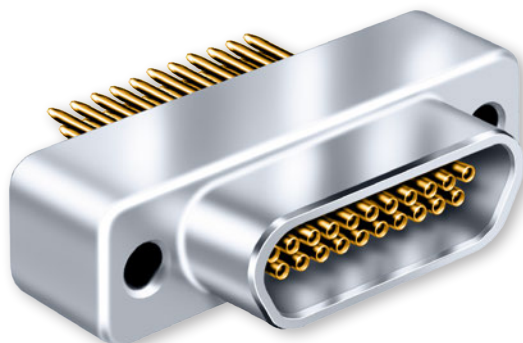


# 240-031 PCB Micro-D Filter Connectors Vertical Mount



Micro-D  
MIL-DTL-83513 Type



## Vertical Mount Printed Circuit Board Micro-D Filter

**Connectors.** These vertical mount PCB connectors are ideal for flexible circuit or motherboard applications.

**Key Features include** gold plated TwistPin contacts, machined aluminum shells, and either Pi or C filter elements. These environmentally sealed connectors are designed to meet the requirements of MIL-DTL-83513.

**Integral Board Standoffs and Pre-Tinned Tails**—These connectors are solder dipped (63/37 SnPb) and feature a full complement of mounting hardware options.

How To Order Micro-D Filter Vertical Mount PCB Connectors

| How To Order Micro-D Filter Vertical Mount PCB Connectors |                                                                |            |                                            |     |                                |   |   |   |    |
|-----------------------------------------------------------|----------------------------------------------------------------|------------|--------------------------------------------|-----|--------------------------------|---|---|---|----|
| Sample Part Number                                        |                                                                | 240-031    | -2                                         | -25 | P                              | C | D | 1 | PN |
| Series                                                    | 240-031                                                        |            |                                            |     |                                |   |   |   |    |
| Shell Finish                                              | Aluminum Shell                                                 |            | Stainless Steel Shell                      |     |                                |   |   |   |    |
|                                                           | 1 - Cadmium                                                    | 2 - Nickel | 3 - Passivated                             |     |                                |   |   |   |    |
|                                                           | 4 - Black Anodize                                              | 5 - Gold   |                                            |     |                                |   |   |   |    |
|                                                           | 6 - Chem Film                                                  |            |                                            |     |                                |   |   |   |    |
| Contact Layout                                            | 9, 15, 21, 25, 31, 37                                          |            | (See Table II)                             |     |                                |   |   |   |    |
| Contact Type                                              | P - Pin                                                        |            | S - Socket                                 |     |                                |   |   |   |    |
| Filter Type                                               | C - C Filter                                                   |            | P - Pi Filter                              |     | (See Table I)                  |   |   |   |    |
| Filter Class                                              | A, B, C, D, E, F, G, J                                         |            | (See Table I)                              |     |                                |   |   |   |    |
| PC Tail Length                                            | 1 - .110 Inches (2.79)                                         |            | 2 - .250 Inches (6.35)                     |     | Length in Inches ± .015 (0.38) |   |   |   |    |
| Hardware Option                                           | PCB Hardware Options                                           |            | Rear Panel Jackposts with Threaded Inserts |     | Jackscrew Options              |   |   |   |    |
|                                                           | NN - No Jackpost, No Threaded Insert                           |            | R6U - 0.125" (3.2) Panel                   |     | M - Hex Head Jackscrews        |   |   |   |    |
|                                                           | PN - Extended Jackpost for .062" (1.6) PCB, No Threaded Insert |            | R5U - 0.094" (2.4) Panel                   |     | S - Slot Head Jackscrews       |   |   |   |    |
|                                                           | RN - Extended Jackpost for .196" (5.0) PCB, No Threaded Insert |            | R4U - 0.062" (1.6) Panel                   |     |                                |   |   |   |    |
|                                                           | NU - Threaded Insert Only, No Jackposts                        |            | R3U - 0.047" (1.2) Panel                   |     |                                |   |   |   |    |
|                                                           | PU - Short Jackpost and Threaded Insert                        |            | R2U - 0.031" (0.8) Panel                   |     |                                |   |   |   |    |

Table I: Micro-D Filter Classes and Performance

| Filter Class     | A           | B           | C           | D          | E         | F        | G       | J      |
|------------------|-------------|-------------|-------------|------------|-----------|----------|---------|--------|
| Capacitance (pF) |             |             |             |            |           |          |         |        |
| C Filter         | 19000-28000 | 16000-22500 | 9000-16500  | 4000-6000  | 1650-2500 | 400-650  | 200-300 | 35-60  |
| Pi Filter        | 38000-56000 | 32000-45000 | 18000-33000 | 8000-12000 | 3300-5000 | 800-1300 | 400-600 | 70-120 |

Dimensions in inches (millimeters) and are subject to change without notice.

