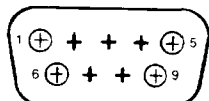
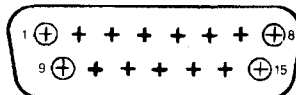


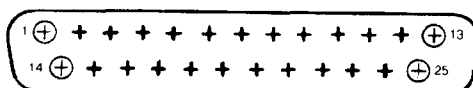
## Standard Density Plug Inserts



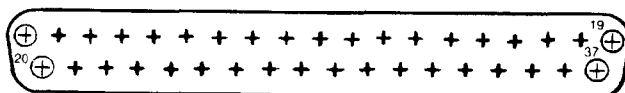
Shell Size E  
(9 Position)



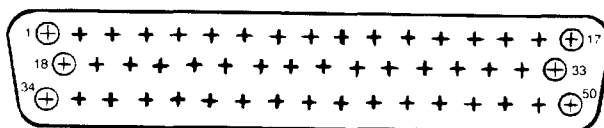
Shell Size A  
(15 Position)



Shell Size B  
(25 Position)

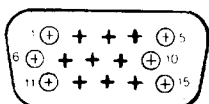


Shell Size C  
(37 Position)

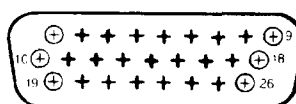


Shell Size D  
(50 Position)

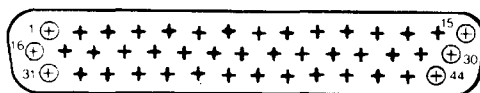
## 1.5 Density Plug Inserts



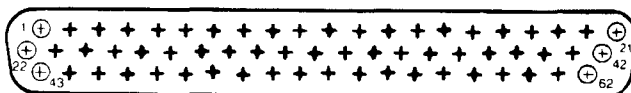
Shell Size E  
(15 Position)



Shell Size A  
(26 Position)



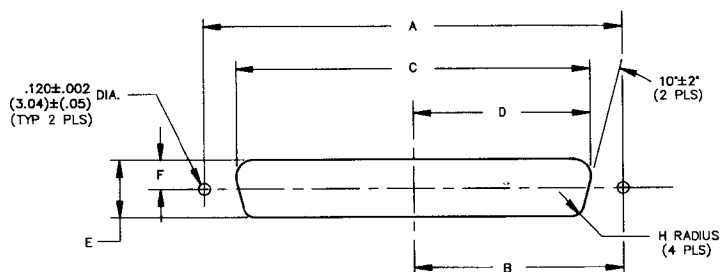
Shell Size B  
(44 Position)



Shell Size C  
(62 Position)

NOTE: Mating face of plug is shown; socket is mirror image.

