# Micro-D MWDM-BR
# Right Angle Thru-Hole
## Printed Circuit Board Connectors





**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.

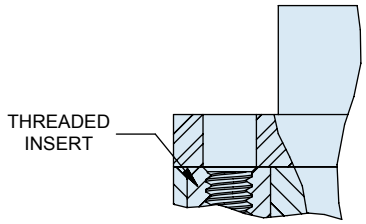
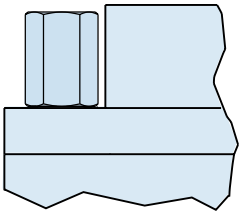
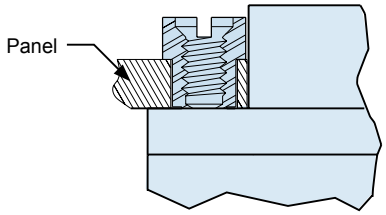
**Solder-Dipped** – Terminals are coated with Sn60/Pb40 tin-lead solder for best solderability. Optional gold-plated terminals are available for RoHS compliance.

**Rear Mountable** – Can be installed through panels up to .125 inch thick. Specify rear panel mount jackposts.

**How To Order Micro-D BR Style Board Mount Connectors**

| Sample Part Number | MWDM | 2 | L | -15 | P | BR | R3 | T | -.110 | 513 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Series** | **MWDM** Glenair Micro-D | | | | | | | | | |
| **Shell Material and Finish** | Aluminum Shell: **1** - Cadmium **2** - Nickel **4** - Black Anodize **5** - Gold **6** - Chem Film; Stainless Steel Shell: **3** - Passivated | | | | | | | | | |
| **Insulator Material** | **L** - LCP or PPS<br>LCP - 30% Glass-filled liquid crystal polymer<br>PPS - 40% Glass-filled polyphenylene sulfide | | | | | | | | | |
| **Contact Layout** | **9**, **15**, **21**, **25**, **31**, **37**, **51**, **100** (See Table II) | | | | | | | | | |
| **Contact Type** | **P** - Pin **S** - Socket | | | | | | | | | |
| **Termination Type** | **BR** - Board Right Angle | | | | | | | | | |
| **Jackpost Option** | **Omit** for None **P** - Jackpost (See Table I)<br>Jackposts for Rear Panel Mounting: **R1** - .032" Panel **R2** - .047" Panel **R3** - .062" Panel **R4** - .093" Panel **R5** - .125" Panel **R6** - .080" Panel | | | | | | | | | |
| **Threaded Insert Option** | **T** - Threaded Insert In Board Mount Hole Omit - for Thru-Hole | | | | | | | | | |
| **Terminal Length (Inches)** | **.080**, **.110**, **.125**, **.140**, **.150**, **.172**, **.190**, **.250** Length in Inches ± .015 (0.38) (See Table II) | | | | | | | | | |
| **Gold-Plated Terminal Mod Code** | These connectors are solder-dipped in 60/40 tin-lead solder.<br>To delete the solder dip and change to gold-plated terminals, add code **513** | | | | | | | | | |

