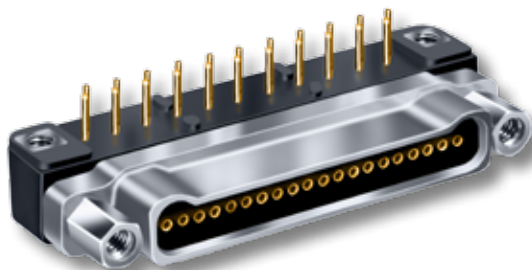


# GMSM Right Angle Single Row PCB Connector Low Profile Metal Shell Microminiature



Micro-D  
Single Row



**Low Profile GMSM Single Row Micro** Connectors offer mil spec design and performance in a smaller form factor for space savings. These GMSM connectors are shorter and occupy less board real estate than comparable two row Micro-D connectors.

**GMSM Connectors** feature gold-plated TwistPin contacts, machined aluminum shells, and are fully potted with epoxy. Choose from 4 to 35 contacts. Available in a variety of finishes, socket connectors are fitted with Fluorosilicone interfacial seals.

D

How To Order GMSM Right Angle PCB Connector

| How To Order GMSM Right Angle PCB Connector |                                             |                       |                                            |    |   |     |    |   |
|---------------------------------------------|---------------------------------------------|-----------------------|--------------------------------------------|----|---|-----|----|---|
| Sample Part Number                          |                                             | GMSM                  | 2-                                         | 10 | P | CBR | SU | 1 |
| Series                                      | GMSM                                        |                       |                                            |    |   |     |    |   |
| Shell Finish                                | Aluminum Shell                              | Stainless Steel Shell |                                            |    |   |     |    |   |
|                                             | 1 - Cadmium                                 | 3 - Passivated        |                                            |    |   |     |    |   |
|                                             | 2 - Nickel                                  |                       |                                            |    |   |     |    |   |
|                                             | 4 - Black Anodize                           |                       |                                            |    |   |     |    |   |
|                                             | 5 - Gold                                    |                       |                                            |    |   |     |    |   |
| Contact Layout                              | 6 - Chem Film                               |                       |                                            |    |   |     |    |   |
|                                             | 4, 6, 10, 15, 20, 25, 30, 35 (See Table II) |                       |                                            |    |   |     |    |   |
|                                             | P - Pin   S - Socket                        |                       |                                            |    |   |     |    |   |
|                                             | CBR - Right Angle PCB                       |                       |                                            |    |   |     |    |   |
|                                             |                                             |                       |                                            |    |   |     |    |   |
| Hardware Option                             | NU - Threaded Insert Only, No Jackposts     |                       | Rear Panel Jackposts with Threaded Inserts |    |   |     |    |   |
|                                             | SU - Jackpost and Threaded Insert           |                       | TU - 0.093" (2.4) Panel                    |    |   |     |    |   |
|                                             | (See Table I)                               |                       | VU - 0.062" (1.6) Panel                    |    |   |     |    |   |
|                                             |                                             |                       | WU - 0.047" (1.2) Panel                    |    |   |     |    |   |
|                                             |                                             |                       | XU - 0.031" (0.8) Panel                    |    |   |     |    |   |
| Tail Length                                 |                                             |                       | YU - 0.023" (0.6) Panel                    |    |   |     |    |   |
|                                             |                                             |                       |                                            |    |   |     |    |   |
|                                             |                                             |                       |                                            |    |   |     |    |   |
|                                             |                                             |                       |                                            |    |   |     |    |   |
|                                             |                                             |                       |                                            |    |   |     |    |   |

