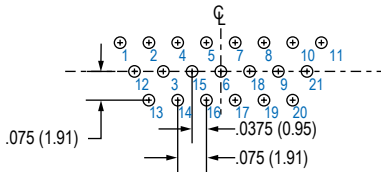
Patterns shown are for connector mounting side of PC board.



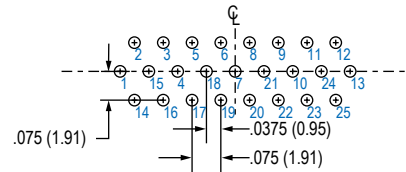
9 PIN



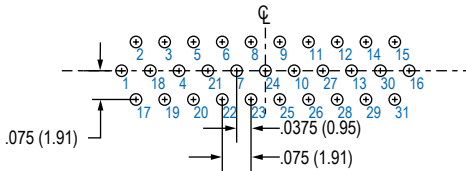
15 PIN



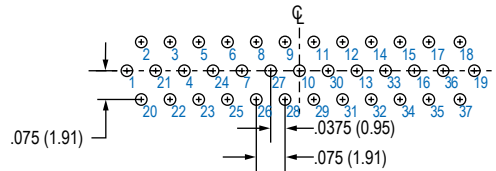
21 PIN



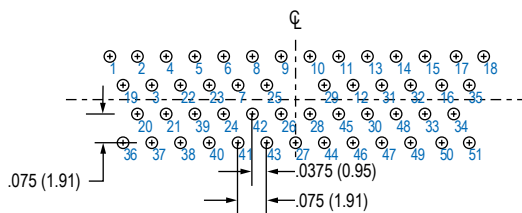
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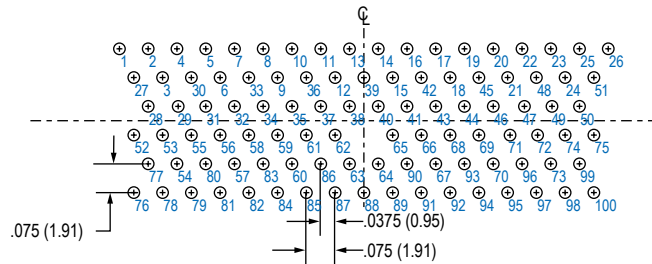
31 PIN



37 PIN



51 PIN



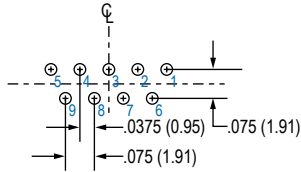
100 PIN

Micro-D GMR7580C Compact Flange  
Vertical Mount  
Printed Circuit Board Connector

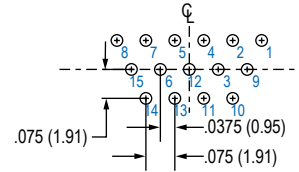


GMR7580C Connector PCB Layouts – Socket Connectors

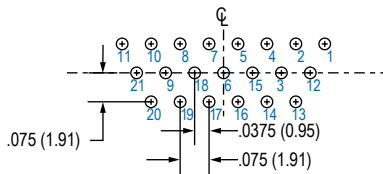
Patterns shown are for connector mounting side of PC board.



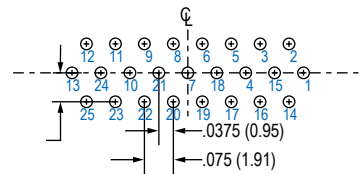
9 SOCKET



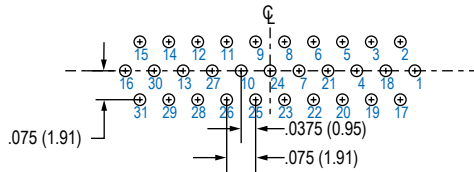
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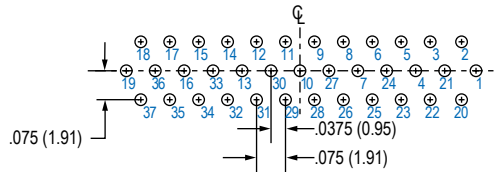
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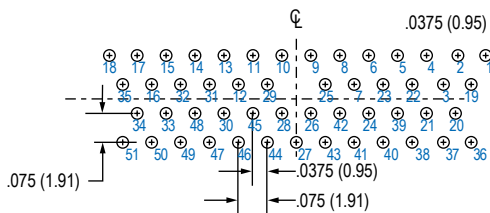
25 SOCKET



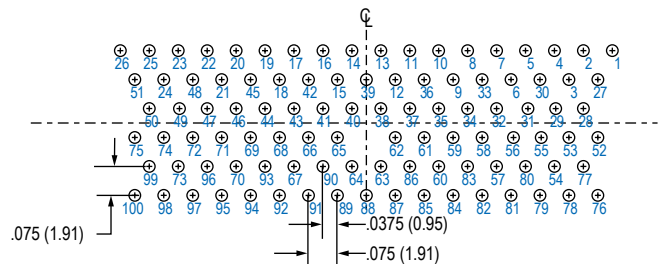
31 SOCKET



37 SOCKET



51 SOCKET



100 SOCKET