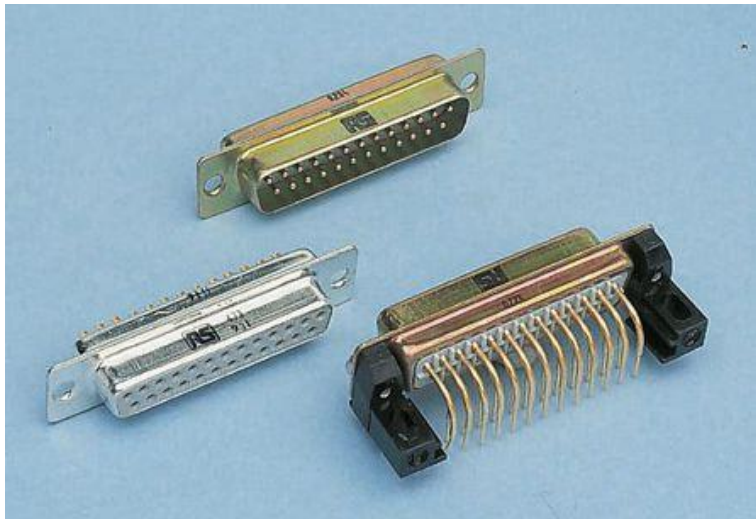


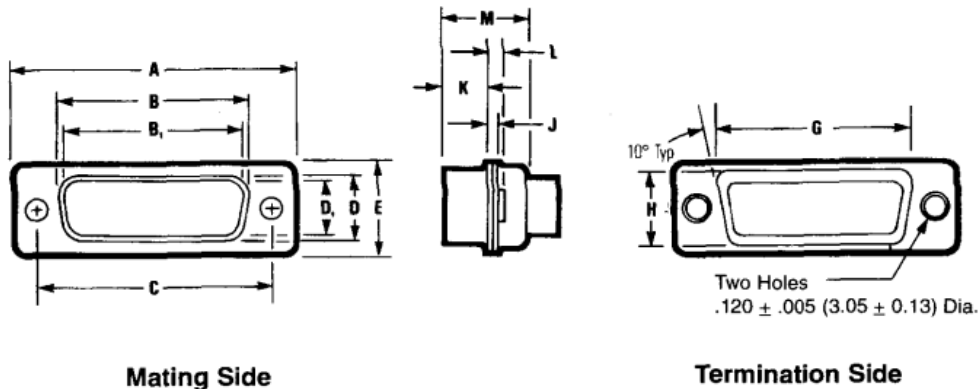
Datasheet

Straight Panel Mount Solder D-sub Connector 50 Way

RS Stock 468-579



Dimensions: (mm)



| Shell Size | Connector 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 | 8.40 | .605 | 15.37 |
| | | Socket | 2.635 | 66.93 | 2.062 | 52.34 | -- | -- | 2.406 | 61.11 | .420 | 7.82 | -- | -- | .605 | 15.37 |

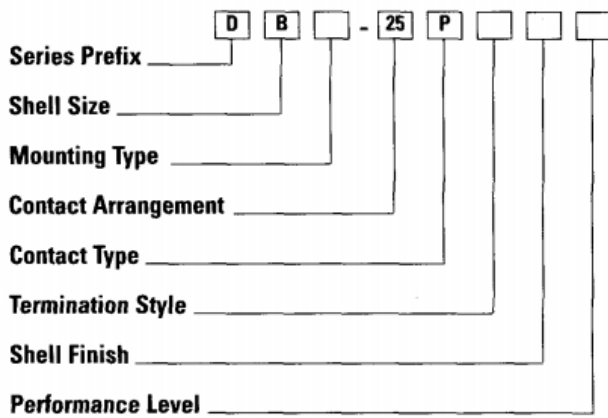


Features

- Standards RS232 interface
- Bright tin finish & grounding indents available for EMI/RFI shielding
- Meets Dimensional requirements of MIL-C-24308, BS9523, F0018 & DIN 41652
- UL 94V-0 rated insulators
- Compatible with all other D sub-miniatures