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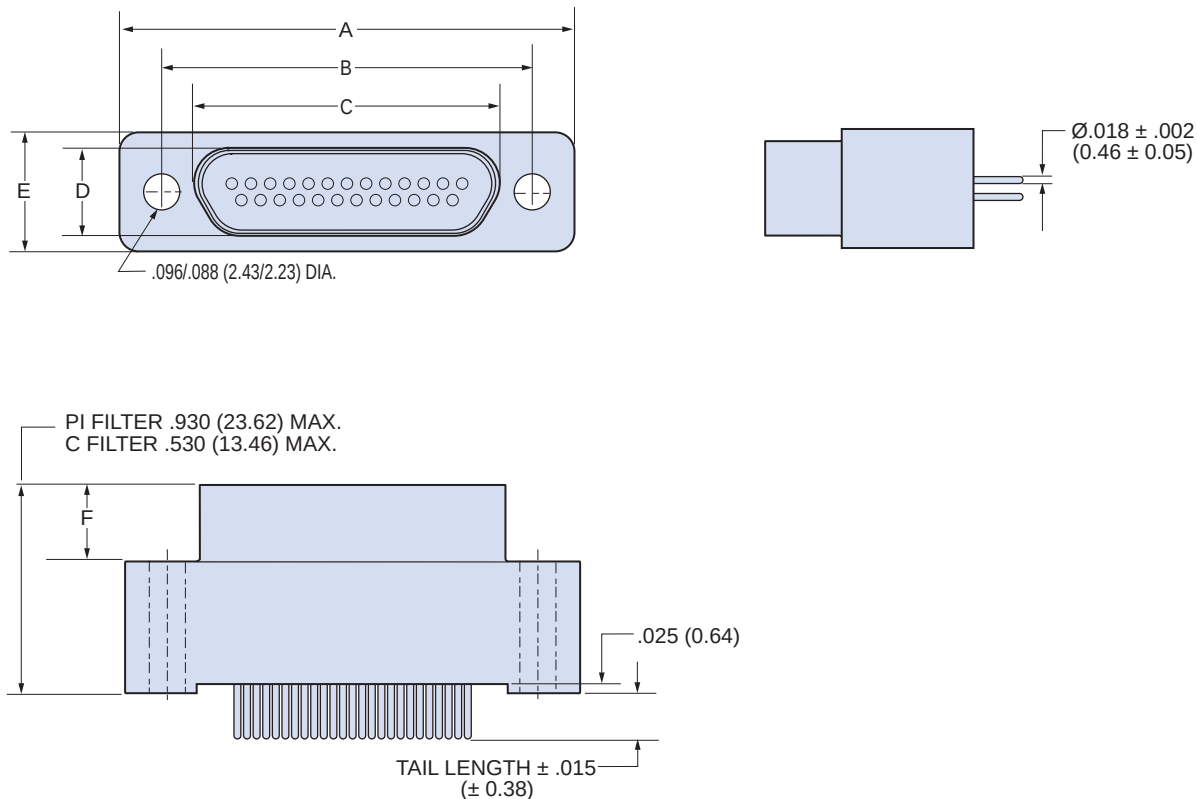
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## 240-031 PCB Micro-D Filter Connectors Vertical Mount

Table II: Dimensional Table Micro-D Filter Vertical PCB Dimensions



| Layout | A Max. |       | B              |                | C Max. |       | D Max. |      | E Max. |      | F              |                |
|--------|--------|-------|----------------|----------------|--------|-------|--------|------|--------|------|----------------|----------------|
|        | In.    | mm.   | In. $\pm .003$ | mm. $\pm 0.08$ | In.    | mm.   | In.    | mm.  | In.    | mm.  | In. $\pm .004$ | mm. $\pm 0.10$ |
| 9P     | .785   | 19.94 | .565           | 14.35          | .333   | 8.46  | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 9S     | .785   | 19.94 | .565           | 14.35          | .400   | 10.16 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |
| 15P    | .935   | 23.75 | .715           | 18.16          | .483   | 12.27 | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 15S    | .935   | 23.75 | .715           | 18.16          | .551   | 14.00 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |
| 21P    | 1.085  | 27.56 | .865           | 21.97          | .633   | 16.08 | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 21S    | 1.085  | 27.56 | .865           | 21.97          | .701   | 17.81 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |
| 25P    | 1.185  | 30.10 | .965           | 24.51          | .733   | 18.62 | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 25S    | 1.185  | 30.10 | .965           | 24.51          | .801   | 20.35 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |
| 31P    | 1.335  | 33.91 | 1.115          | 28.32          | .883   | 22.43 | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 31S    | 1.335  | 33.91 | 1.115          | 28.32          | .951   | 24.16 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |
| 37P    | 1.485  | 37.72 | 1.265          | 32.13          | 1.033  | 26.24 | .184   | 4.67 | .310   | 7.87 | .183           | 4.65           |
| 37S    | 1.485  | 37.72 | 1.265          | 32.13          | 1.101  | 27.96 | .250   | 6.35 | .310   | 7.87 | .195           | 4.95           |

