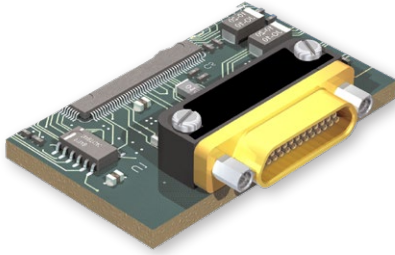




Micro-D GMR7590 Right Angle Mount Printed Circuit Board Connectors



Save Space On Your Circuit Board – These Micro-D connectors feature .075 X .075 inch terminal spacing. Glenair's GMR7590 offers size and weight savings compared to traditional .100" pitch connectors.

High Performance – GMR7590 connectors meet the performance requirements of MIL-DTL-83513. Gold plated TwistPin contacts assure best electrical and mechanical performance.

How To Order GMR7590 Connectors

| | GMR7590 | -31 | S | 2 | B | SU | -513 | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-----------------|---|---|---|----|------|------------|----------------|-----------------|----|----|-------------|----|----|-------------|----|----|-------------|----|----|-------------|----|----|-------------|
| Series | GMR7590 Right Angle Mount Connector | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Layout | 9, 15, 21, 25, 31, 37, 51, 100, | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 A - Cadmium B - Nickel C - Allochrome D - Black Anodize E - Gold | | | Stainless Steel Shell F - Passivated | | | | | | | | | | | | | | | | | | | | | |
| Jackpost Options | NN - No Jackpost, 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 SN - Short Jackpost, No Threaded Insert (See Table I) | | | Rear Panel Mount Jackposts and Threaded Inserts <table border="1"> <thead> <tr> <th>UN Threads</th> <th>Metric Threads</th> <th>Panel Thickness</th> </tr> </thead> <tbody> <tr> <td>TU</td> <td>TM</td> <td>.094" (2.4)</td> </tr> <tr> <td>VU</td> <td>VM</td> <td>.062" (1.6)</td> </tr> <tr> <td>WU</td> <td>WM</td> <td>.047" (1.2)</td> </tr> <tr> <td>XU</td> <td>XM</td> <td>.031" (0.8)</td> </tr> <tr> <td>YU</td> <td>YM</td> <td>.023" (0.6)</td> </tr> </tbody> </table> | | | | 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) |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |

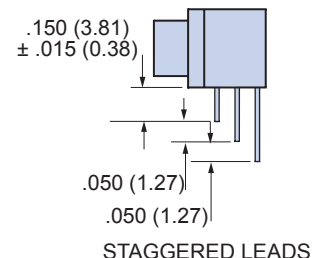
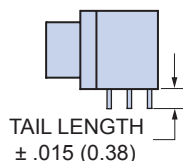
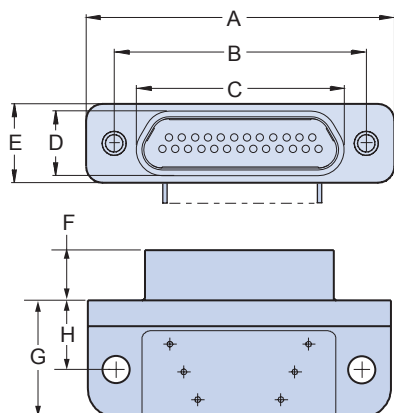
Table I: Jackpost Options

| NN | NU, NM | SN | SU, SM | TU, VU, WU, XU, YU TM, VM, WM, XM, YM |
|--|---|---|-------------------------------|--|
| | | | | |
| No Jackpost, No Threaded Insert In PCB Mtng Hole | No Jackpost, Threaded Insert In PCB Mounting Hole | Jackpost Installed, No Threaded Insert in PCB Mounting Hole | Jackpost With Threaded Insert | Jackpost for Rear Panel Mounting |

