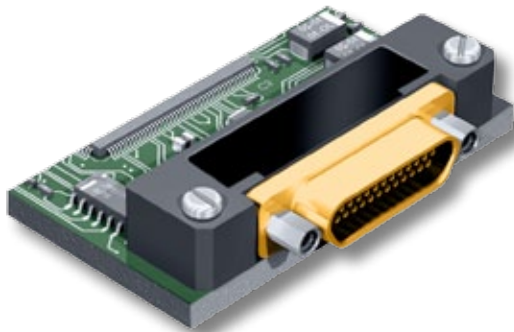




## Micro-D Metal Shell Printed Circuit Board Connectors BR Style Right Angle Thru-Hole



**High Performance**—These connectors feature gold-plated TwistPin contacts for best performance. PC tails are .020 inch diameter. Specify nickel-plated shells or cadmium plated shells for best availability.

**Solder-Dipped**—Terminals are coated with SN63/Pb37 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

**Front Panel or Rear Mountable**—Can be installed through panels up to .125 inch thick. Specify rear panel mount jackposts.

### HOW TO ORDER BR STYLE PCB MICRO-D CONNECTORS

| Series             | Shell Material and Finish | Insulator Material                                     | Contact Layout | Contact Type | Termination Type            | Jackpost Option                   | Threaded Insert Option              | Terminal Length In Inches | Gold-Plated Terminal Mod Code                                              |
|--------------------|---------------------------|--------------------------------------------------------|----------------|--------------|-----------------------------|-----------------------------------|-------------------------------------|---------------------------|----------------------------------------------------------------------------|
| MWDM               | Aluminum Shell            | L – LCP<br><br>30% Glass-Filled Liquid Crystal Polymer | 9              | P            | BR<br><br>Board Right Angle | (Omit for None)                   | T                                   | .080                      | These connectors are solder-dipped in 63/37 tin-lead solder.               |
|                    | 1 – Cadmium               |                                                        | 15             | Pin          |                             | P – Jackpost                      |                                     | .110                      |                                                                            |
|                    | 2 – Nickel                |                                                        | 21             |              |                             |                                   | Threaded Insert In Board Mount Hole | .125                      |                                                                            |
|                    | 4 – Black Anodize         |                                                        | 25             | S            |                             | Jackposts for Rear Panel Mounting |                                     | .140                      |                                                                            |
|                    | 5 – Gold                  |                                                        | 31             | Socket       |                             |                                   |                                     | .150                      |                                                                            |
|                    | 6 – Chem Film             |                                                        | 37             |              |                             |                                   |                                     | .172                      |                                                                            |
|                    |                           |                                                        | 51             |              |                             | R1 – .032" Panel                  | (Omit for Thru-Hole)                | .190                      | To delete the solder dip and change to gold-plated terminals, add code 513 |
|                    |                           |                                                        | 100            |              |                             | R2 – .047" Panel                  |                                     | .250                      |                                                                            |
|                    | Stainless Steel Shell     |                                                        |                |              |                             | R3 – .062" Panel                  | Length in Inches                    |                           |                                                                            |
|                    |                           |                                                        |                |              |                             | R4 – .093" Panel                  |                                     |                           |                                                                            |
|                    | 3 – Passivated            |                                                        |                |              |                             | R5 – .125" Panel                  |                                     | ± .015 (0.38)             |                                                                            |
| Sample Part Number |                           |                                                        |                |              |                             |                                   |                                     |                           |                                                                            |
| MWDM               | 1                         | L                                                      | – 15           | P            | BR                          | R3                                |                                     | – .110                    |                                                                            |

### MICRO-D JACKPOST OPTIONS

| No Designator                                                                                                                                                  | P                                                                                | R1 Thru R5                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <p>HEX NUT<br/>EPOXY FILL</p> <p><b>Thru-Hole</b><br/>For use with Glenair jackposts only. Order hardware separately. Install with threadlocking compound.</p> | <p><b>Standard Jackpost</b><br/>Factory installed, not intended for removal.</p> | <p>Panel</p> <p><b>Jackpost for Rear Panel Mounting</b><br/>Shipped loosely installed. Install with permanent threadlocking compound.</p> |

