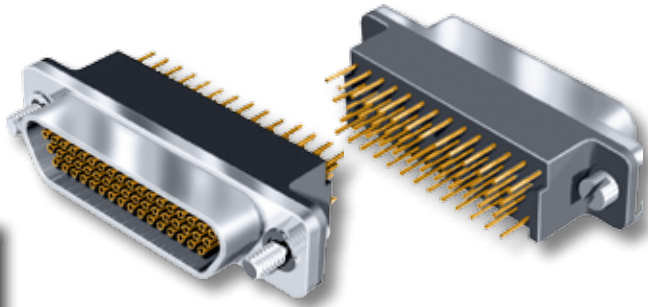




GMR7580C Vertical Mount Micro-D Connectors Compact Flange



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. Glennair'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

| Series | Number of Contacts | Contact Type | Tail Length In. (mm.) | Shell Plating Finish | Hardware | Gold-Plated Terminal Mod Code |
|---|--------------------|--------------------|--------------------------------------|---|--|---|
| GMR7580C Micro-D Metal Shell, Vertical Mount PCB, Compact | 9 | P Pin | 1 – .109" (2.76) | A – Cadmium | B P M M1 S S1 L K F R | These connectors are solder-dipped in 63/37 tin-lead solder. To delete the solder dip and change to gold-plated terminals, add code 513 |
| | 15 | | 2 – .150" (3.81) | B – Nickel | | |
| | 21 | | 3 – .190" (4.83) | C – Alchrome | | |
| | 25 | S Socket | 4 – .250" (6.35) | D – Black Anodize | | |
| | 31 | | 5 – Staggered Tail Length | E – Gold | | |
| | 37 | | Length in Inches ± .015 (0.38) | Stainless Steel Shell F – Passivated | | |
| | 51 | | | | | |
| | 100 | | | | | |
| Sample Part Number | | | | | | |
| GMR7580C | - 31 | S | 2 | B | S1 | |

MICRO-D 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 |

GMR7580C Vertical Mount Micro-D Connectors Compact Flange



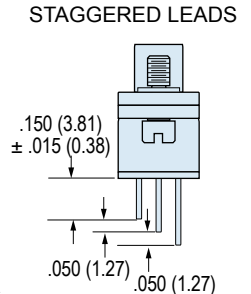
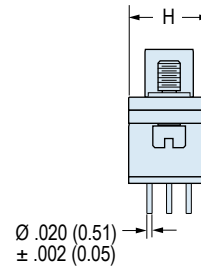
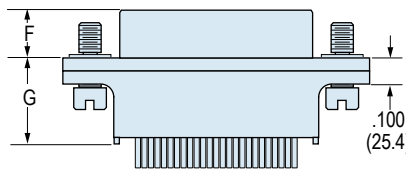
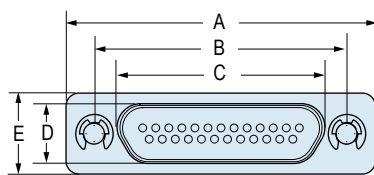
Micro-D
PCB

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 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) |
| Interfacial Seal | Fluorosilicone Rubber, Blue |
| Pin Contact | Copper Alloy, Gold over Nickel Plating |
| Socket Contact | Copper Alloy, Gold Over Nickel Plating |
| PCB Terminals | Tin Plated Copper Alloy (100% Tin) |
| Hardware | 300 Series Stainless Steel |
| Encapsulant | Epoxy Resin Hysol EE4215 |



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

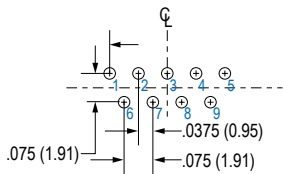
SIZES 9 THRU 51 THREAD SIZE IS #2-56 UNC
SIZE 100 THREAD SIZE IS #4-40

GMR7580C CONNECTOR DIMENSIONS

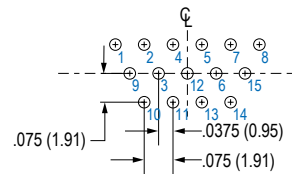
| Layout | A Max. | | B | | C Max. | | D Max. | | E Max. | | F | | G Max. | | H Max. | |
|--------|--------|-------|--------------|--------------|--------|-------|--------|-------|--------|-------|--------------|--------------|--------|-------|--------|-------|
| | In. | mm. | In. ±.005 | mm. ±0.13 | 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 | .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 | .394 | 10.00 | .394 | 10.00 | .195 | 4.95 | .430 | 10.92 | .470 | 11.94 |

GMR7580C CONNECTOR PCB LAYOUTS – PIN CONNECTORS

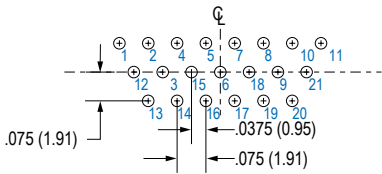
Patterns shown are for connector mounting side of PC board.



