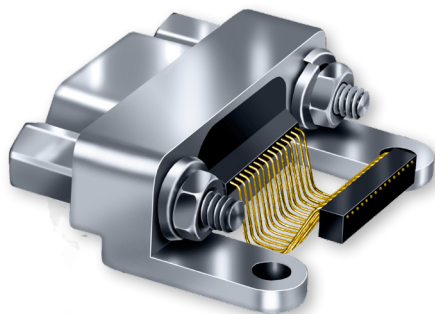




## Micro-D MWDM-SMR Surface Mount Right Angle Printed Circuit Board Connectors

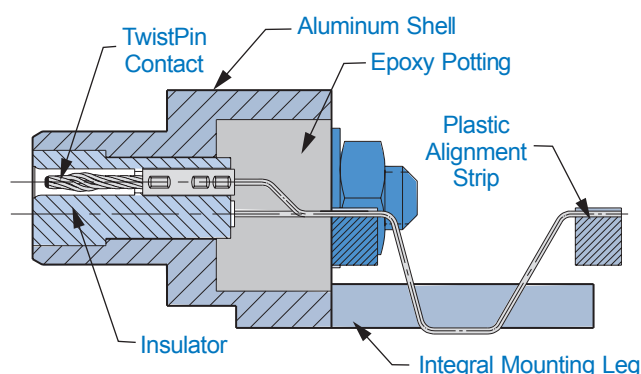


**Surface Mount Micro-D** – These connectors feature .025 inch terminal spacing and an alignment strip for accurate registration. The integral mounting legs provide a ground path.

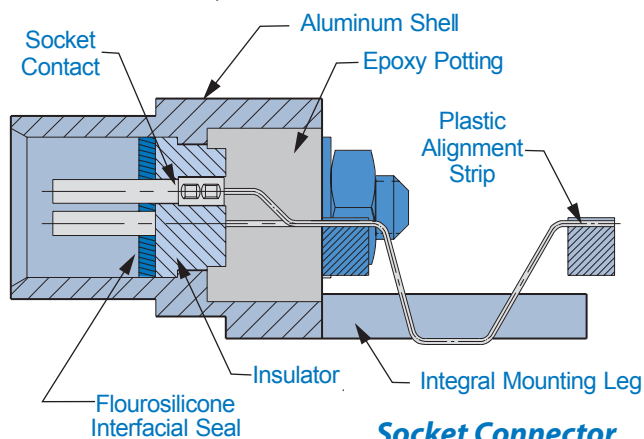
**9 To 51 Contacts** – These compact connectors are lighter and smaller than comparable thru-hole versions.

**Mil Spec Reliability** – Suitable for mission-critical requirements, These high performance connectors meet the requirements of MIL-DTL-83513.

**Solder Method** – When soldering the MWDM-SMR connector to the circuit board, consult Glenair factory for recommended method.



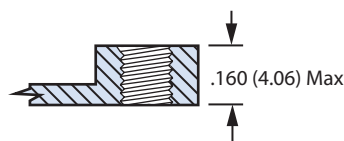
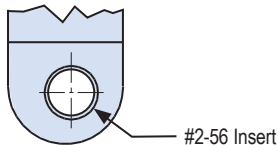
**Pin Connector**



**Socket Connector**

### How To Order Surface Mount PCB Micro-D Connectors

| Sample Part Number                    |                                                                                                                                                                                                                                                                                                 | MWDM | 2 | L | -37 | P | SMR | P | N |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|---|-----|---|-----|---|---|
| Series                                | MWDM Glenair Micro-D                                                                                                                                                                                                                                                                            |      |   |   |     |   |     |   |   |
| Shell Material and Finish             | Aluminum-Shell<br><b>1</b> - Cadmium <b>2</b> - Nickel    Stainless Steel Shell<br><b>4</b> - Black Anodize <b>5</b> - Gold <b>3</b> - Passivated<br><b>6</b> - Chem Film                                                                                                                       |      |   |   |     |   |     |   |   |
| Insulator Material                    | <b>L</b> - LCP or PPS<br><b>LCP</b> - 30% Glass-Filled Liquid Crystal Polymer/<br><b>PPS</b> - 40% Glass Filled Polyphenylene Sulfide                                                                                                                                                           |      |   |   |     |   |     |   |   |
| Contact Layout                        | <b>9, 15, 21, 25, 31, 37, 51-2</b> (See Table I)                                                                                                                                                                                                                                                |      |   |   |     |   |     |   |   |
| Contact Type                          | <b>P</b> - Pin <b>S</b> - Socket                                                                                                                                                                                                                                                                |      |   |   |     |   |     |   |   |
| Termination Type                      | <b>SMR</b> - Surface Mount Right Angle                                                                                                                                                                                                                                                          |      |   |   |     |   |     |   |   |
| Jackpost or Jackscrew Option          | <b>N</b> - Thru-Hole    Jackposts for Rear Panel Mounting<br><b>P</b> - Jackpost <b>R1</b> - .032" Panel <b>R4</b> - .093" Panel<br><b>M</b> - Jackscrew, Hex Head <b>R2</b> - .047" Panel <b>R5</b> - .125 Panel<br><b>T</b> - Threaded Insert <b>R3</b> - .062" Panel <b>R6</b> - .080" Panel |      |   |   |     |   |     |   |   |
| Board Mounting Threaded Insert Option | <b>N</b> - Thru-Hole, No Insert<br><b>T</b> - Threaded Inserts                                                                                                                                                                                                                                  |      |   |   |     |   |     |   |   |

