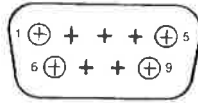


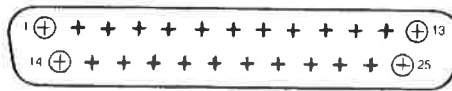
Standard Density Plug Inserts



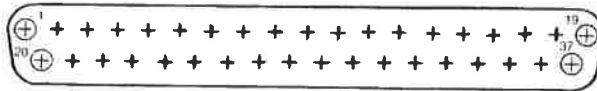
Shell Size E
(9 Position)



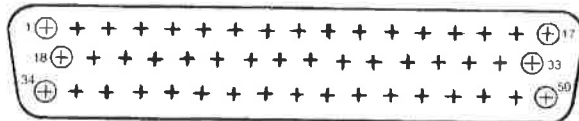
Shell Size A
(15 Position)



Shell Size B
(25 Position)



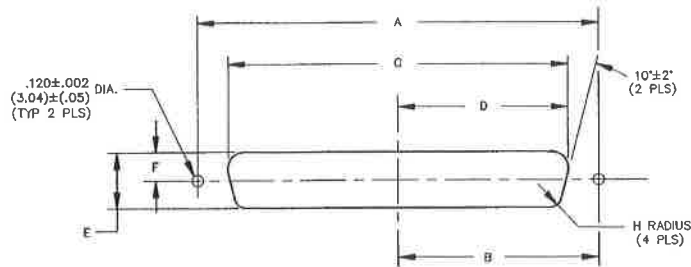
Shell Size C
(37 Position)



Shell Size D
(50 Position)

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

Panel Mounting Specifications



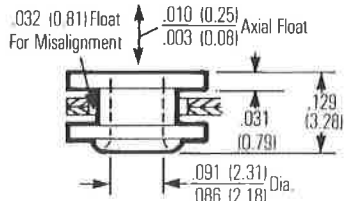
Dimensions

| 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 |

4

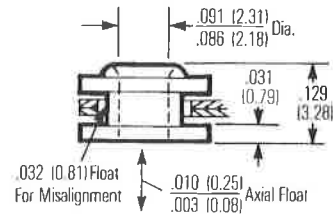
PANEL MOUNTING HARDWARE: Aids in alignment of plug and receptacle.