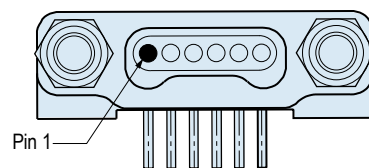
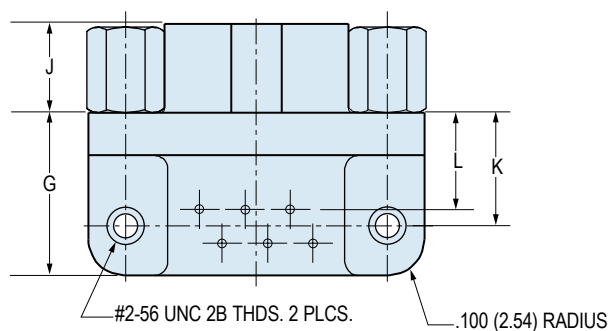
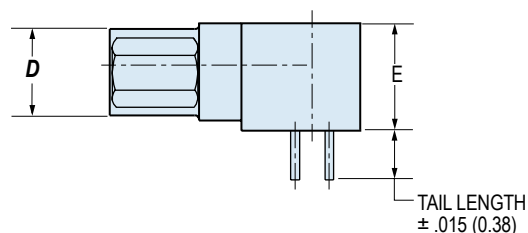
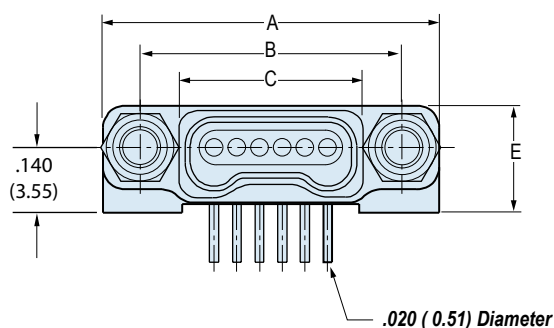
Table I: Mounting Hardware

| NU                                                   | SU                               | TU, VU, WU, XU, YU                  |
|------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                      |                                  |                                     |
| No Jackpost,<br>Threaded Insert In PCB Mounting Hole | Jackpost<br>With Threaded Insert | Jackpost<br>for Rear Panel Mounting |

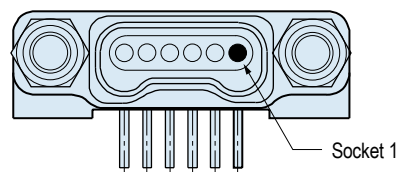


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Table II: Dimensions



Face View of Pin (Plug) Connector



Face View of Socket (Receptacle) Connector

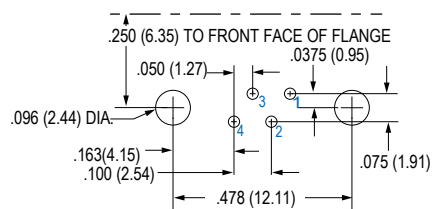
| Layout | A Max. |       | B            |               | C Max. |       | D Max. |      | E Max. |      | G Max. |      | J Max. |      | K            |               | L            |               |
|--------|--------|-------|--------------|---------------|--------|-------|--------|------|--------|------|--------|------|--------|------|--------------|---------------|--------------|---------------|
|        | In.    | mm.   | In.<br>±.003 | mm.<br>± 0.08 | In.    | mm.   | In.    | mm.  | In.    | mm.  | In.    | mm.  | In.    | mm.  | In.<br>±.004 | mm.<br>± 0.10 | In.<br>±.010 | mm.<br>± 0.25 |
| 4P     | .648   | 16.45 | .478         | 12.11         | .250   | 6.37  | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 4S     | .648   | 16.45 | .478         | 12.11         | .309   | 7.85  | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 6P     | .748   | 19.00 | .578         | 14.65         | .350   | 8.91  | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 6S     | .748   | 19.00 | .578         | 14.65         | .409   | 10.40 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 10P    | .948   | 24.07 | .777         | 19.73         | .550   | 13.99 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 10S    | .948   | 24.07 | .777         | 19.73         | .609   | 15.47 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 15P    | 1.198  | 30.42 | 1.027        | 26.08         | .800   | 20.34 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 15S    | 1.198  | 30.42 | 1.027        | 26.08         | .859   | 21.82 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 20P    | 1.448  | 36.77 | 1.277        | 32.43         | 1.050  | 26.69 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 20S    | 1.448  | 36.77 | 1.277        | 32.43         | 1.109  | 28.17 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 25P    | 1.698  | 43.12 | 1.527        | 38.78         | 1.300  | 33.04 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 25S    | 1.698  | 43.12 | 1.527        | 38.78         | 1.359  | 34.52 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 30P    | 1.948  | 49.47 | 1.777        | 45.13         | 1.550  | 39.39 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 30S    | 1.948  | 49.47 | 1.777        | 45.13         | 1.609  | 40.87 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |
| 35P    | 2.198  | 55.82 | 2.027        | 51.48         | 1.800  | 45.74 | .135   | 3.42 | .241   | 6.13 | .364   | 9.25 | .184   | 4.67 | .250         | 6.35          | .213         | 5.41          |
| 35S    | 2.198  | 55.82 | 2.027        | 51.48         | 1.859  | 47.22 | .194   | 4.94 | .241   | 6.13 | .364   | 9.25 | .197   | 5.00 | .250         | 6.35          | .213         | 5.41          |