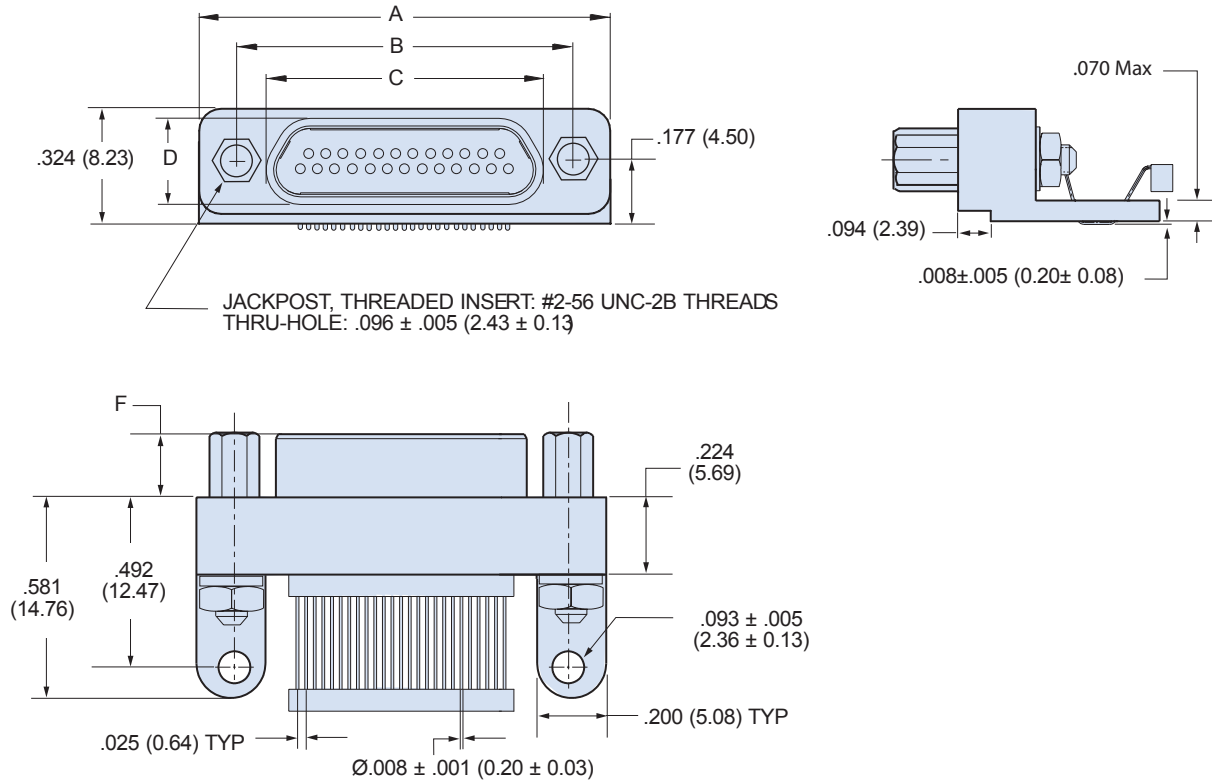


# Micro-D MWDM-SMR Surface Mount Right Angle Dimensions



Micro-D PCB

Table I: Dimensions



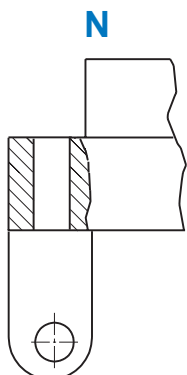
C

| Layout | A Max. |       | B            |               | C Max. |       | D Max. |      | F            |               |
|--------|--------|-------|--------------|---------------|--------|-------|--------|------|--------------|---------------|
|        | In.    | mm.   | In.<br>±.005 | mm.<br>± 0.13 | In.    | mm.   | In.    | mm.  | In.<br>±.003 | mm.<br>± 0.08 |
| 9P     | .785   | 19.94 | .565         | 14.35         | .333   | 8.46  | .184   | 4.67 | .183         | 4.65          |
| 9S     | .785   | 19.94 | .565         | 14.35         | .400   | 10.16 | .250   | 6.35 | .195         | 4.95          |
| 15P    | .935   | 23.75 | .715         | 18.16         | .483   | 12.27 | .184   | 4.67 | .183         | 4.65          |
| 15S    | .935   | 23.75 | .715         | 18.16         | .551   | 14.00 | .250   | 6.35 | .195         | 4.95          |
| 21P    | 1.085  | 27.56 | .865         | 21.97         | .633   | 16.08 | .184   | 4.67 | .183         | 4.65          |
| 21S    | 1.085  | 27.56 | .865         | 21.97         | .701   | 17.81 | .250   | 6.35 | .195         | 4.95          |
| 25P    | 1.185  | 30.10 | .965         | 24.51         | .733   | 18.62 | .184   | 4.67 | .183         | 4.65          |