**Panel Mounting Specifications**

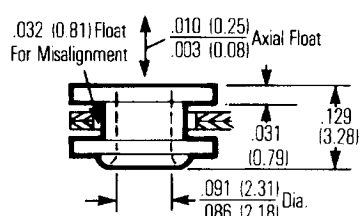


**Dimensions**

| Shell Size | Positions | Mounting Method   |  | A    |       | B    |       | C    |       | D    |       | E    |       | F    |      | H    |      |
|------------|-----------|-------------------|--|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|
|            |           | Front/ Rear Panel |  | in   | mm    | in   | mm    | in   | mm    | in   | mm    | in   | mm    | in   | mm   | in   | mm   |
| E          | 9         | Front             |  | 0.98 | 24.89 | 0.49 | 12.45 | 0.87 | 22.10 | 0.44 | 11.18 | 0.51 | 12.95 | 0.26 | 6.60 | 0.08 | 2.03 |
|            |           | Rear              |  | 0.98 | 24.89 | 0.49 | 12.45 | 0.81 | 20.57 | 0.40 | 10.16 | 0.45 | 11.43 | 0.23 | 5.84 | 0.13 | 3.30 |
| A          | 15        | Front             |  | 1.31 | 33.27 | 0.66 | 16.76 | 1.10 | 27.94 | 0.60 | 15.24 | 0.51 | 12.95 | 0.26 | 6.60 | 0.08 | 2.03 |
|            |           | Rear              |  | 1.31 | 33.27 | 0.66 | 16.76 | 1.13 | 28.70 | 0.57 | 14.48 | 0.45 | 11.43 | 0.23 | 5.84 | 0.13 | 3.30 |
| B          | 25        | Front             |  | 1.85 | 46.99 | 0.93 | 23.62 | 1.74 | 44.20 | 0.87 | 22.10 | 0.51 | 12.95 | 0.26 | 6.60 | 0.08 | 2.03 |
|            |           | Rear              |  | 1.85 | 46.99 | 0.93 | 23.62 | 1.67 | 42.42 | 0.84 | 21.34 | 0.45 | 11.43 | 0.23 | 5.84 | 0.13 | 3.30 |
| C          | 37        | Front             |  | 2.50 | 63.50 | 1.25 | 31.75 | 2.39 | 60.71 | 1.20 | 30.48 | 0.51 | 12.95 | 0.26 | 6.60 | 0.08 | 2.03 |
|            |           | Rear              |  | 2.50 | 63.50 | 1.25 | 31.75 | 2.33 | 59.18 | 1.16 | 29.46 | 0.45 | 11.43 | 0.23 | 5.84 | 0.13 | 3.30 |
| D          | 50        | Front             |  | 2.41 | 61.21 | 1.20 | 30.48 | 2.30 | 58.42 | 1.15 | 29.21 | 0.62 | 15.75 | 0.31 | 6.60 | 0.08 | 2.03 |
|            |           | Rear              |  | 2.41 | 61.21 | 1.20 | 30.48 | 2.22 | 56.39 | 1.11 | 28.19 | 0.56 | 14.22 | 0.28 | 5.84 | 0.13 | 3.30 |

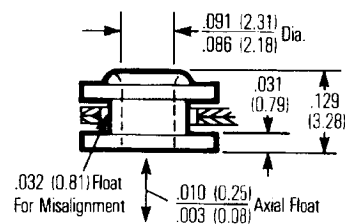
**PANEL MOUNTING HARDWARE: Aids in alignment of plug and receptacle.**

