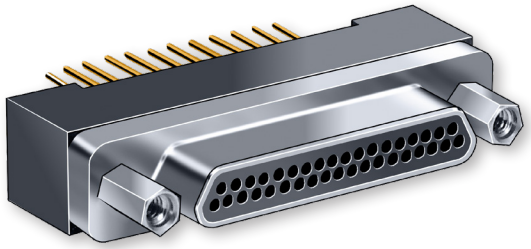
Micro-D GMR7580
Vertical Mount
Printed Circuit Board Connectors



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		Stainless Steel Shell	
A - Cadmium	**B** - Nickel	**F** - Passivated	
C - Allochrome	**D** - Black Anodize	**E** - Gold	

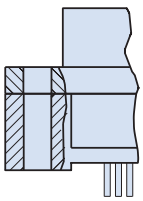
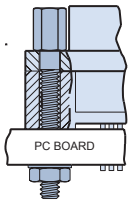
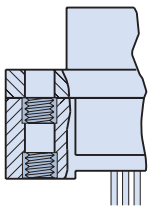
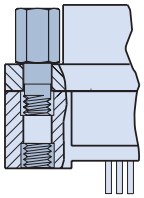
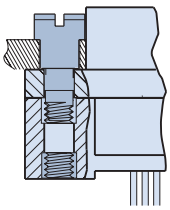
Hardware Option
NN - No Jackpost, No Threaded Insert
PN - Extended Jackpost For .062" (1.6) PCB, No Threaded Insert
RN - Extended Jackpost For .196" (5.0) PCB, No Threaded Insert
NU - Threaded insert only, no jackposts
NM - Metric Threaded Insert Only, No Jackposts
SU - Short Jackpost and Threaded Insert
SM - Short Jackpost and Metric Threaded Insert
(See Table I)

Rear Panel Mount Jackposts and Threaded Inserts

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)

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 **-513**

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

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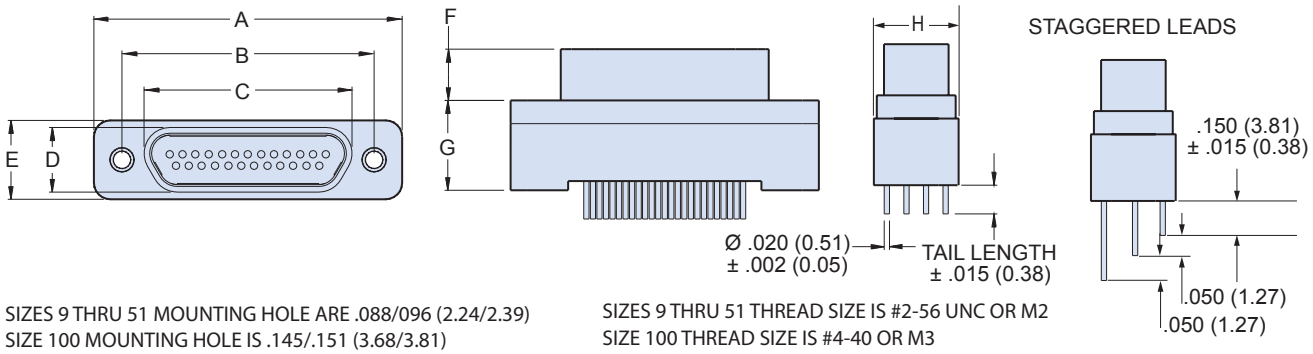
GMR7580 Connector Dimensions



SIZES 9 THRU 51 MOUNTING HOLE ARE .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 OR M2
SIZE 100 THREAD SIZE IS #4-40 OR M3

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	30.10	.965	24.51	.735	18.67	.185	4.70	.310	7.87	.183	4.65	.355	9.02	.310	7.87
25S	1.185	30.10	.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 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

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Vertical Mount
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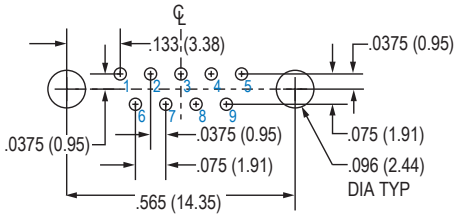
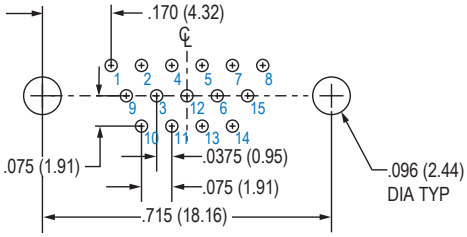
GMR7580 Connector PCB Layouts – Pin Connectors