| 25S    | 1.185  | 30.10 | .965         | 24.51         | .801   | 20.35 | .250   | 6.35 | .195         | 4.95          |
| 31P    | 1.335  | 33.91 | 1.115        | 28.32         | .883   | 22.43 | .184   | 4.67 | .183         | 4.65          |
| 31S    | 1.335  | 33.91 | 1.115        | 28.32         | .951   | 24.16 | .250   | 6.35 | .195         | 4.95          |
| 37P    | 1.485  | 37.72 | 1.265        | 32.13         | 1.033  | 26.24 | .184   | 4.67 | .183         | 4.65          |
| 37S    | 1.485  | 37.72 | 1.265        | 32.13         | 1.101  | 27.96 | .250   | 6.35 | .195         | 4.95          |
| 51-2P  | 1.840  | 46.74 | 1.615        | 41.02         | 1.375  | 34.93 | .184   | 4.67 | .183         | 4.65          |
| 51-2S  | 1.840  | 46.74 | 1.615        | 41.02         | 1.444  | 36.68 | .250   | 6.35 | .195         | 4.95          |

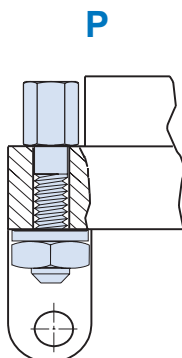


## Micro-D MWDM-SMR Surface Mount Right Angle Hardware

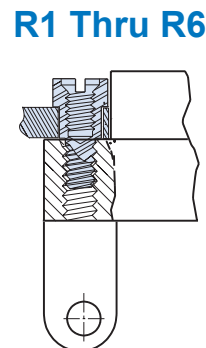
### Surface Mount MICRO-D Hardware Options



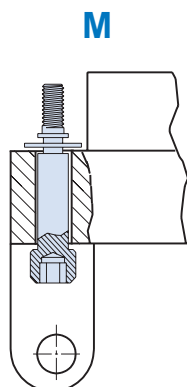
**Thru-Hole**  
No jackpost supplied



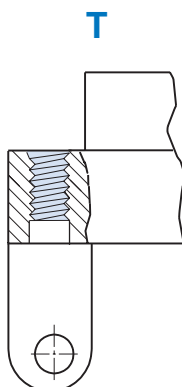
**Standard Jackpost**  
Factory installed with nut and lockwasher



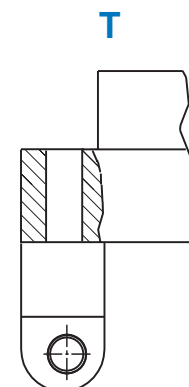
**Jackpost for Rear Panel Mounting**  
Shipped loosely installed. Install with permanent threadlocking compound.