**Float Bushing**



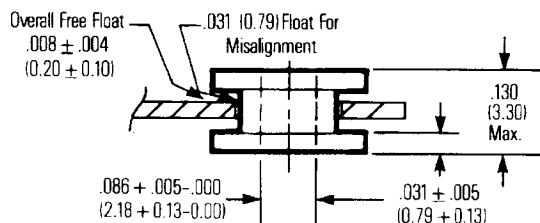
Rear panel mounting

**Reverse Float Bushing**



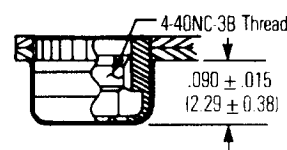
Front panel mounting

**Floating Dual Bushing**

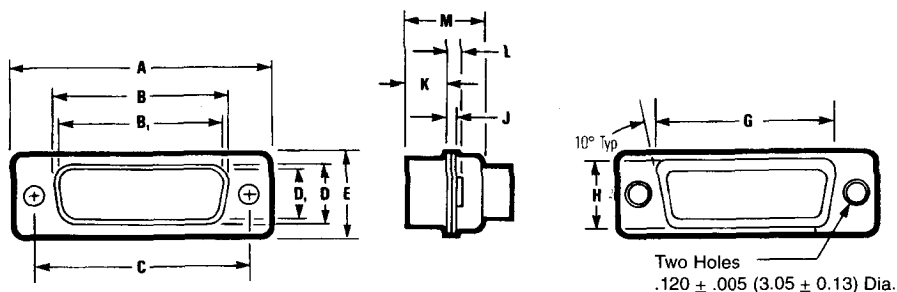


Front and rear panel mounting

**4-40 Clinch Nut**



Rear panel mounting



Mating Side

Termination Side

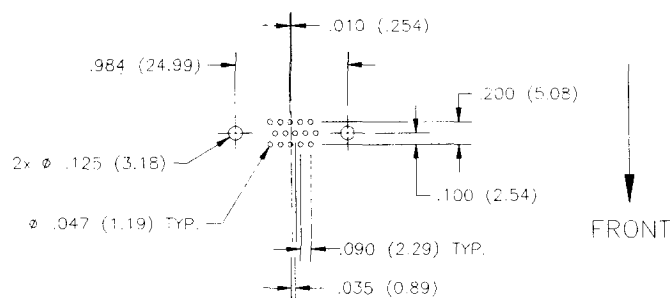
| Shell Size | Positions | Connector Type | A±.015"<br>(0.38mm) |       | B±.010"<br>(0.25mm) |       | B <sub>1</sub> ±.005"<br>(0.13 mm) |       | C±.005"<br>(0.13mm) |       | D±.010"<br>(0.25mm) |        | D <sub>1</sub> ±.010"<br>(0.25mm) |      | E±.010"<br>(0.25mm) |       |
|------------|-----------|----------------|---------------------|-------|---------------------|-------|------------------------------------|-------|---------------------|-------|---------------------|--------|-----------------------------------|------|---------------------|-------|
|            |           |                | in                  | mm    | in                  | mm    | in                                 | mm    | in                  | mm    | in                  | mm     | in                                | mm   | in                  | mm    |
| E          | 9         | Plug           | 1.213               | 30.81 | --                  | --    | .666                               | 16.90 | 0.984               | 24.99 | --                  | --     | .329                              | 8.40 | .494                | 12.55 |
|            |           | Socket         | 1.213               | 30.81 | .640                | 16.26 | --                                 | --    | 0.984               | 24.99 | .308                | 7.82   | --                                | --   | .494                | 12.55 |
| A          | 15        | Plug           | 1.541               | 39.14 | --                  | ---   | .994                               | 25.30 | 1.312               | 33.32 | --                  | ---    | .329                              | 8.40 | .494                | 12.55 |
|            |           | Socket         | 1.541               | 39.14 | .968                | 24.59 | --                                 | --    | 1.312               | 33.32 | .308                | --7.82 | --                                | --   | .494                | 12.55 |
| B          | 25        | Plug           | 2.088               | 53.04 | --                  | --    | 1.534                              | 39.00 | 1.852               | 47.04 | --                  | --     | .329                              | 8.40 | .494                | 12.55 |
|            |           | Socket         | 2.088               | 53.04 | 1.508               | 38.30 | --                                 | --    | 1.852               | 47.04 | .308                | 7.82   | --                                | --   | .494                | 12.55 |
| C          | 37        | Plug           | 2.729               | 69.32 | --                  | ---   | 2.182                              | 55.40 | 2.500               | 63.50 | --                  | ---    | .329                              | 8.40 | .494                | 12.55 |
|            |           | Socket         | 2.729               | 69.32 | 2.156               | 54.76 | --                                 | --    | 2.500               | 63.50 | .308                | 7.82   | --                                | ---  | .494                | 12.55 |
| D          | 50        | Plug           | 2.635               | 66.93 | --                  | --    | 2.079                              | 52.80 | 2.406               | 61.11 | --                  | --     | .436                              | 8.40 | .605                | 15.37 |
|            |           | Socket         | 2.635               | 66.93 | 2.062               | 52.34 | --                                 | --    | 2.406               | 61.11 | .420                | 7.82   | --                                | --   | .605                | 15.37 |