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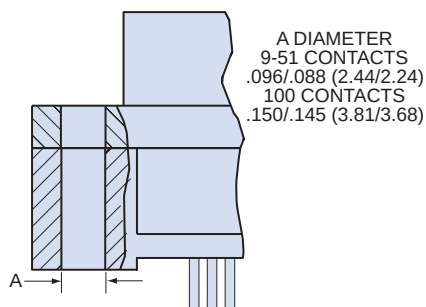
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# 240-031 Vertical Mount PCB Micro-D Filter Connectors Hardware Options

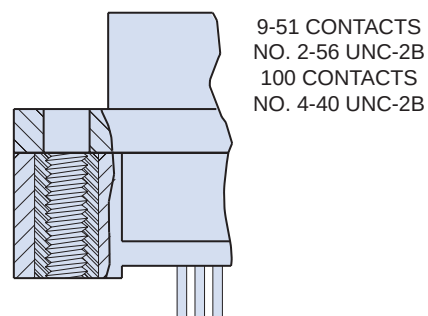


Micro-D  
MIL-DTL-83513 Type

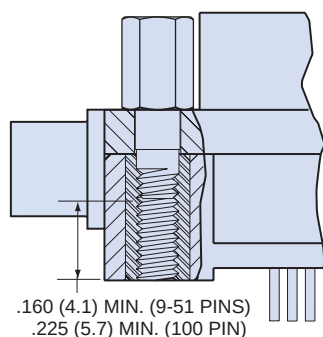
## Micro-D Filter Vertical PCB Hardware Options



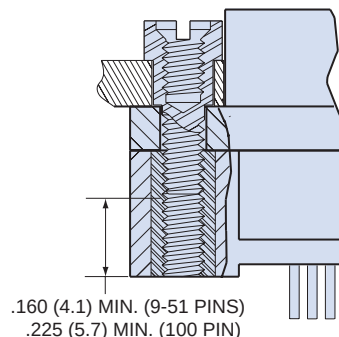
**NN Style**  
Connector Supplied Without Hardware  
Thru-Hole, No Hardware



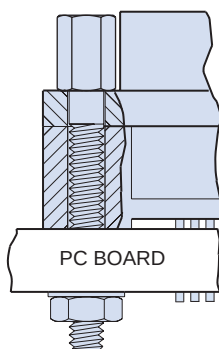
**NU Style**  
Connector Supplied With Threaded Inserts



**PU Style**  
Jackpost with Threaded Insert

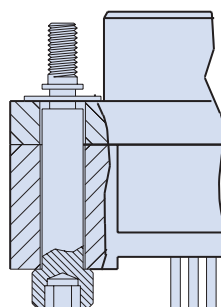


**RU Style**  
Rear Panel Jackpost with Threaded Insert

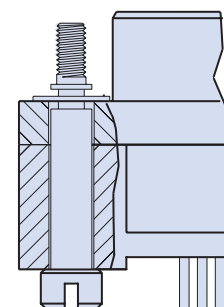


**PN Style**  
Extended Jackpost  
for .062" PCB

**RN Style**  
for .196" PCB



**M Style**  
Hex Head Jackscrew with E-Ring



**S Style**  
Slot Head Jackscrew with E-Ring

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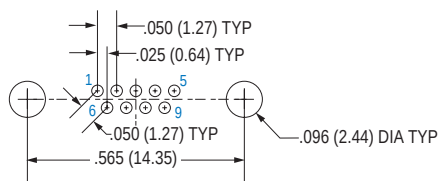
## Vertical Mount PCB Micro-D Filter Connectors

### PCB Layouts

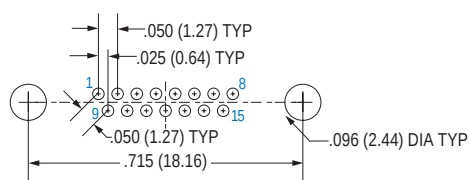
#### Micro-D Filter Vertical PCB Layouts — Pin Connector Shown

PC Tail Diameter  $.018 \pm .002$  (0.46  $\pm$  0.05)  
Contact numbers shown are for pin connectors.