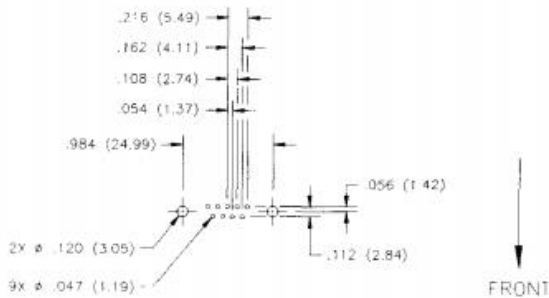
Technical Data

| | | | |
|---|---|------------------------------|--|
| Termination Options | Solder Bucket, Flow Solder Straight & 90° Wire ware | Proof Voltage | 2.5 Kv d.c. or a.c. peak |
| Number of Contacts | 9 15 25 37 50 | Working Voltage | 750V d.c. or a.c. peak |
| Maximum Insertion & Extraction Force | 30 50 83 123 167N | Contact Resistance | $5 \times 10^{-3} \Omega$ max |
| Performance Level | 1, 2 or 3 | Insulation Resistance | $\geq 5 \times 10^9 \Omega$ |
| Wire Accommodation | $\leq 0.5 \text{ mm}^2$ (20AWG) | Temperature Range | -55° to +125°C |
| Plug Contact Material | Copper Alloy | Insulator Materials | GF Polyester. UL 94V-0 Rated |
| Socket Contact Material | Copper Alloy | Shell Materials | Steel - Zinc plated with yellow chromate passivation include bright tin finish |
| Current rating | 5A | | |

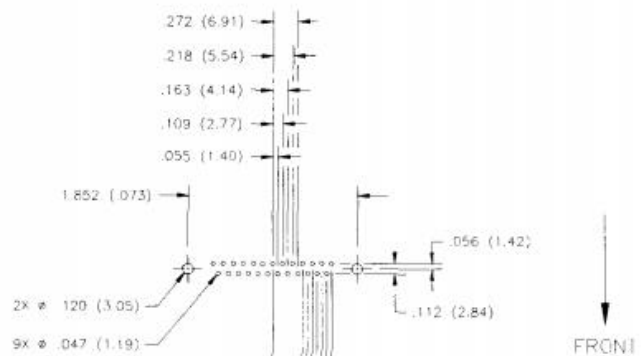


- Series Prefix** D
Shell Size E, A, B, C or D
Mounting Type B -4-40 rivnut for rear panel mounting
P -M3 rivnut for rear panel mounting
D -with female screw locks fitted
E -4-40 clinch-out for rear panel mounting with locking feature for high vibration applications
F -Float mount for rear panel mounting
Y -Universal float mount
No designation - \varnothing 3.05 mm mounting hole
90° Flow Solder versions are not available with float mounts
- Contact Arrangement** 9, 15, 25, 37 or 50
Contact Type P or S
Termination Style 90° Flow Solder European Footprint
- 1A0N** -without brackets
1A1N -with plastic brackets
1A2N -with plastic brackets and keeper moulding
1A3N -with metal mounting brackets*
1AEN -with earthing straps on plastic brackets with keeper moulding*
1ASN -with boardlock, earthing straps, plastic bracket and keeper moulding*
- For reverse orientation of contacts relative to shell, replace N with R**
*Please specify rivnuts or screw locks, mounting type B, P, or D (Rivnuts standard)
- Straight Flow Solder** OL2 -Termination 0.6mm, 5.3mm Long
BL2 -As OL2 with vertical Board locks 4/40 threads
Solder Bucket F179A -0.61mm square section pins for up to 3 wraps
Mini Wire Wrap No designation required
Shell Finish T -Bright tin
TI -Bright tin with grounding indents (plugs only)
No designation -Zinc plated with yellow chromate passivation.
- Performance Level** 2 -DIN Class 2
1 -Exceeds DIN Class 2
No designation -Performance level 3

