**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.


### Table I: Mounting Hardware

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

### Sample Part Number

**GMR7580C**

**Micro-D Metal Shell, Vertical Mount PCB, Compact**

**Contact Layout**

9, 15, 21, 25, 31, 37, 51, 100 (Table I)

**Contact Type**

P - Pin  S - Socket

**Tail Length in 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  C - Allochrome  F - Passivated

D - Black Anodize  E - Gold

**Mounting Hardware**

B, P, M, M1, S, S1, L, K, F, R (See Table I)

**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 II: Dimensions

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>mm.</td>
<td>In. ± 0.05</td>
<td>mm. ± 0.13</td>
<td>In.</td>
<td>mm.</td>
<td>In.</td>
<td>mm.</td>
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<tr>
<td>9P</td>
<td>0.785</td>
<td>19.94</td>
<td>0.565</td>
<td>14.35</td>
<td>0.335</td>
<td>8.51</td>
<td>0.185</td>
<td>4.70</td>
</tr>
<tr>
<td>9S</td>
<td>0.785</td>
<td>19.94</td>
<td>0.565</td>
<td>14.35</td>
<td>0.400</td>
<td>10.16</td>
<td>0.251</td>
<td>6.38</td>
</tr>
<tr>
<td>15P</td>
<td>0.935</td>
<td>23.75</td>
<td>0.715</td>
<td>18.16</td>
<td>0.485</td>
<td>12.32</td>
<td>0.185</td>
<td>4.70</td>
</tr>
<tr>
<td>15S</td>
<td>0.935</td>
<td>23.75</td>
<td>0.715</td>
<td>18.16</td>
<td>0.550</td>
<td>13.97</td>
<td>0.251</td>
<td>6.38</td>
</tr>
<tr>
<td>21P</td>
<td>1.085</td>
<td>27.56</td>
<td>0.865</td>
<td>21.97</td>
<td>0.635</td>
<td>16.13</td>
<td>0.185</td>
<td>4.70</td>
</tr>
<tr>
<td>21S</td>
<td>1.085</td>
<td>27.56</td>
<td>0.865</td>
<td>21.97</td>
<td>0.700</td>
<td>17.78</td>
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<td>24.51</td>
<td>0.735</td>
<td>18.67</td>
<td>0.185</td>
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</tr>
<tr>
<td>25S</td>
<td>1.185</td>
<td>30.01</td>
<td>0.965</td>
<td>24.51</td>
<td>0.800</td>
<td>20.32</td>
<td>0.251</td>
<td>6.38</td>
</tr>
<tr>
<td>31P</td>
<td>1.335</td>
<td>33.91</td>
<td>1.115</td>
<td>28.32</td>
<td>0.885</td>
<td>22.48</td>
<td>0.185</td>
<td>4.70</td>
</tr>
<tr>
<td>31S</td>
<td>1.335</td>
<td>33.91</td>
<td>1.115</td>
<td>28.32</td>
<td>0.950</td>
<td>24.13</td>
<td>0.251</td>
<td>6.38</td>
</tr>
<tr>
<td>37P</td>
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<td>37.72</td>
<td>1.265</td>
<td>32.13</td>
<td>1.035</td>
<td>26.29</td>
<td>0.185</td>
<td>4.70</td>
</tr>
<tr>
<td>37S</td>
<td>1.485</td>
<td>37.72</td>
<td>1.265</td>
<td>32.13</td>
<td>1.100</td>
<td>27.94</td>
<td>0.251</td>
<td>6.38</td>
</tr>
<tr>
<td>51P</td>
<td>1.435</td>
<td>36.45</td>
<td>1.215</td>
<td>30.86</td>
<td>0.985</td>
<td>25.02</td>
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<td>5.79</td>
</tr>
<tr>
<td>51S</td>
<td>1.435</td>
<td>36.45</td>
<td>1.215</td>
<td>30.86</td>
<td>1.050</td>
<td>26.67</td>
<td>0.296</td>
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<tr>
<td>100P</td>
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<td>45.72</td>
<td>1.384</td>
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</tr>
<tr>
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<td>55.12</td>
<td>1.800</td>
<td>45.72</td>
<td>1.451</td>
<td>36.86</td>
<td>0.333</td>
<td>8.46</td>
</tr>
</tbody>
</table>

### 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
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 Connector PCB Layouts – Socket Connectors

Patterns shown are for connector mounting side of PC board.

- 9 SOCKET
- 15 SOCKET
- 21 SOCKET
- 25 SOCKET
- 31 SOCKET
- 37 SOCKET
- 51 SOCKET
- 100 SOCKET