# Micro-D Metal Shell Printed Circuit Board Connectors BR Style Right Angle Thru-Hole



Micro-D  
PCB

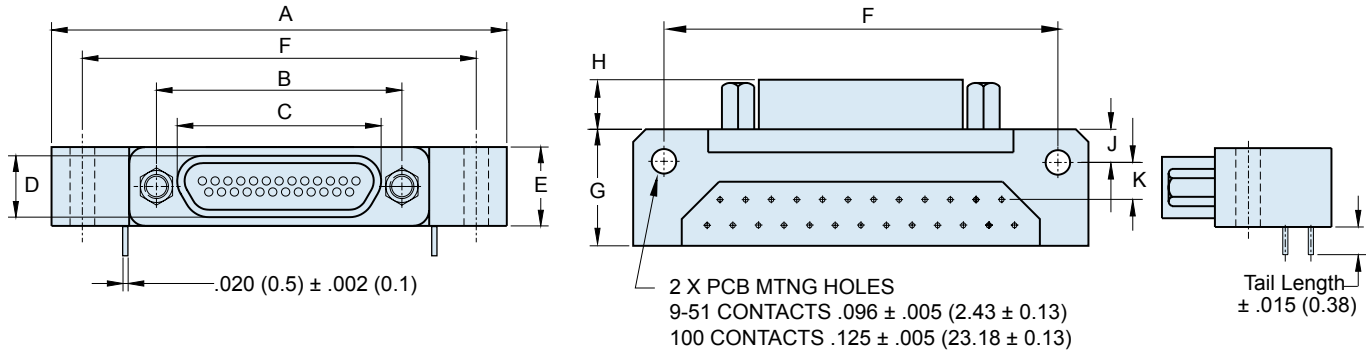
## PERFORMANCE SPECIFICATIONS

|                           |                               |
|---------------------------|-------------------------------|
| 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      | 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                                                                              |

C



## BR STYLE MICRO-D PCB CONNECTORS

| Layout | A Max. |       | B     |       | C Max. |       | D Max. |      | E Max. |       | F     |       | G Max. |       | H    |      | J    |      | K    |      |
|--------|--------|-------|-------|-------|--------|-------|--------|------|--------|-------|-------|-------|--------|-------|------|------|------|------|------|------|
|        | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.    | mm.  | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.  | mm.  | In.  | mm.  | In.  | mm.  |
| 9P     | 1.390  | 35.31 | .565  | 14.35 | .333   | 8.46  | .184   | 4.67 | .310   | 7.87  | 1.150 | 29.21 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 9S     | 1.390  | 35.31 | .565  | 14.35 | .400   | 10.16 | .250   | 6.35 | .310   | 7.87  | 1.150 | 29.21 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 15P    | 1.540  | 39.12 | .715  | 18.16 | .483   | 12.27 | .184   | 4.67 | .310   | 7.87  | 1.300 | 33.02 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 15S    | 1.540  | 39.12 | .715  | 18.16 | .551   | 14.00 | .250   | 6.35 | .310   | 7.87  | 1.300 | 33.02 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 21P    | 1.690  | 42.93 | .865  | 21.97 | .633   | 16.08 | .184   | 4.67 | .310   | 7.87  | 1.450 | 36.83 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 21S    | 1.690  | 42.93 | .865  | 21.97 | .701   | 17.81 | .250   | 6.35 | .310   | 7.87  | 1.450 | 36.83 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 25P    | 1.790  | 45.47 | .965  | 24.51 | .733   | 18.62 | .184   | 4.67 | .310   | 7.87  | 1.550 | 39.37 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 25S    | 1.790  | 45.47 | .965  | 24.51 | .801   | 20.35 | .250   | 6.35 | .310   | 7.87  | 1.550 | 39.37 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 31P    | 2.040  | 51.82 | 1.115 | 28.32 | .883   | 22.43 | .184   | 4.67 | .310   | 7.87  | 1.800 | 45.72 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 31S    | 2.040  | 51.82 | 1.115 | 28.32 | .951   | 24.16 | .250   | 6.35 | .310   | 7.87  | 1.800 | 45.72 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 37P    | 2.340  | 59.44 | 1.265 | 32.13 | 1.033  | 26.24 | .184   | 4.67 | .310   | 7.87  | 2.100 | 53.34 | .465   | 11.81 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 37S    | 2.340  | 59.44 | 1.265 | 32.13 | 1.101  | 27.96 | .250   | 6.35 | .310   | 7.87  | 2.100 | 53.34 | .465   | 11.81 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 51P    | 1.875  | 47.63 | 1.215 | 30.86 | .983   | 24.97 | .228   | 5.79 | .351   | 8.92  | 1.600 | 40.64 | .565   | 14.35 | .183 | 4.65 | .125 | 3.18 | .150 | 3.81 |
| 51S    | 1.875  | 47.63 | 1.215 | 30.86 | 1.051  | 26.70 | .296   | 7.52 | .351   | 8.92  | 1.600 | 40.64 | .565   | 14.35 | .195 | 4.95 | .125 | 3.18 | .150 | 3.81 |
| 100P   | 2.780  | 70.60 | 1.800 | 45.72 | 1.383  | 35.13 | .270   | 6.86 | .394   | 10.01 | 2.500 | 63.50 | .765   | 19.43 | .183 | 4.65 | .225 | 5.72 | .150 | 3.81 |
| 100S   | 2.780  | 70.60 | 1.800 | 45.72 | 1.451  | 36.86 | .333   | 8.46 | .394   | 10.01 | 2.500 | 63.50 | .765   | 19.43 | .195 | 4.95 | .225 | 5.72 | .150 | 3.81 |