Micro-D GMR7590 Right Angle Mount Printed Circuit Board Connectors



Table II: Dimensions



SIZES 9 THRU 51 MOUNTING HOLE IS .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 | |
|--------|--------|-------|--------------|--------------|--------|-------|--------|------|--------|-------|--------------|--------------|--------|-------|--------------|--------------|
| | In. | mm. | In. ±.005 | mm. ±0.13 | In. | mm. | In. | mm. | In. | mm. | In. ±.003 | mm. ±0.08 | In. | mm. | In. ±.010 | mm. ±0.25 |
| 9P | .785 | 19.94 | .565 | 14.35 | .335 | 8.51 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 9S | .785 | 19.94 | .565 | 14.35 | .400 | 10.16 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 15P | .935 | 23.75 | .715 | 18.16 | .485 | 12.32 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 15S | .935 | 23.75 | .715 | 18.16 | .550 | 13.97 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 21P | 1.085 | 27.56 | .865 | 21.97 | .635 | 16.13 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 21S | 1.085 | 27.56 | .865 | 21.97 | .700 | 17.78 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 25P | 1.185 | 30.01 | .965 | 24.51 | .735 | 18.67 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 25S | 1.185 | 30.01 | .965 | 24.51 | .800 | 20.32 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 31P | 1.335 | 33.91 | 1.115 | 28.32 | .885 | 22.48 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 31S | 1.335 | 33.91 | 1.115 | 28.32 | .950 | 24.13 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 37P | 1.485 | 37.72 | 1.265 | 32.13 | 1.035 | 26.29 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .400 | 10.16 | .250 | 6.35 |
| 37S | 1.485 | 37.72 | 1.265 | 32.13 | 1.100 | 27.94 | .251 | 6.38 | .310 | 7.87 | .195 | 4.95 | .400 | 10.16 | .250 | 6.35 |
| 51P | 1.435 | 36.45 | 1.215 | 30.86 | .985 | 25.02 | .228 | 5.79 | .351 | 8.92 | .183 | 4.65 | .490 | 12.45 | .300 | 7.62 |
| 51S | 1.435 | 36.45 | 1.215 | 30.86 | 1.050 | 26.67 | .296 | 7.52 | .351 | 8.92 | .195 | 4.95 | .490 | 12.45 | .300 | 7.62 |
| 100P | 2.170 | 55.12 | 1.800 | 45.72 | 1.384 | 35.15 | .271 | 6.88 | .394 | 10.00 | .183 | 4.65 | .660 | 16.76 | .400 | 10.16 |
| 100S | 2.170 | 55.12 | 1.800 | 45.72 | 1.451 | 36.86 | .333 | 8.46 | .394 | 10.00 | .195 | 4.95 | .660 | 16.76 | .400 | 10.16 |

| 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) |

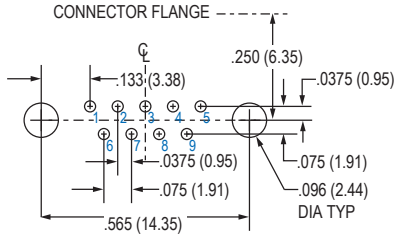
| Materials and Finishes | |
|------------------------|---|
| Connector Shell | Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options |
| Insulator, Tray | Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS) |
| Interfacial Seal | Fluorosilicone Rubber, 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 |



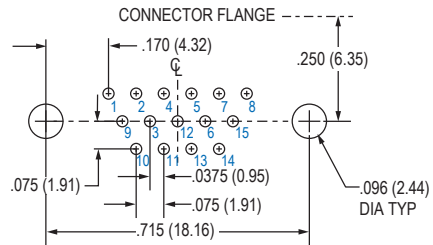
Micro-D GMR7590 Right Angle Mount Printed Circuit Board Connectors

GMR7590 Connector PCB Layouts – Pin Connectors

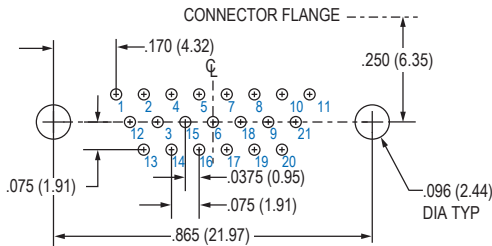
Patterns shown are for connector mounting side of PC board.