Float Bushing



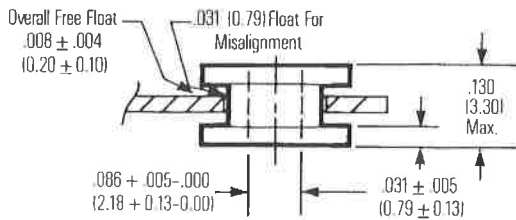
Rear panel mounting

Reverse Float Bushing



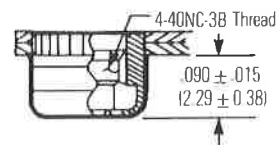
Front panel mounting

Floating Dual Bushing



Front and rear panel mounting

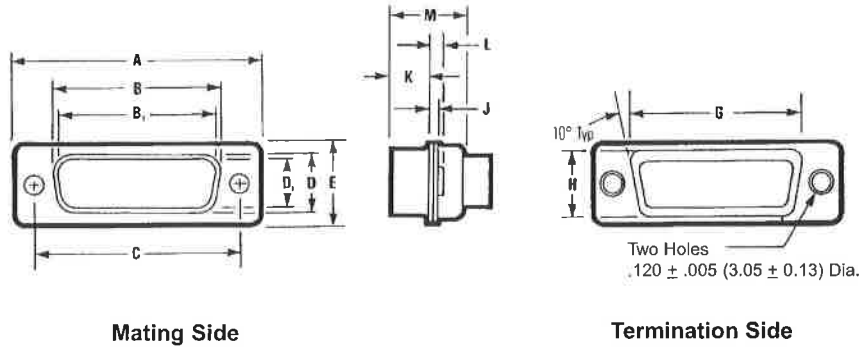
4-40 Clinch Nut



Rear panel mounting

D-subminiature Connectors Information

Introduction Shells and Mounts



Mating Side

Termination Side

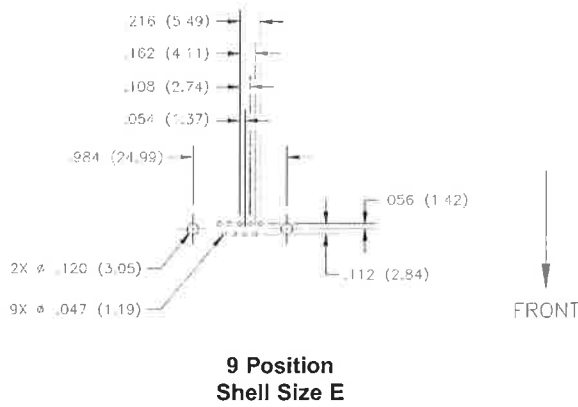
| Shell Size | Positions | Connector Type | A ±.015" (0.38mm) | | B ±.010" (0.25mm) | | B ₁ ±.005" (0.13 mm) | | C ±.005" (0.13mm) | | D ±.010" (0.25mm) | | D ₁ ±.010" (0.25mm) | | E ±.010" (0.25mm) | |
|------------|-----------|----------------|----------------------|-------|----------------------|-------|------------------------------------|-------|----------------------|-------|----------------------|-------|-----------------------------------|-------|----------------------|-------|
| | | | 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 | 11.07 | .605 | 15.37 |
| | | Socket | 2.635 | 66.93 | 2.062 | 52.34 | -- | -- | 2.406 | 61.11 | .420 | 10.67 | -- | -- | .605 | 15.37 |

| Shell Size | Positions | Connector Type | G ±.010" (0.25mm) | | H ±.010" (0.25mm) | | J ±.010" (0.25 mm) | | K ±.005" (0.25mm) | | L ±.010" (0.25mm) | | M ±.010" (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 |

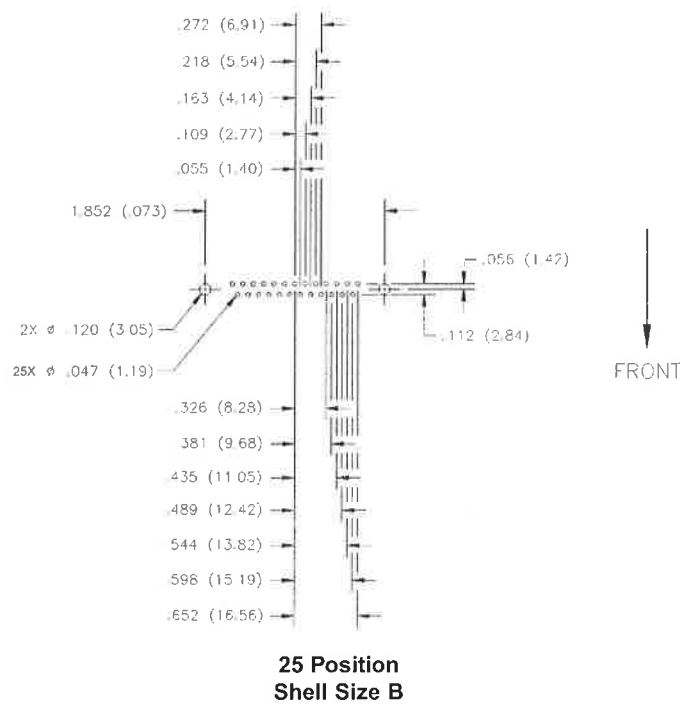
B and D are outside dimensions for socket. D and B are inside dimensions for plug.

4

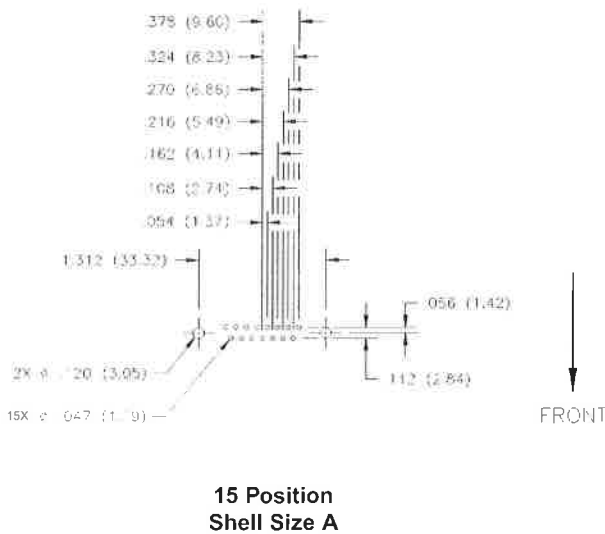
**Standard Density D-subminiature
Mounting Dimensions Board Layouts
Footprints (Component side shown)**