## MICRO-D BR BOARD MOUNT CONNECTOR PCB LAYOUTS – PIN CONNECTORS

Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



**9 PIN MWDM-9PBR**



**51 PIN MWDM-51PBR**



**15 PIN MWDM-15PBR**



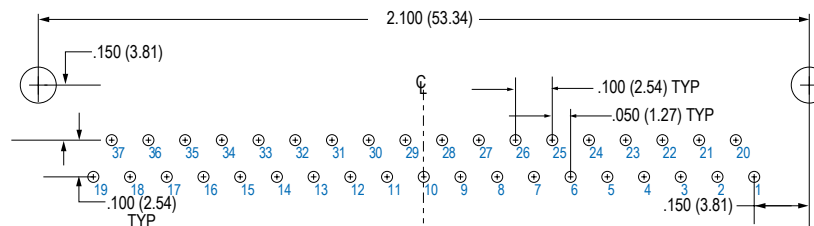
**31 PIN MWDM-31PBR**



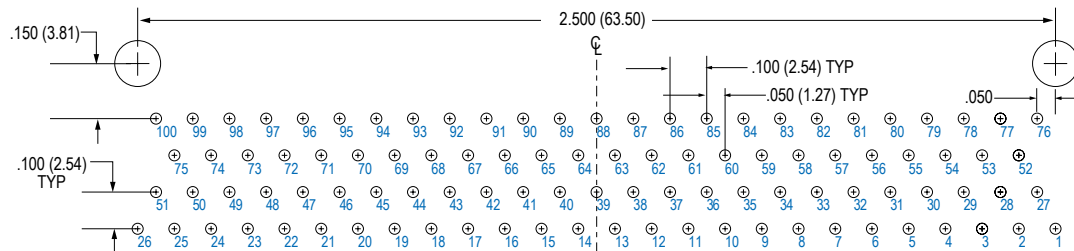
**21 PIN MWDM-21PBR**



**25 PIN MWDM-25PBR**



**37 PIN MWDM-37PBR**



**100 PIN MWDM-100PBR**

# Micro-D Metal Shell Printed Circuit Board Connectors BR Style Right Angle Thru-Hole



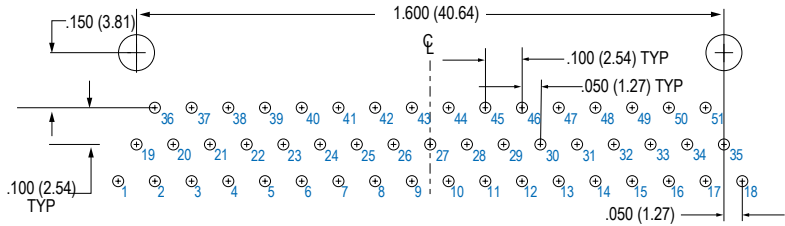
Micro-D  
PCB

## MICRO-D BR BOARD MOUNT CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS

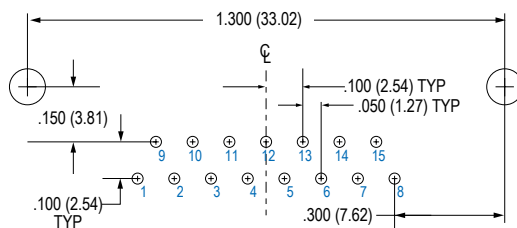
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