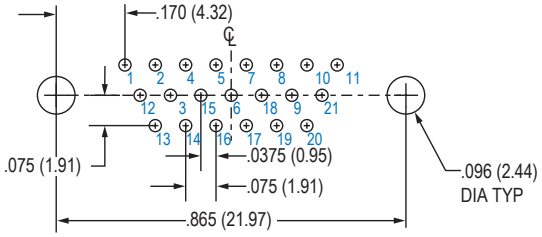
Patterns shown are for connector mounting side of PC board.



9 PIN



15 PIN



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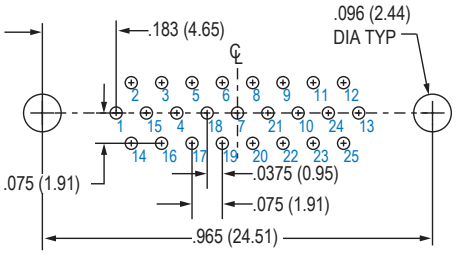
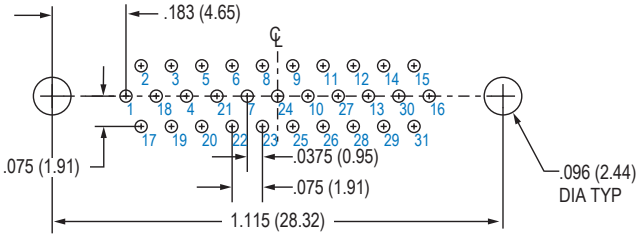
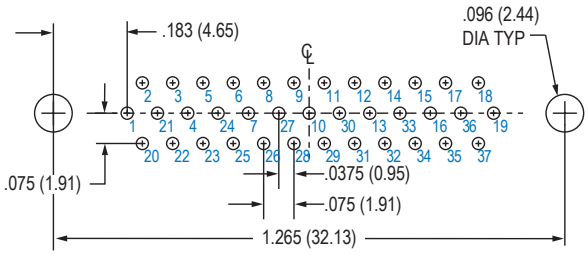


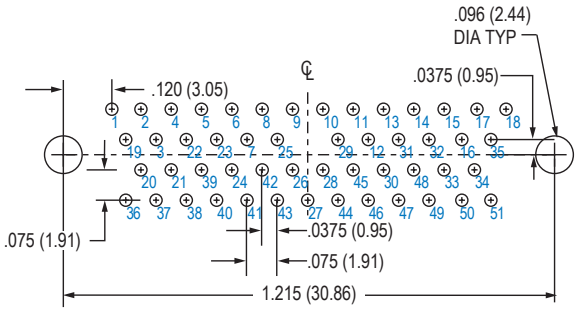
25 PIN



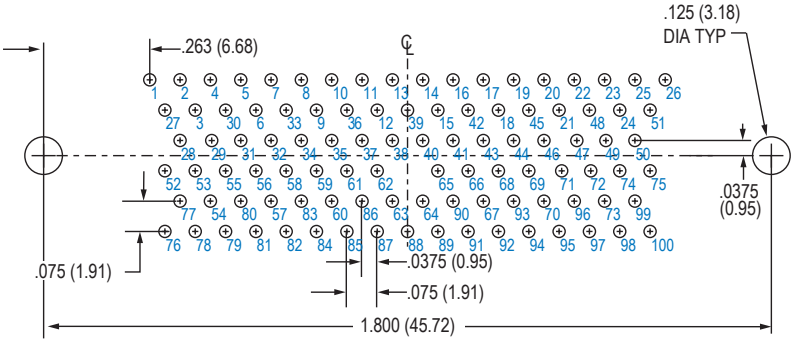
31 PIN



37 PIN



51 PIN

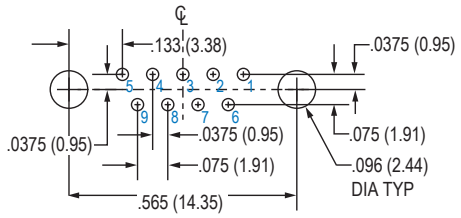


100 PIN

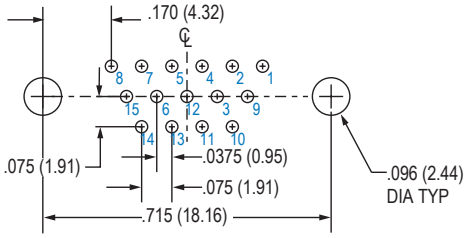
 High Performance Micro-D Connectors and Cables U.S. CAGE Code 06324 Printed in U.S.A.