**Table I: Jackpost Options**

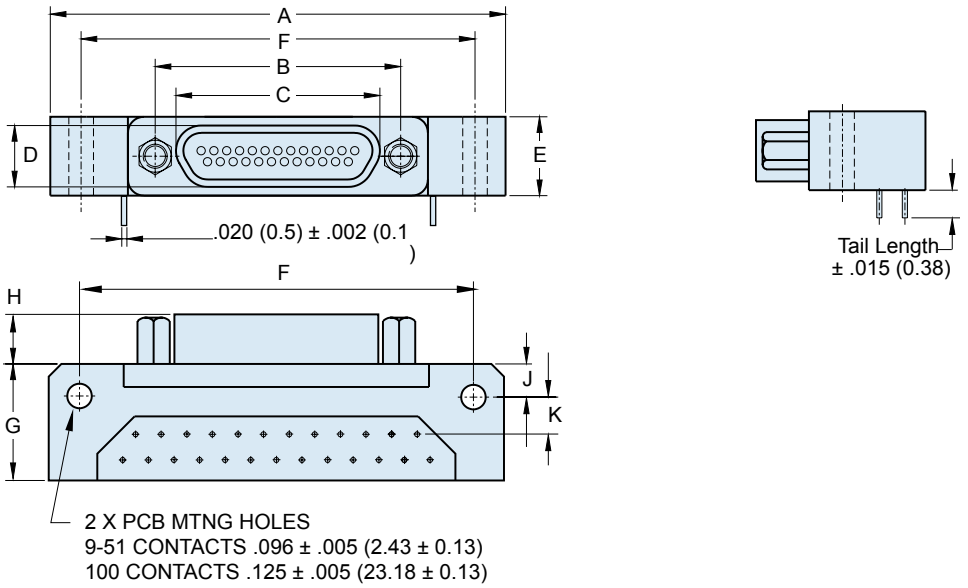
| No Designator | P | R1 Thru R6 |
|---|---|---|
|  |  |  |
| **Thru-Hole**<br>For use with Glenair jackposts only. Order hardware separately. Install with threadlocking compound. | **Standard Jackpost**<br>Factory installed, not intended for removal. | **Jackpost for Rear Panel Mounting**<br>Shipped loosely installed. Install with permanent threadlocking compund. |

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# Right Angle Thru-Hole
## Printed Circuit Board Connectors

## Table II: Dimensions




| Layout | A Max. | | B | | C Max. | | D Max. | | E Max. | | F | | G Max. | | H | | J | | K | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. ±.003 | mm. ± 0.08 | In. | mm. | In. | mm. | In. | mm. | In. ±.007 | mm. ± 0.18 | In. | mm. | In. ±.003 | mm. ±0.08 | In. ±.015 | mm. ±0.38 | In. ±.010 | mm. ±0.25 |
| 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 |

| 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) |

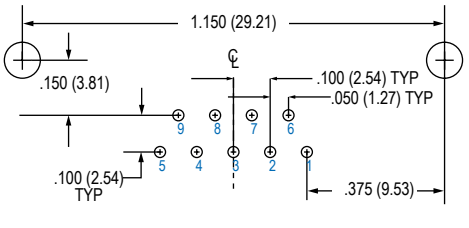
| Materials and Finishes | |
|---|---|
| Connector Shell | Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options |
| Insulator, Tray | Liquid Crystal Polymer (LCP)/ Polyphenylene Sulfide (PPS) |
| Interfacial Seal | Fluorosilicone Rubber, Blue |
| Pin Contact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

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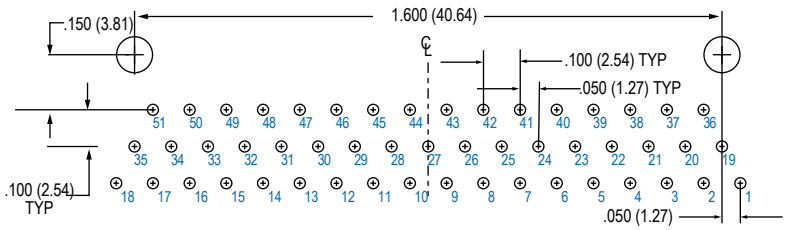

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# MICRO-D BR Board Mount Connector PCB Layouts – Pin Connectors

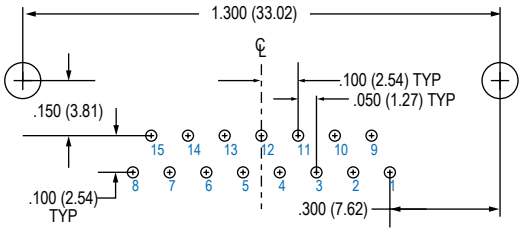
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