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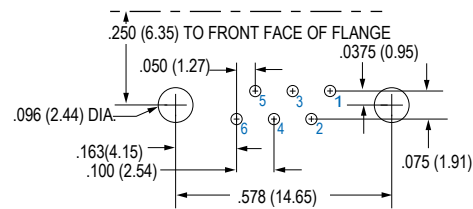


Micro-D  
Single Row

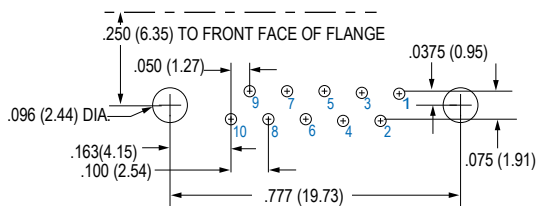
## GMSM PCB Layouts – Pin Connectors



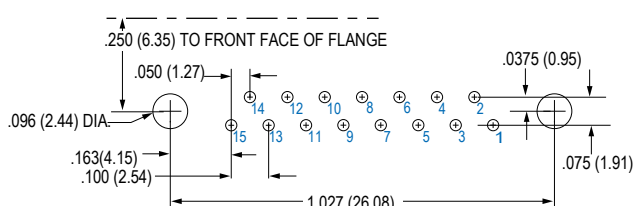
**4 PIN**



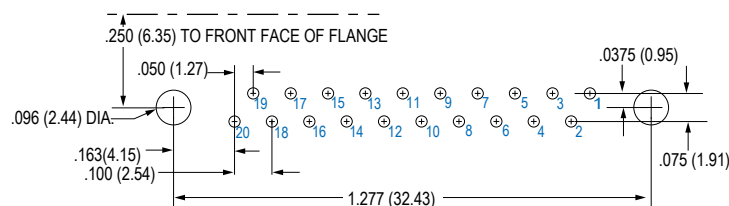
**6 PIN**



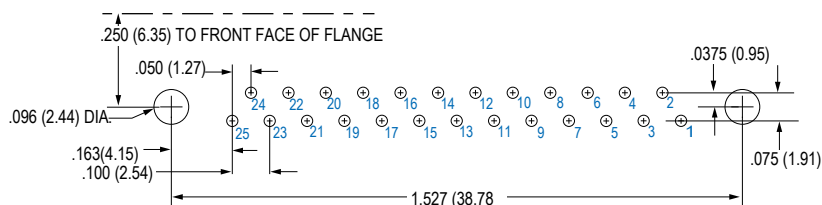
**10 PIN**



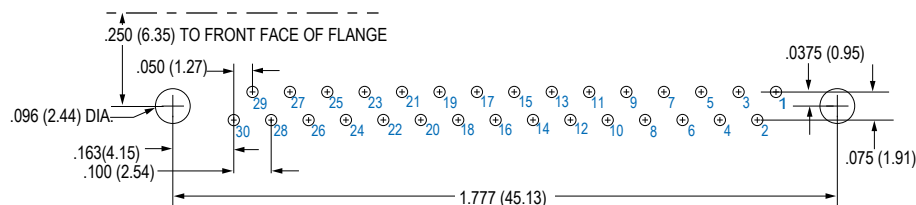
**15 PIN**



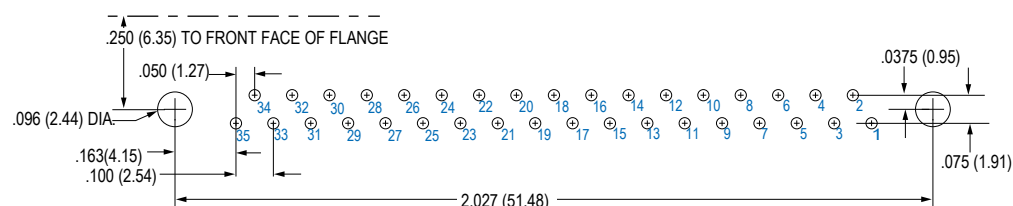
**20 PIN**



**25 PIN**

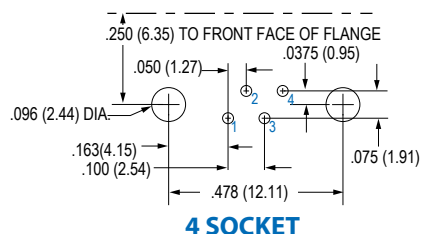


