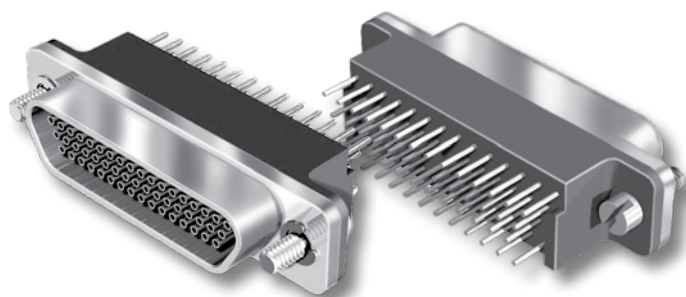


GMR7580C Vertical Mount Micro-D Connectors  
Compact Flange

**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<br>In. (mm.)             | Shell Plating<br>Finish                                                                                         | Hardware                                                                                                               | Gold-Plated<br>Terminal Mod<br>Code                                                                                                            |
|---------------------------------------------------------------------------|--------------------|--------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GMR7580C</b><br>Micro-D Metal Shell,<br>Vertical Mount PCB,<br>Compact | <b>9</b>           | <b>P</b><br>Pin    | <b>1</b> – .109" (2.76)              | <b>A</b> – Cadmium<br><b>B</b> – Nickel<br><b>C</b> – Allochrome<br><b>D</b> – Black Anodize<br><b>E</b> – Gold | <b>B</b><br><b>P</b><br><b>M</b><br><b>M1</b><br><b>S</b><br><b>S1</b><br><b>L</b><br><b>K</b><br><b>F</b><br><b>R</b> | These connectors are solder-dipped in 63/37 tin-lead solder.<br><br>To delete the solder dip and change to gold-plated terminals, add code 513 |
|                                                                           | <b>15</b>          |                    | <b>2</b> – .150" (3.81)              |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>21</b>          |                    | <b>3</b> – .190" (4.83)              |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>25</b>          | <b>S</b><br>Socket | <b>4</b> – .250" (6.35)              |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>31</b>          |                    | <b>5</b> – Staggered Tail Length     |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>37</b>          |                    | Length in Inches<br>± .015<br>(0.38) |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>51</b>          |                    |                                      |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
|                                                                           | <b>100</b>         |                    |                                      |                                                                                                                 |                                                                                                                        |                                                                                                                                                |
| <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><br>Order Hardware Separately | <b>Jackpost</b><br>Removable Includes Nut and Washer | <b>Jackscrew</b><br>Hex Head Removable E-ring | <b>Jackscrew</b><br>Hex Head Removable E-ring Extended | <b>Jackscrew</b><br>Slot Head Removable E-ring | <b>Jackscrew</b><br>Slot Head Removable E-ring Extended | <b>Jackscrew</b><br>Hex Head Non-Removable | <b>Jackscrew</b><br>Slot Head Non-Removable Extended | <b>Float Mount</b><br>For Front Panel Mounting | <b>Float Mount</b><br>For Rear Panel Mounting |

# GMR7580C Vertical Mount Micro-D Connectors Compact Flange



Micro-D  
PCB

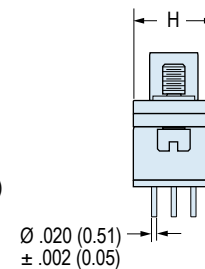
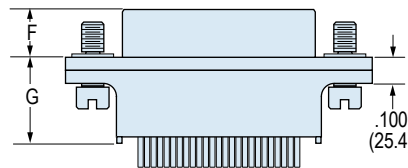
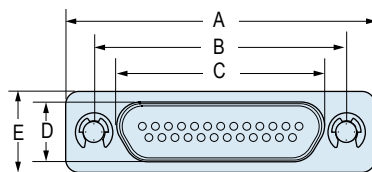
## PERFORMANCE SPECIFICATIONS

|                           |                               |
|---------------------------|-------------------------------|
| 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) |

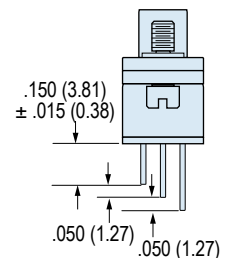
## MATERIALS AND FINISHES

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| 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 | Fluorosilicone 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)

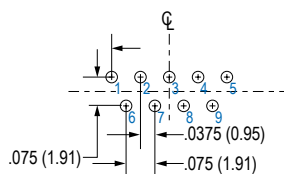
SIZES 9 THRU 51 THREAD SIZE IS #2-56 UNC  
SIZE 100 THREAD SIZE IS #4-40

## GMR7580C CONNECTOR DIMENSIONS

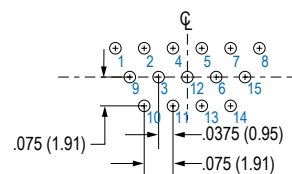
| Layout | A Max. |       | B              |                | C Max. |       | D Max. |       | E Max. |       | F              |                | G Max. |       | H Max. |       |
|--------|--------|-------|----------------|----------------|--------|-------|--------|-------|--------|-------|----------------|----------------|--------|-------|--------|-------|
|        | In.    | mm.   | In. $\pm .005$ | 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 | .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

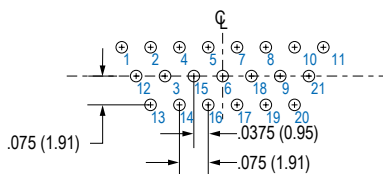
Patterns shown are for connector mounting side of PC board.



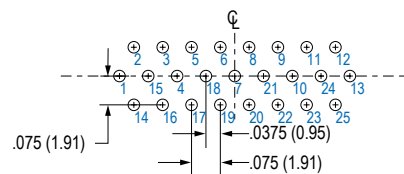
9 PIN



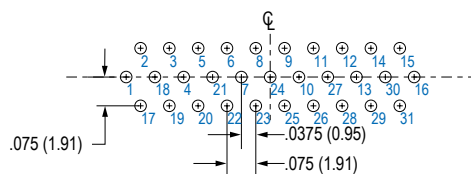
15 PIN



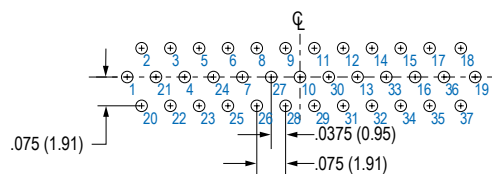
21 PIN



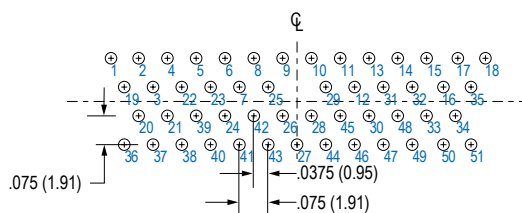
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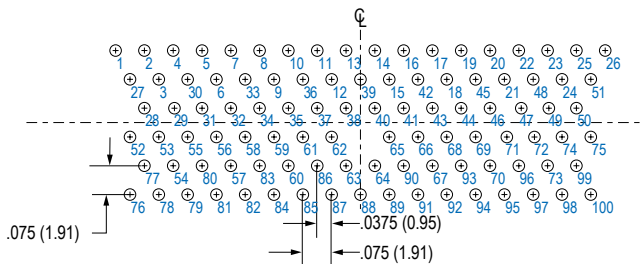
31 PIN



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.