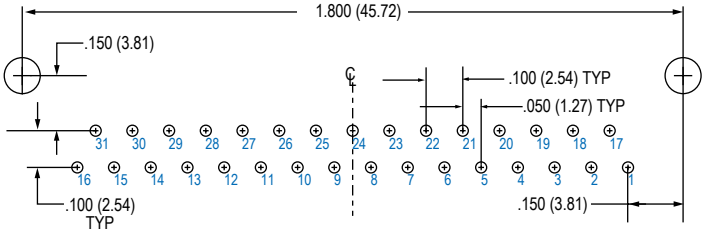

## 9 PIN



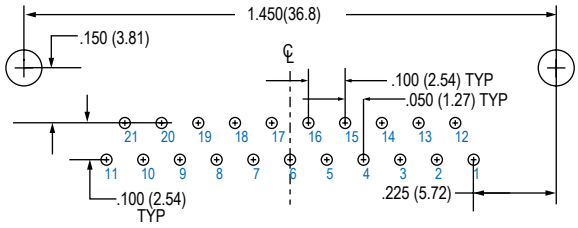

## 51 PIN



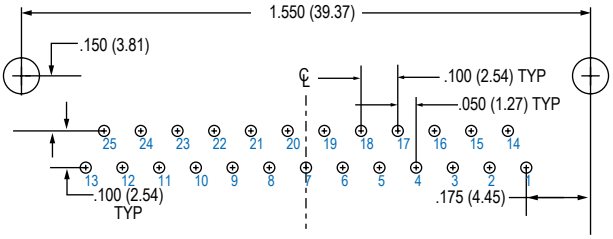

## 15 PIN



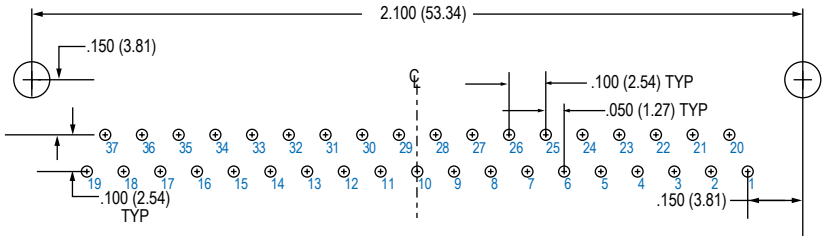

## 31 PIN



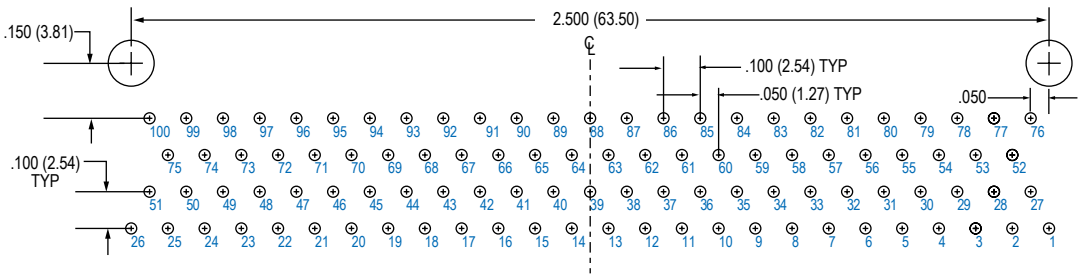

## 21 PIN




## 25 PIN




## 37 PIN



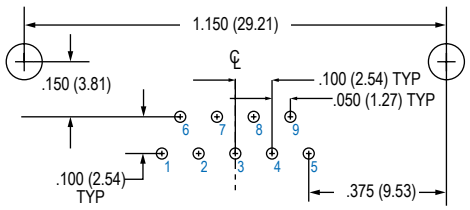

## 100 PIN

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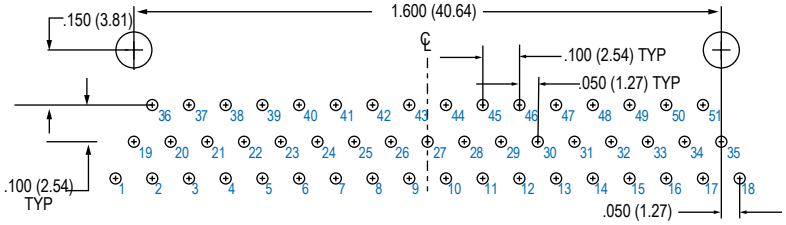
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# MICRO-D BR Board Mount Connector PCB Layouts – Socket Connectors