**30 PIN**

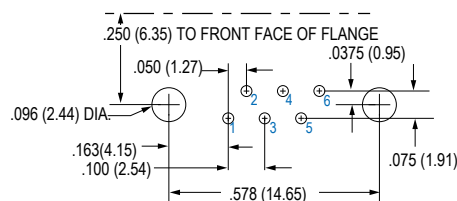


**35 PIN**

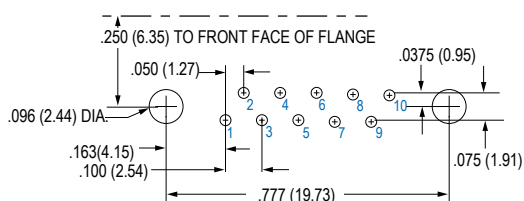
## GMSM PCB Layouts – Socket Connectors



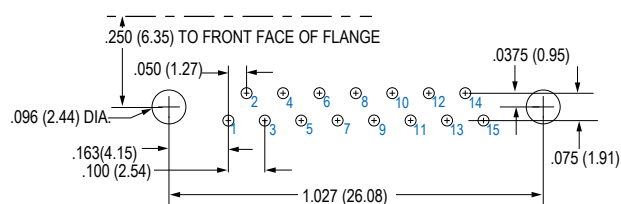
**4 SOCKET**



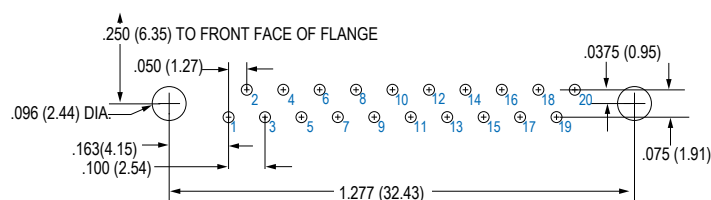
**6 SOCKET**



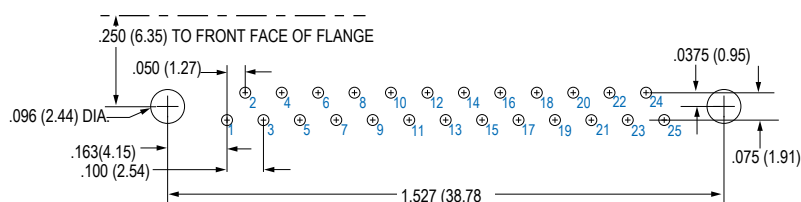
**10 SOCKET**



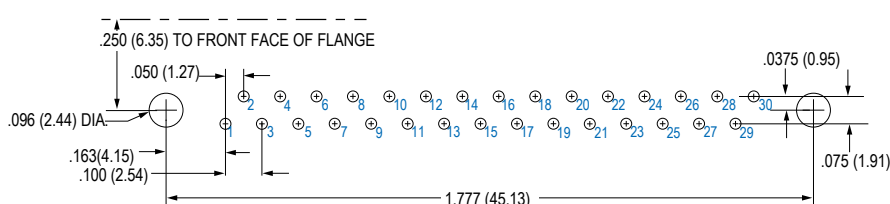
**15 SOCKET**



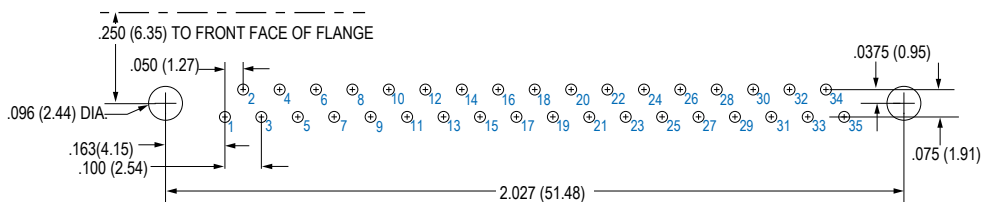
**20 SOCKET**



**25 SOCKET**



**30 SOCKET**



**35 SOCKET**