| Shell Size | Positions | Connector Type | G±.010"<br>(0.25mm) |       | H±.010"<br>(0.25mm) |       | J±.010"<br>(0.25 mm) |      | K±.005"<br>(0.25mm) |      | L±.010"<br>(0.25mm) |      | M±.010"<br>(0.25mm) |       |
|------------|-----------|----------------|---------------------|-------|---------------------|-------|----------------------|------|---------------------|------|---------------------|------|---------------------|-------|
|            |           |                | in                  | mm    | in                  | mm    | in                   | mm   | in                  | mm   | in                  | mm   | in                  | mm    |
| E          | 9         | Plug           | .759                | 19.28 | .422                | 10.72 | .030                 | 0.76 | .236                | 5.99 | .045                | 1.14 | .422                | 10.72 |
|            |           | Socket         | .759                | 19.28 | .422                | 10.72 | .030                 | 0.76 | .243                | 6.17 | .045                | 1.14 | .429                | 10.92 |
| A          | 15        | Plug           | 1.083               | 27.51 | .422                | 10.72 | .030                 | 0.76 | .236                | 5.99 | .045                | 1.14 | .422                | 10.72 |
|            |           | Socket         | 1.083               | 27.51 | .422                | 10.72 | .030                 | 0.76 | .253                | 6.17 | .045                | 1.14 | .429                | 10.92 |
| B          | 25        | Plug           | 1.625               | 41.27 | .422                | 10.72 | .039                 | 0.99 | .231                | 5.87 | .060                | 1.52 | .426                | 10.82 |
|            |           | Socket         | 1.625               | 41.27 | .422                | 10.72 | .030                 | 0.76 | .243                | 6.17 | .045                | 1.14 | .429                | 10.92 |
| C          | 37        | Plug           | 2.272               | 57.71 | .422                | 10.72 | .039                 | 0.99 | .231                | 5.87 | .060                | 1.52 | .426                | 10.82 |
|            |           | Socket         | 2.272               | 57.71 | .422                | 10.72 | .030                 | 0.76 | .243                | 6.17 | .045                | 1.14 | .429                | 10.92 |
| D          | 50        | Plug           | 2.178               | 55.32 | .534                | 13.56 | .039                 | 0.99 | .231                | 5.87 | .060                | 1.52 | .426                | 10.82 |
|            |           | Socket         | 2.178               | 55.32 | .534                | 13.56 | .030                 | 0.76 | .243                | 6.17 | .045                | 1.14 | .429                | 10.92 |

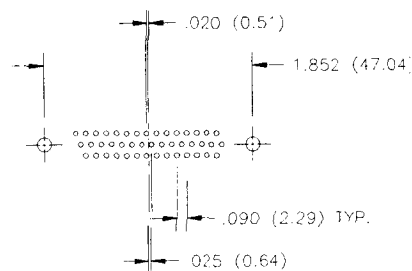
B and D are outside dimensions for socket. B and D are inside dimensions for plug.



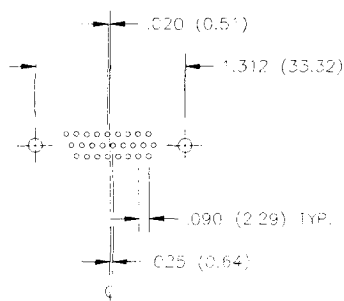
**1.5 Density D-subminiature  
Recommended PCB Layout for  
Footprint (Component side shown)**



