



## COTS Micro-D Vertical Mount (Straight) Printed Circuit Board Connectors Metal Shell, .100 Inch Pitch

- .100 Inch by .100 Inch Grid
- .020 Inch Diameter Pre-Tinned Tails
- Environmentally Sealed
- 9 through 100 Contacts

See Appendix for layout information.



### RELATED INFORMATION

|                                    |      |
|------------------------------------|------|
| Performance Specifications         | IBC* |
| Materials and Finishes             | IBC* |
| Contact Arrangements               | 7-8  |
| Panel Cutouts, Mounting Dimensions | 9    |

\* Available on the Inside Back  
Cover Fold-Out

### HOW TO ORDER

| Conn. Series               | Shell Plating Table III* | Insert Material Table I*            | No. of Contacts | Contact Type          | Termination Style              | Jackpost Option   | Threaded Insert Option                                  | Tail Length                          |
|----------------------------|--------------------------|-------------------------------------|-----------------|-----------------------|--------------------------------|-------------------|---------------------------------------------------------|--------------------------------------|
| MWDM                       | 1 – Cadmium              | L – LCP<br>(Liquid Crystal Polymer) | 9               | P – Pin<br>S – Socket | BS - Vertical Mount (Straight) | P                 | T - Threaded Insert in Board Mount Hole (Omit for None) | .110                                 |
|                            | 2 – Nickel               |                                     | 15              |                       |                                | R1                |                                                         | .150                                 |
|                            | 4 – Black Anodize        |                                     | 21              |                       |                                | R2                |                                                         | .190                                 |
|                            | 5 – Gold                 |                                     | 25              |                       |                                | R3                |                                                         | .250                                 |
|                            | 6 – Chem Film            |                                     | 31              |                       |                                | R4                |                                                         |                                      |
|                            |                          |                                     | 37              |                       |                                | (See Table Below) |                                                         |                                      |
|                            |                          |                                     | 51              |                       |                                | (Omit for None)   |                                                         | Other Lengths Available Upon Request |
|                            |                          |                                     | 100             |                       |                                |                   |                                                         |                                      |
| <b>Sample Part Number:</b> |                          |                                     |                 |                       |                                |                   |                                                         |                                      |
| MWDM                       | 1                        | L                                   | — 51            | P                     | BS                             | P                 | T —                                                     | .110                                 |

\* SEE INSIDE BACK COVER FOLD-OUT FOR COMPLETE INFORMATION

### JACKPOST OPTION

**P** - Standard Jackpost, Non-Removable

**R1** - Jackpost for Rear-Mounting to .032" Panel

**R2** - Jackpost for Rear-Mounting to .047" Panel

**R3** - Jackpost for Rear-Mounting to .062" Panel

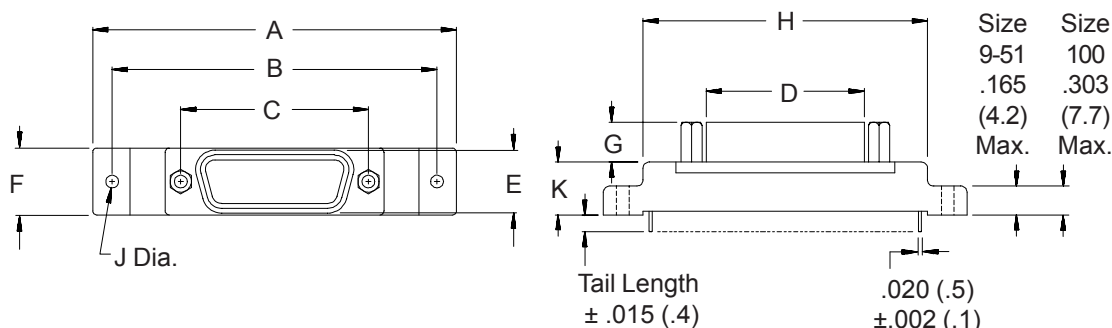
**R4** - Jackpost for Rear-Mounting to .093" Panel