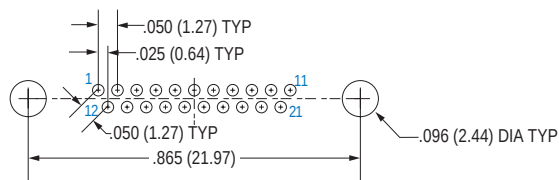
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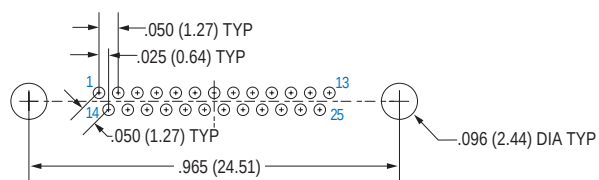
9 CONTACTS



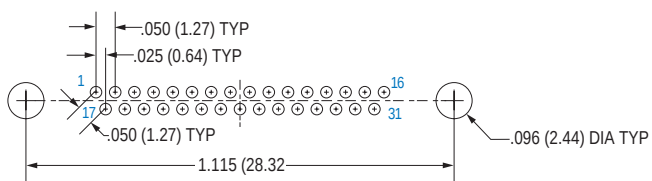
15 CONTACTS



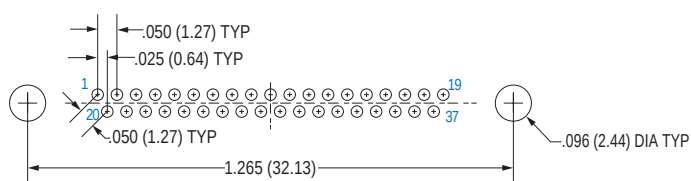
21 CONTACTS



25 CONTACTS



31 CONTACTS



37 CONTACTS

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# 240-031

## Vertical Mount PCB Micro-D Filter Connectors

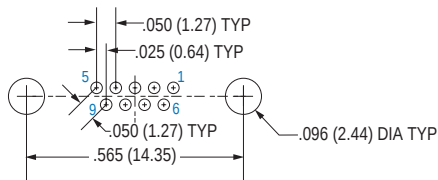
### PCB Layouts



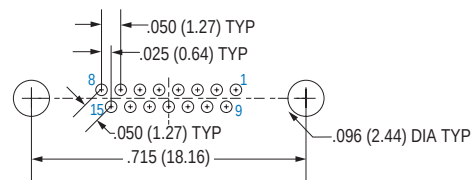
Micro-D  
MIL-DTL-83513 Type

#### Micro-D Filter Vertical PCB Layouts — Socket Connector Shown

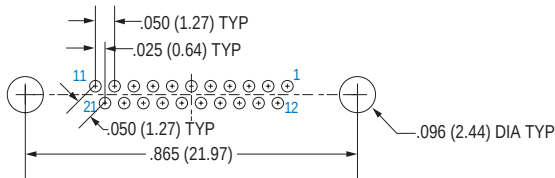
PC Tail Diameter  $.018 \pm .002$  ( $0.46 \pm 0.05$ )  
Contact numbers shown are for socket connectors.



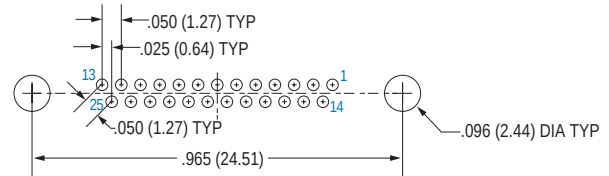
**9 CONTACTS**



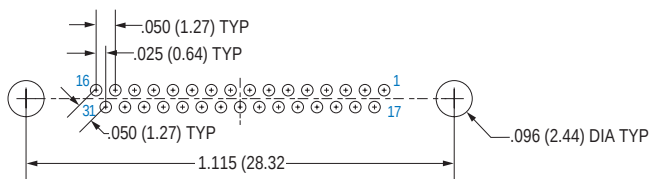
**15 CONTACTS**



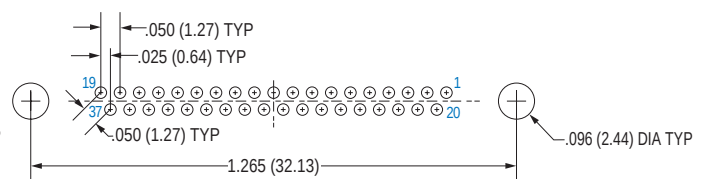
**21 CONTACTS**



**25 CONTACTS**



**31 CONTACTS**



**37 CONTACTS**

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