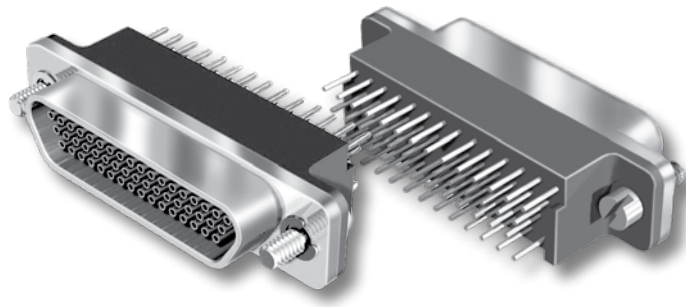




# GMR7580C Vertical Mount Micro-D Connectors Compact Flange



**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** – Approved for British Standard BS9000, 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

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

## MICRO-D MOUNTING HARDWARE

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

# GMR7580C Vertical Mount Micro-D Connectors Compact Flange



Micro-D  
PCB

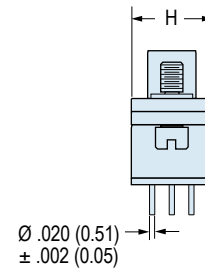
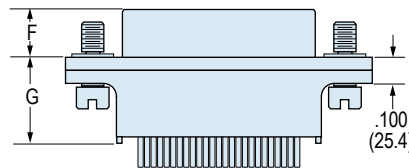
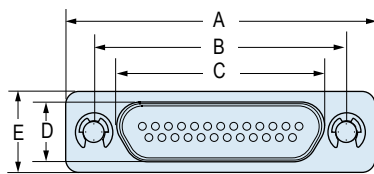
## PERFORMANCE SPECIFICATIONS

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)

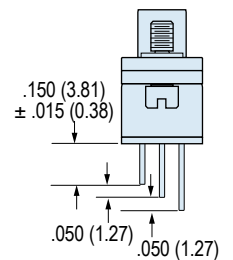
## MATERIALS AND FINISHES

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	Flourosilicone Rubber, Blue
Pin Contact	Beryllium Copper 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

C



### STAGGERED LEADS



SIZES 9 THRU 51 MOUNTING HOLE IS .088/.094 (2.24/2.39)  
SIZE 100 MOUNTING HOLE IS .145/.150 (3.68/3.81)

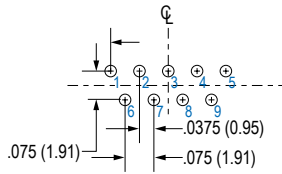
SIZES 9 THRU 51 THREAD SIZE IS #2-56 UNC  
SIZE 100 THREAD SIZE IS #4-40

## GMR7580C CONNECTOR DIMENSIONS

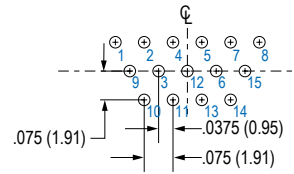
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.	
	In.	mm.	In. ±.005	mm. ±0.13	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ±0.08	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.335	8.51	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
9S	.785	19.94	.565	14.35	.400	10.16	.251	6.38	.310	7.87	.195	4.95	.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	.294	7.47	.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	1.508	38.30	.394	10.00	.394	10.00	.195	4.95	.430	10.92	.470	11.94

## GMR7580C CONNECTOR PCB LAYOUTS – PIN CONNECTORS

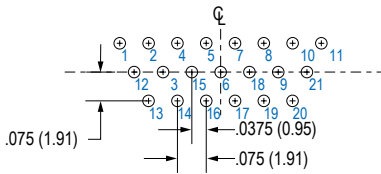
Patterns shown are for connector mounting side of PC board.



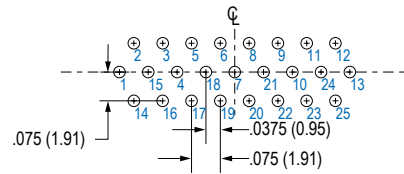
9 PIN



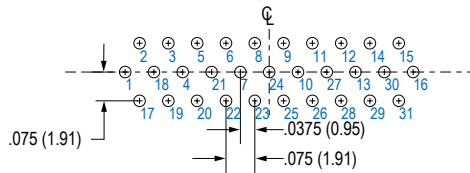
15 PIN



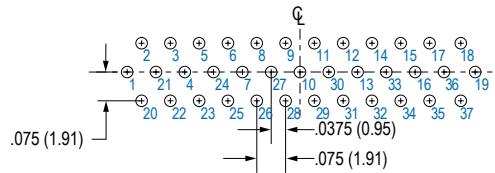
21 PIN



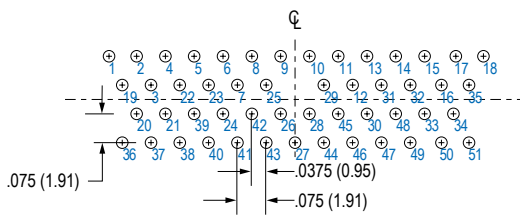
25 PIN



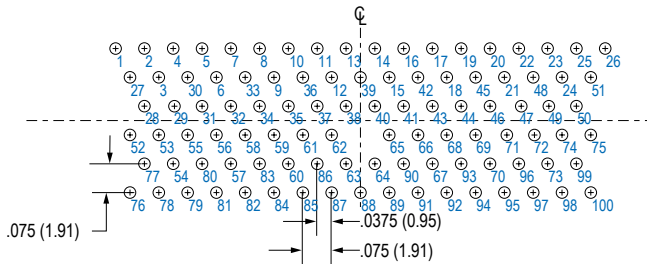
31 PIN



37 PIN



51 PIN



100 PIN

# GMR7580C Vertical Mount Micro-D Connectors Compact Flange



Micro-D  
PCB

Patterns shown are for connector mounting side of PC board.