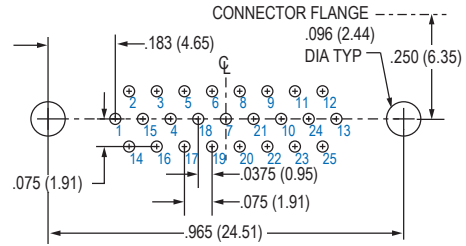
9 PIN



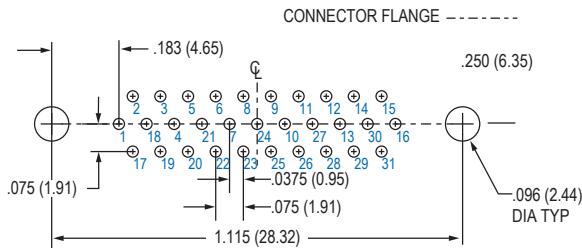
15 PIN



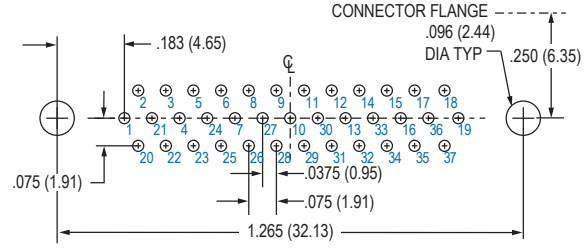
21 PIN



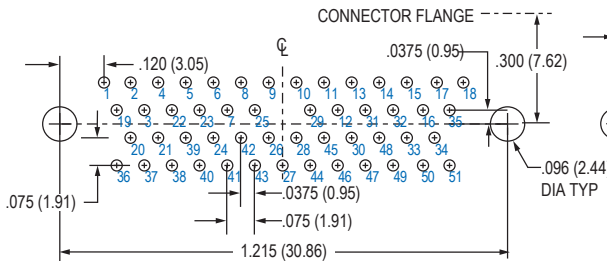
25 PIN



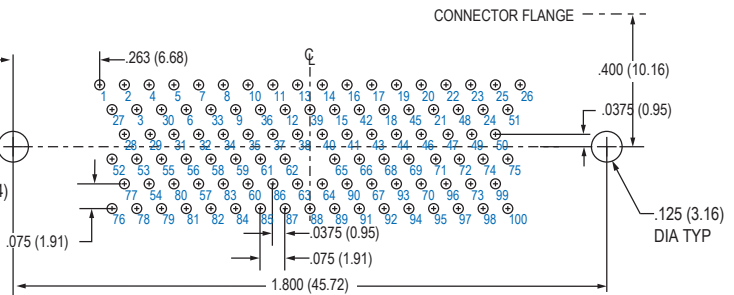
31 PIN



37 PIN



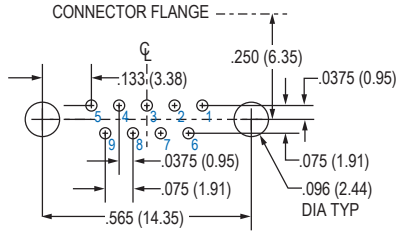
51 PIN



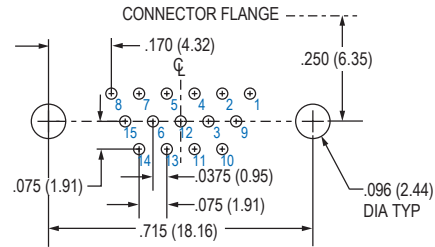
100 PIN

GMR7590 Connector PCB Layouts – Socket Connectors

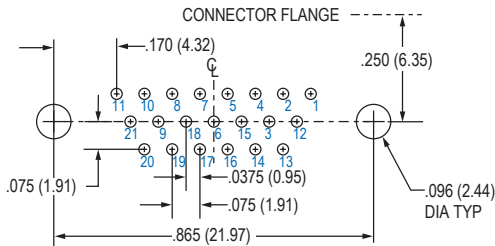
Patterns shown are for connector mounting side of PC board.