**Jackscrew, Hex Drive**  
Attached with e-ring



**Threaded Insert**  
#2-56 Thread



**Board Mount Threaded Insert**

#### Performance Specifications

|                           |                               |
|---------------------------|-------------------------------|
| Current Rating            | 1 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. See Ordering Info for Plating Options |
| Insulators       | Liquid Crystal Polymer (LCP)/Polyphenylene Sulfide (PPS)   |
| Interfacial Seal | Fluorosilicone Rubber, Blue                                |
| Pin Contact      | Beryllium Copper 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                                   |

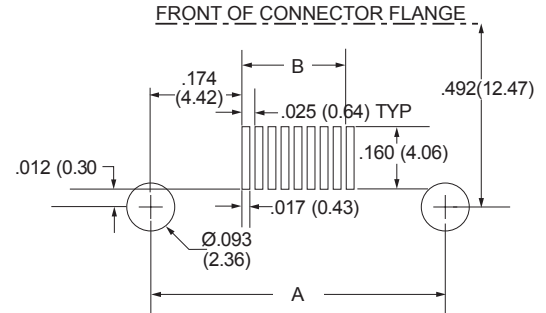
# Micro-D MWDM-SMR Surface Mount Right Angle PCB Layouts



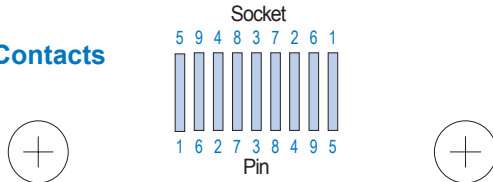
Micro-D PCB

## SMR Surface Mount Connector PCB Layouts

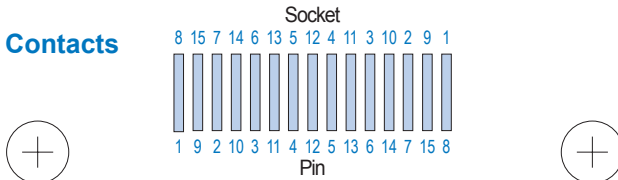
### Suggested Printed Circuit Board Layout



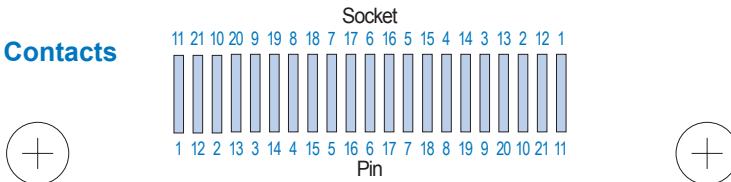
#### 9 Contacts



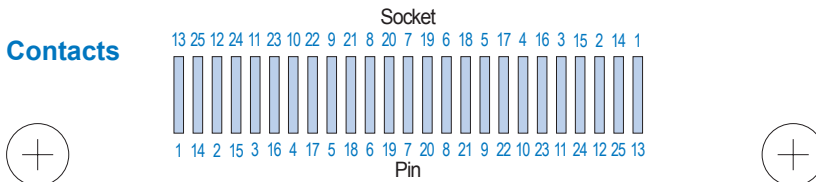
#### 15 Contacts



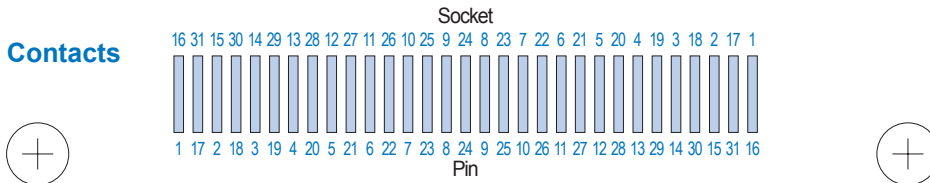
#### 21 Contacts



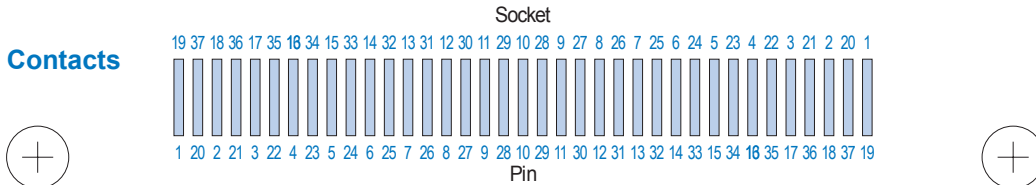
#### 25 Contacts



#### 31 Contacts



#### 37 Contacts



#### 51 Contacts