OMIT FOR NONE

# COTS Micro-D Vertical Mount (Straight) Printed Circuit Board Connectors Metal Shell, .100 Inch Pitch



PCB  
Connectors



## DIMENSIONS

| Layout | A<br>Max     | B<br>± .007 (0.2) | C<br>± .005 (0.1) | D<br>Max     | E<br>Ref   |
|--------|--------------|-------------------|-------------------|--------------|------------|
| 9P     | 1.390 (35.3) | 1.150 (29.2)      | .565 (14.4)       | .333 (8.5)   | .185 (4.7) |
| 9S     | 1.390 (35.3) | 1.150 (29.2)      | .565 (14.4)       | .400 (10.2)  | .245 (6.2) |
| 15P    | 1.390 (35.3) | 1.150 (29.2)      | .715 (18.2)       | .483 (12.3)  | .185 (4.7) |
| 15S    | 1.390 (35.3) | 1.150 (29.2)      | .715 (18.2)       | .551 (14.0)  | .245 (6.2) |
| 21P    | 1.690 (42.9) | 1.450 (36.8)      | .865 (22.0)       | .633 (16.1)  | .185 (4.7) |
| 21S    | 1.690 (42.9) | 1.450 (36.8)      | .865 (22.0)       | .701 (17.8)  | .245 (6.2) |
| 25P    | 1.740 (44.2) | 1.500 (38.1)      | .965 (24.5)       | .733 (18.6)  | .185 (4.7) |
| 25S    | 1.740 (44.2) | 1.500 (38.1)      | .965 (24.5)       | .801 (20.3)  | .245 (6.2) |
| 31P    | 2.040 (51.8) | 1.800 (45.7)      | 1.115 (28.3)      | .883 (22.4)  | .185 (4.7) |
| 31S    | 2.040 (51.8) | 1.800 (45.7)      | 1.115 (28.3)      | .951 (24.1)  | .245 (6.2) |
| 37P    | 2.340 (59.4) | 2.100 (53.3)      | 1.265 (32.1)      | 1.033 (26.2) | .185 (4.7) |
| 37S    | 2.340 (59.4) | 2.100 (53.3)      | 1.265 (32.1)      | 1.101 (27.9) | .245 (6.2) |
| 51P    | 2.280 (57.9) | 2.000 (50.8)      | 1.215 (30.9)      | .983 (25.0)  | .230 (5.8) |
| 51S    | 2.280 (57.9) | 2.000 (50.8)      | 1.215 (30.9)      | 1.051 (26.7) | .290 (7.4) |
| 100P   | 3.250 (82.6) | 2.800 (71.1)      | 1.800 (45.7)      | 1.383 (35.1) | .271 (6.9) |
| 100S   | 3.250 (82.3) | 2.800 (71.1)      | 1.800 (45.7)      | 1.451 (36.9) | .330 (8.4) |

| Layout | F<br>Max    | G<br>Max   | H<br>Max     | J Dia.<br>± .005 (0.1) | K<br>Max    |
|--------|-------------|------------|--------------|------------------------|-------------|
| 9P     | .308 (7.8)  | .186 (4.7) | .885 (22.5)  | .096 (2.4)             | .355 (9.0)  |
| 9S     | .308 (7.8)  | .204 (5.2) | .885 (22.5)  | .096 (2.4)             | .355 (9.0)  |
| 15P    | .308 (7.8)  | .186 (4.7) | .945 (24.0)  | .096 (2.4)             | .355 (9.0)  |
| 15S    | .308 (7.8)  | .204 (5.2) | .945 (24.0)  | .096 (2.4)             | .355 (9.0)  |
| 21P    | .308 (7.8)  | .186 (4.7) | 1.185 (30.1) | .096 (2.4)             | .355 (9.0)  |
| 21S    | .308 (7.8)  | .204 (5.2) | 1.185 (30.1) | .096 (2.4)             | .355 (9.0)  |
| 25P    | .308 (7.8)  | .186 (4.7) | 1.275 (32.4) | .096 (2.4)             | .355 (9.0)  |
| 25S    | .308 (7.8)  | .204 (5.2) | 1.275 (32.4) | .096 (2.4)             | .355 (9.0)  |
| 31P    | .308 (7.8)  | .186 (4.7) | 1.575 (40.0) | .096 (2.4)             | .355 (9.0)  |
| 31S    | .308 (7.8)  | .204 (5.2) | 1.575 (40.0) | .096 (2.4)             | .355 (9.0)  |
| 37P    | .308 (7.8)  | .186 (4.7) | 1.875 (47.6) | .096 (2.4)             | .355 (9.0)  |
| 37S    | .308 (7.8)  | .204 (5.2) | 1.875 (47.6) | .096 (2.4)             | .355 (9.0)  |
| 51P    | .351 (8.9)  | .186 (4.7) | 1.775 (45.1) | .096 (2.4)             | .355 (9.0)  |
| 51S    | .351 (8.9)  | .204 (5.2) | 1.775 (45.1) | .096 (2.4)             | .355 (9.0)  |
| 100P   | .460 (11.7) | .186 (4.7) | 2.585 (40.3) | .145 (3.7)             | .550 (14.0) |
| 100S   | .460 (11.7) | .204 (5.2) | 2.585 (40.3) | .145 (3.7)             | .550 (14.0) |

Metric dimensions (mm) are indicated in parentheses.

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