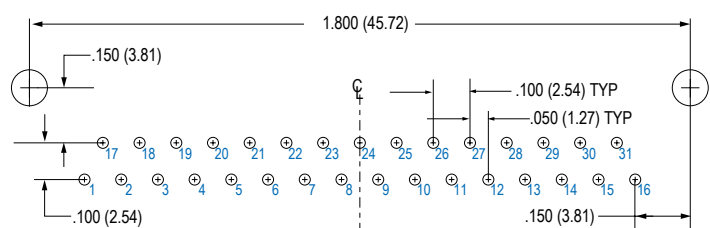
**9 SOCKET MWDM-9SBR**



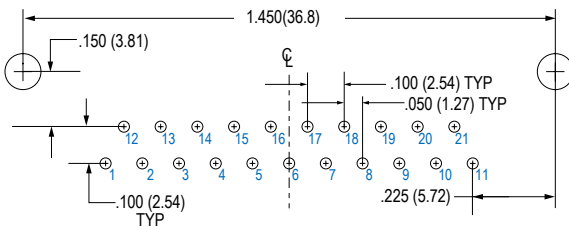
**51 SOCKET MWDM-51SBR**



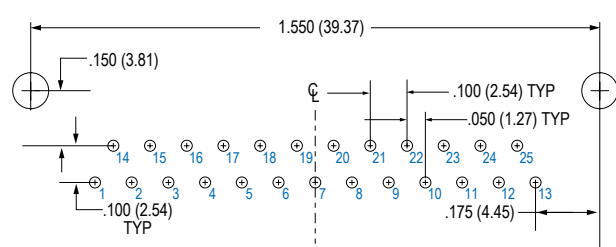
**15 SOCKET MWDM-15SBR**



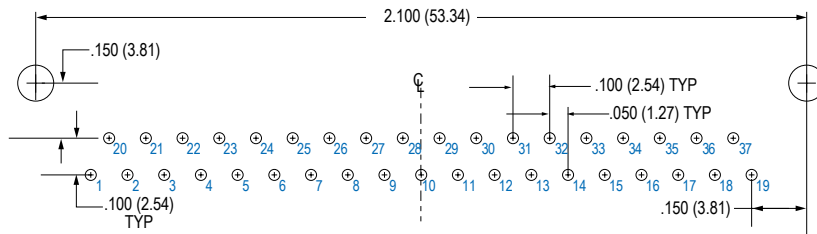
**31 SOCKET MWDM-31SBR**



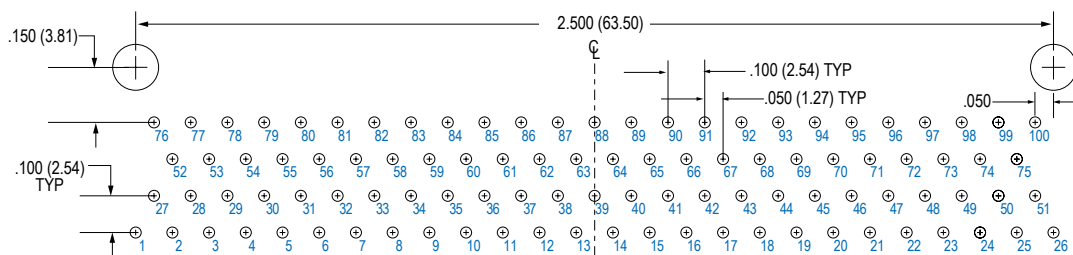
**21 SOCKET MWDM-21SBR**



**25 SOCKET MWDM-25SBR**



**37 SOCKET MWDM-37SBR**



**100 SOCKET MWDM-100SBR**

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