GMR7580 Connector PCB Layouts – Socket Connectors

Patterns shown are for connector mounting side of PC board.



9 SOCKET



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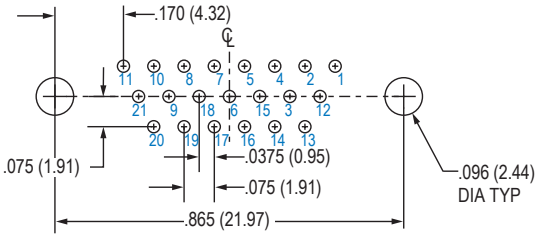

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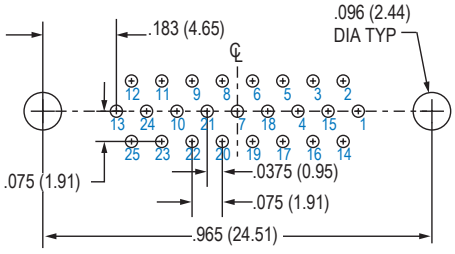
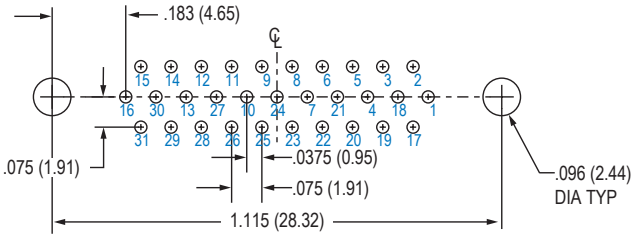


25 SOCKET



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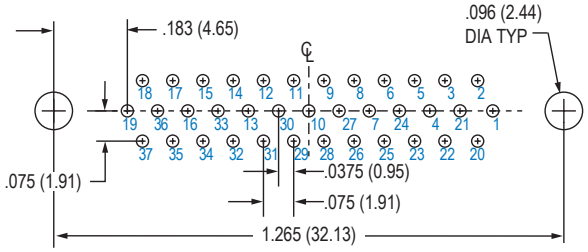

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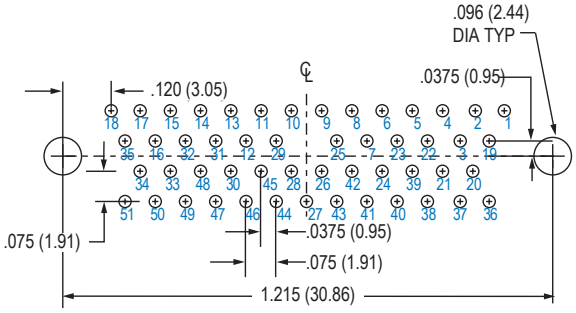

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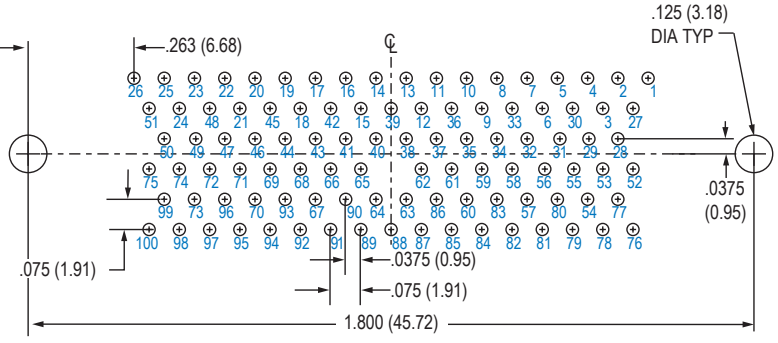

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