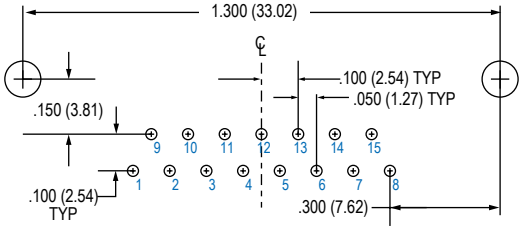
Patterns shown are for connector mounting side of PC board. 9 Thru 51 Contacts .096 (2.44) Diameter Mounting Holes, 100 Pin .125 (3.18) Diameter



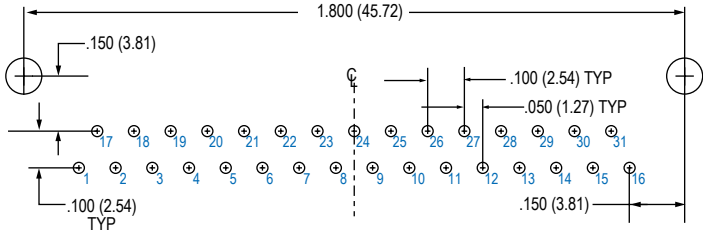

9 SOCKET



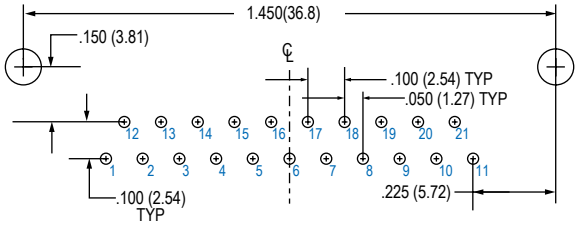

51 SOCKET



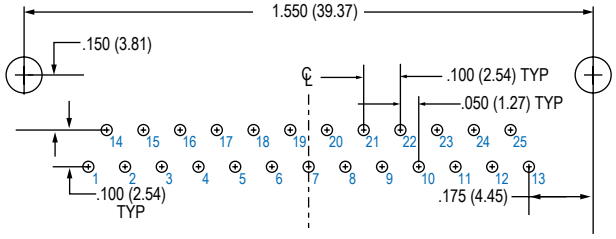

15 SOCKET



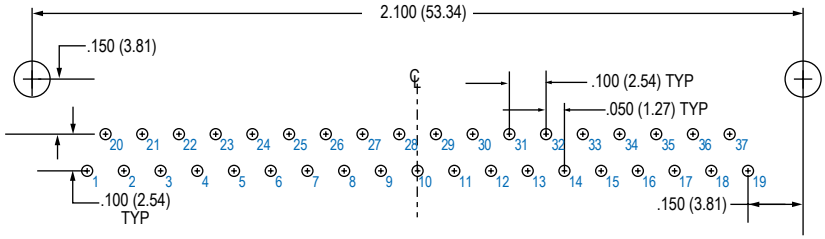

31 SOCKET



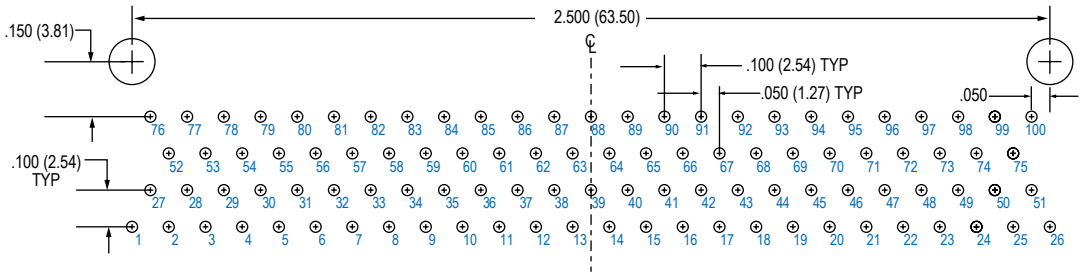

21 SOCKET




25 SOCKET




37 SOCKET




100 SOCKET

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