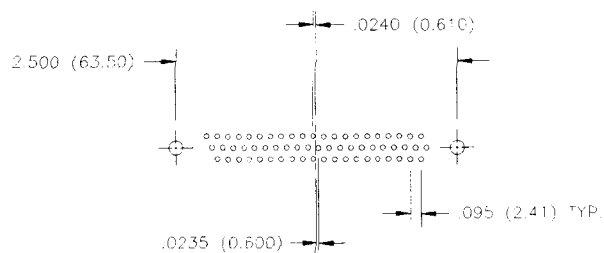
**15 Position - Shell Size E**



**44 Position - Shell Size B**



**26 Position - Shell Size A**



**62 Position - Shell Size C**

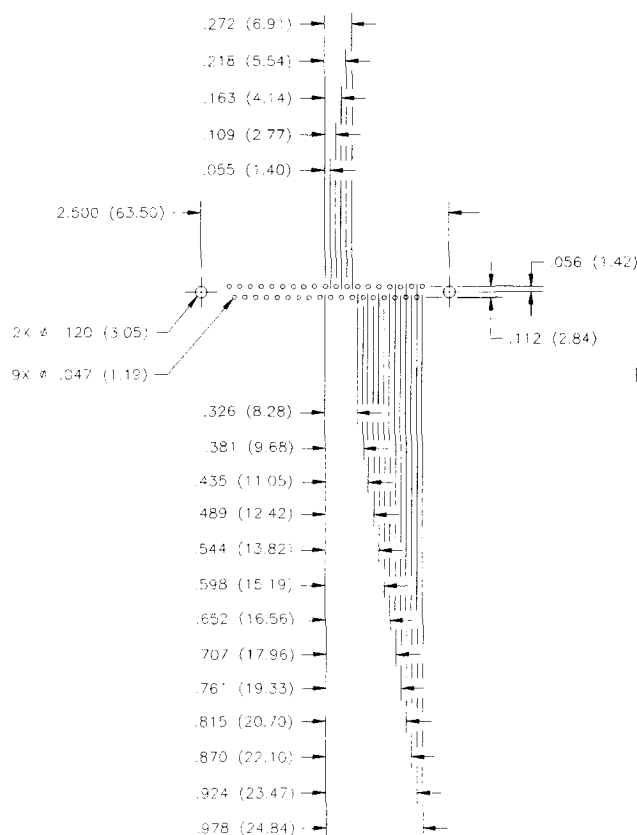
The footprints on this page are standard for all metal shell D-subminiature connectors.

On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

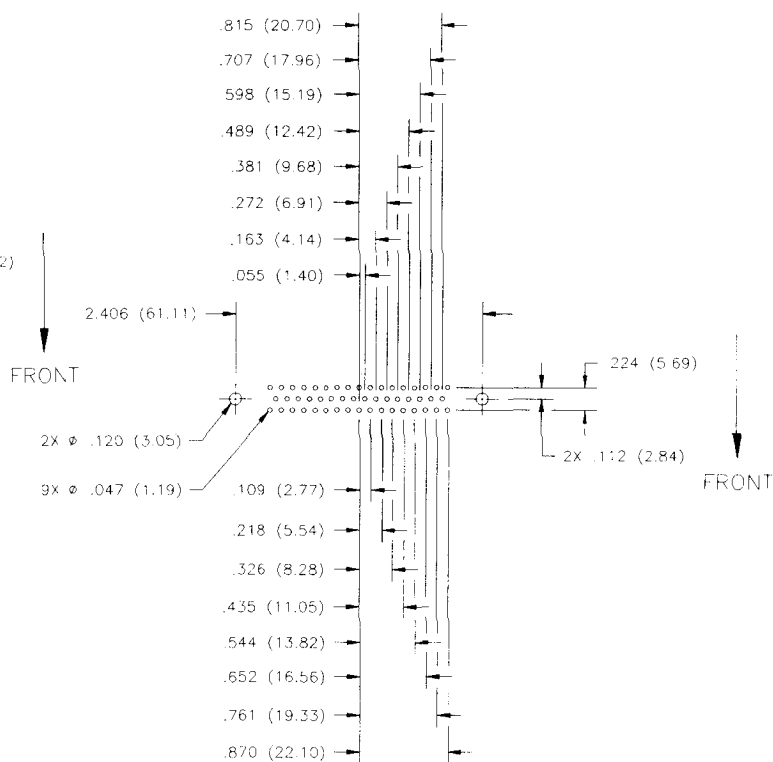
**PC Board Lead Hole Size**

| Terminal Dia. |           | Hole Dia. |      |
|---------------|-----------|-----------|------|
| in            | mm        | in        | mm   |
| .040          | 1.02      | .055      | 1.40 |
| .030          | 0.76      | .045      | 1.14 |
| .024-.025     | 0.61-0.64 | .039      | 0.99 |

### Standard Density D-subminiature Mounting Dimensions Board Layouts Footprints (Component side shown)



37 Position  
Shell Size C



50 Position  
Shell Size D

The footprints on this page are standard for all metal shell D-subminiature connectors.

On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

#### PC Board Lead Hole Size

| Terminal Dia. |           | Hole Dia. |      |
|---------------|-----------|-----------|------|
| in            | mm        | in        | mm   |
| .040          | 1.02      | .055      | 1.40 |
| .030          | 0.76      | .045      | 1.14 |
| .024-.025     | 0.61-0.64 | .039      | 0.99 |