**9 Position
Shell Size E**



**25 Position
Shell Size B**



**15 Position
Shell Size A**

4

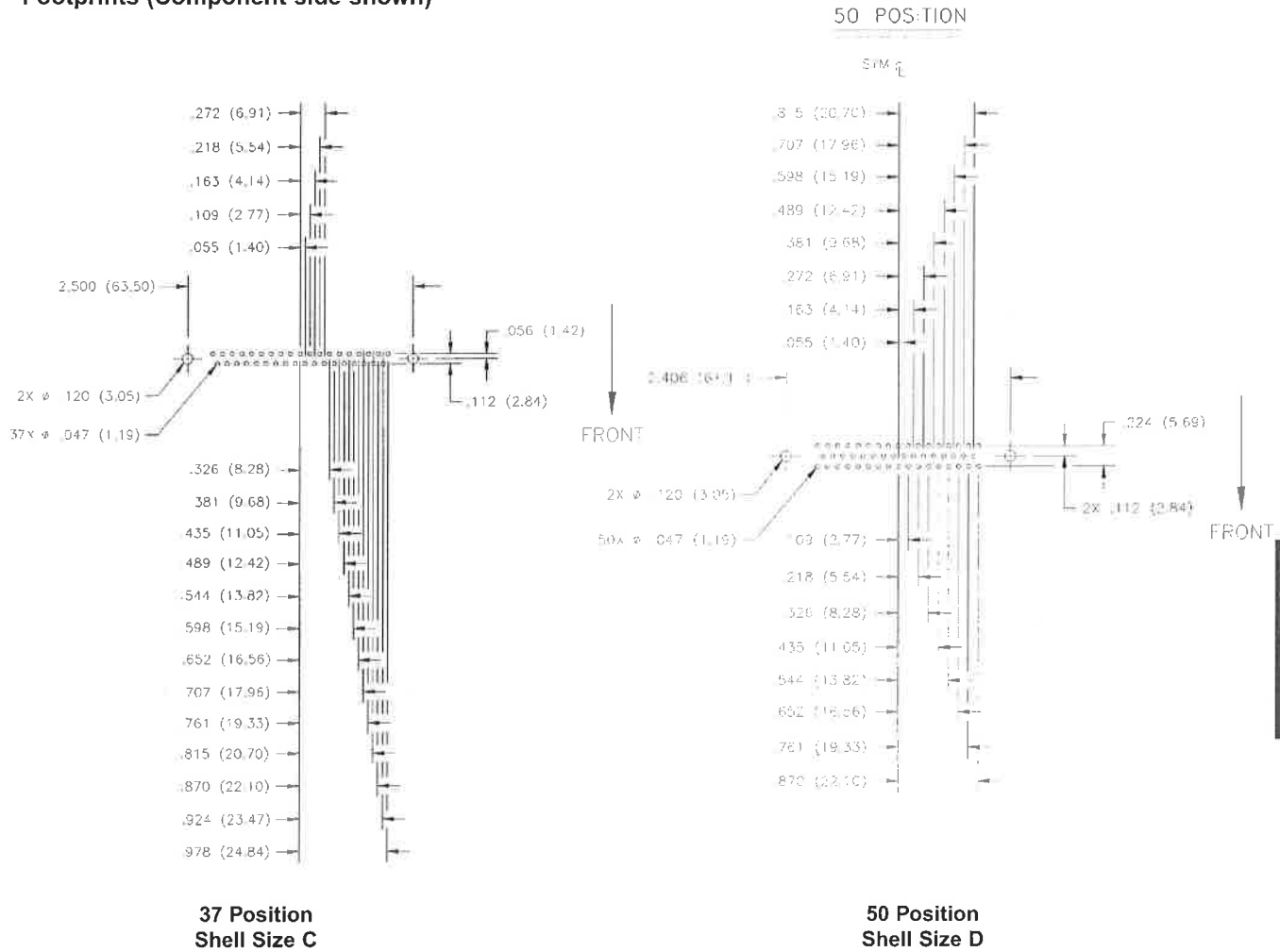
The footprints on this page are standard for all metal shell D-subminiature connectors.

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 |