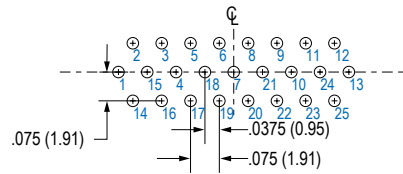
9 PIN



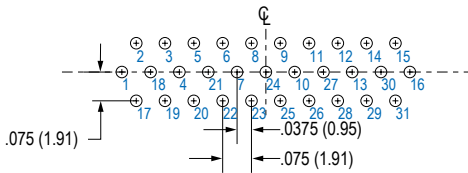
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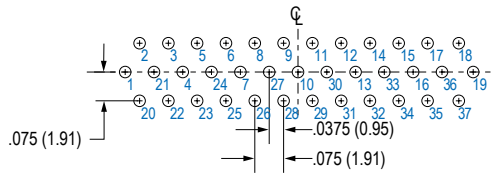
21 PIN



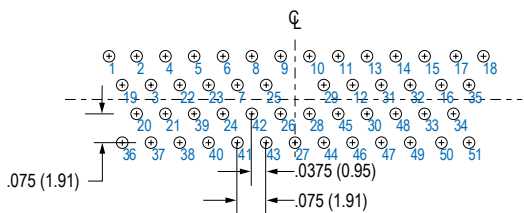
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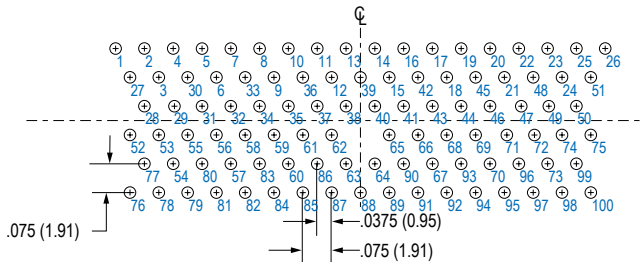
31 PIN



37 PIN



51 PIN



100 PIN

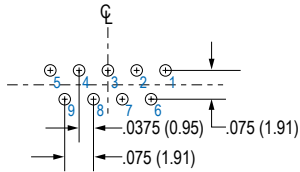
GMR7580C Vertical Mount Micro-D Connectors Compact Flange



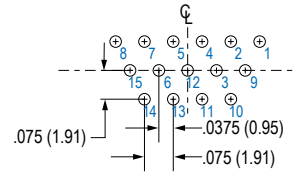
Micro-D
PCB

GMR7580C CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS

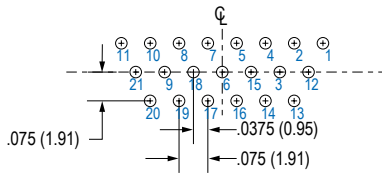
Patterns shown are for connector mounting side of PC board.



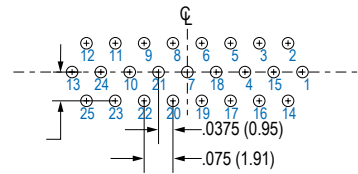
9 SOCKET



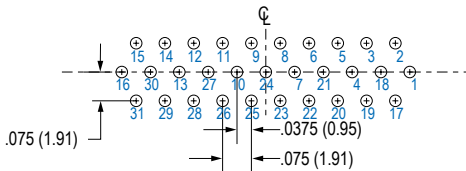
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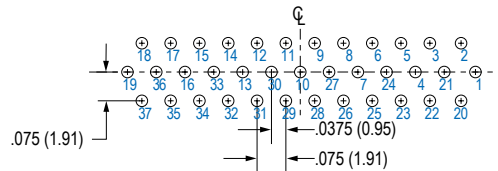
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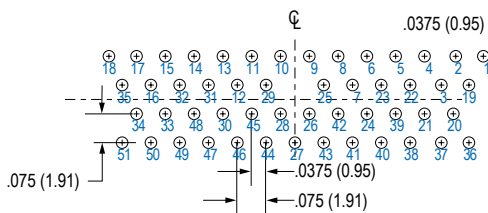
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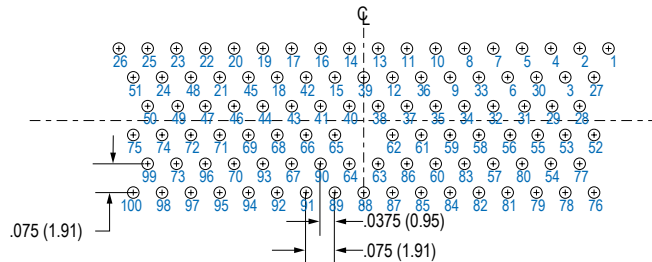
31 SOCKET



37 SOCKET



51 SOCKET



100 SOCKET