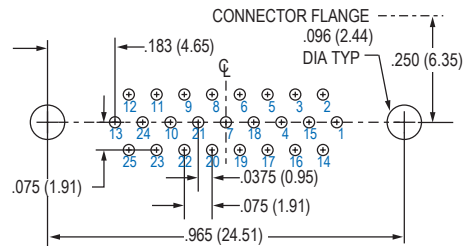
9 SOCKET



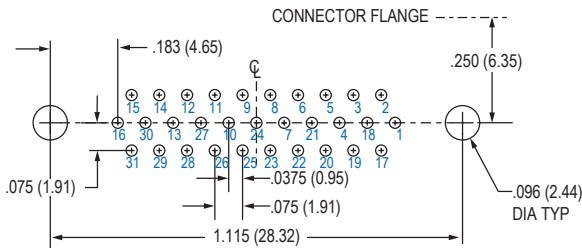
15 SOCKET



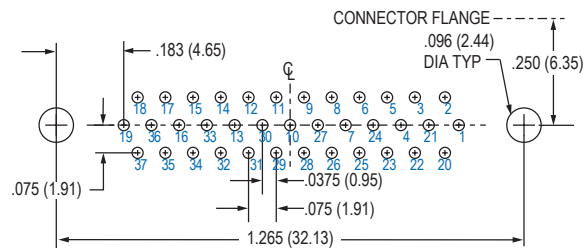
21 SOCKET



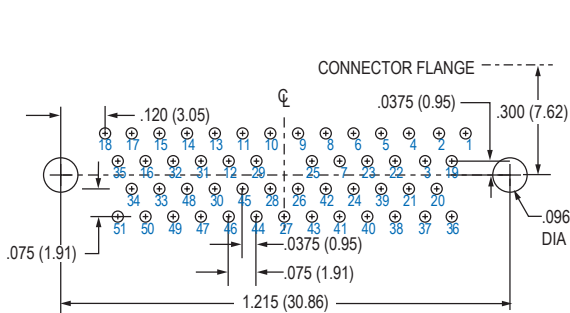
25 SOCKET



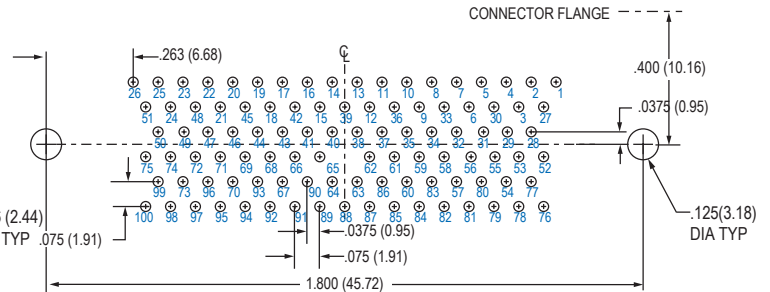
31 SOCKET



37 SOCKET



51 SOCKET



100 SOCKET

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [D-Sub Micro-D Connectors](#) category:

Click to view products by [Glenair](#) manufacturer:

Other Similar products are found below :

[89076GBEPR](#) [65-1920-15](#) [M83513/03-G05N](#) [M83513/03-G12N](#) [M83513/04-D11C](#) [M83513/04-G04C](#) [M83513/22-D01NP](#) [664020C06F060](#)
[6R2004A30F015](#) [703006A13F060](#) [704002A03F200](#) [705001A13F120](#) [71-147714-19P](#) [7-1532020-5](#) [748567-1-P](#) [MDB1-31SH003](#) [MDB1-](#)
[9SH001](#) [MDM-100PH003L](#) [MDM100PH006B](#) [MDM100SH006B](#) [MDM-15PCBRM7T](#) [MDM15PH006LA174](#) [MDM-15PH006P-A174](#)
[MDM-15SH001L](#) [MDM-15SH003A](#) [MDM-15SH004B](#) [MDM-15SH006A-A174](#) [MDM-21PH001F](#) [MDM-21PH003P](#) [MDM21SH003BA174](#)
[MDM21SH003P](#) [MDM-21SH003P-A174](#) [MDM-25PH005K](#) [MDM-25PHW01F-A174](#) [MDM-25SH001F-A174](#) [MDM-25SH003F](#) [MDM-](#)
[25SH003K](#) [MDM-25SH006K](#) [MDM-31PH006B](#) [MDM31SH001F](#) [MDM-31SH003F](#) [MDM-31SH006F-A174](#) [MDM-31SH006P-A174](#)
[MDM-31SH011F-A174](#) [MDM-31SH011P-A174](#) [MDM-37PH006L-A174](#) [MDM-37PH048M5-A174](#) [MDM-37SCBRP-A174](#) [MDM-](#)
[37SH003K](#) [MDM-51PH003B-A174](#)