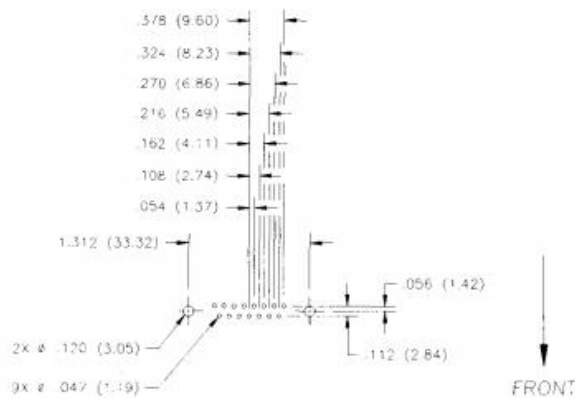
**Standard Density D-subminiature
Mounting Dimensions Board Layouts
Footprints (Component side shown)**



**9 Position
Shell Size E**



**25 Position
Shell Size B**



**15 Position
Shell Size A**

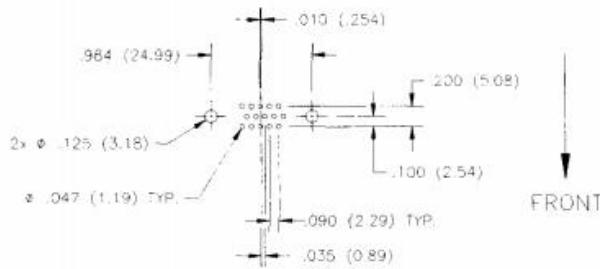
The footprints on this page are standard for all metal shell D-subminiature connectors.

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

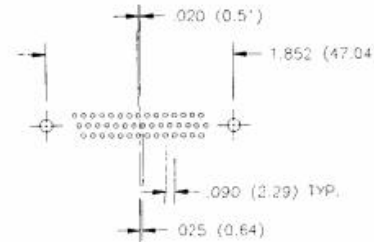
PC Board Lead Hole Size

| 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 |

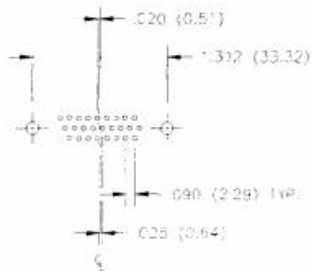
**1.5 Density D-subminiature
Recommended PCB Layout for
Footprint (Component side shown)**



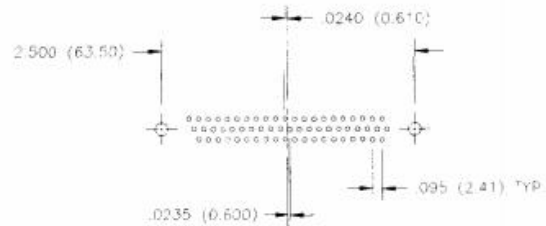
15 Position - Shell Size E



44 Position - Shell Size B



26 Position - Shell Size A



62 Position - Shell Size C

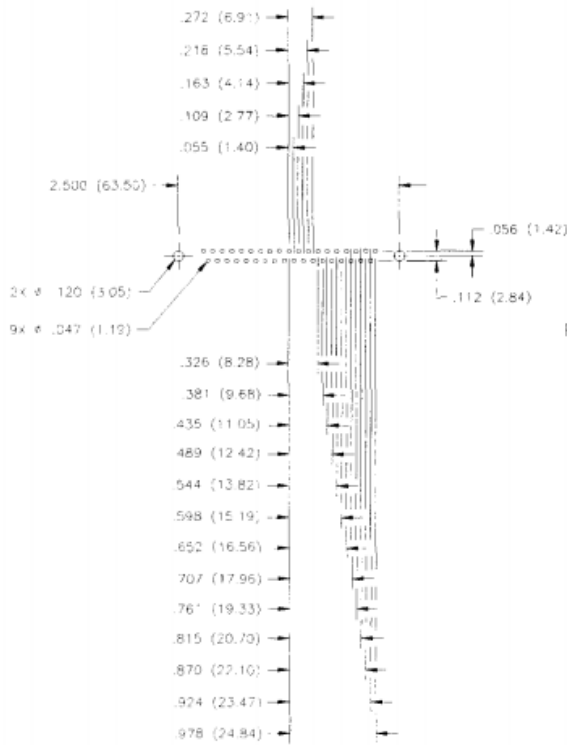
The footprints on this page are standard for all metal shell D-subminiature connectors.

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

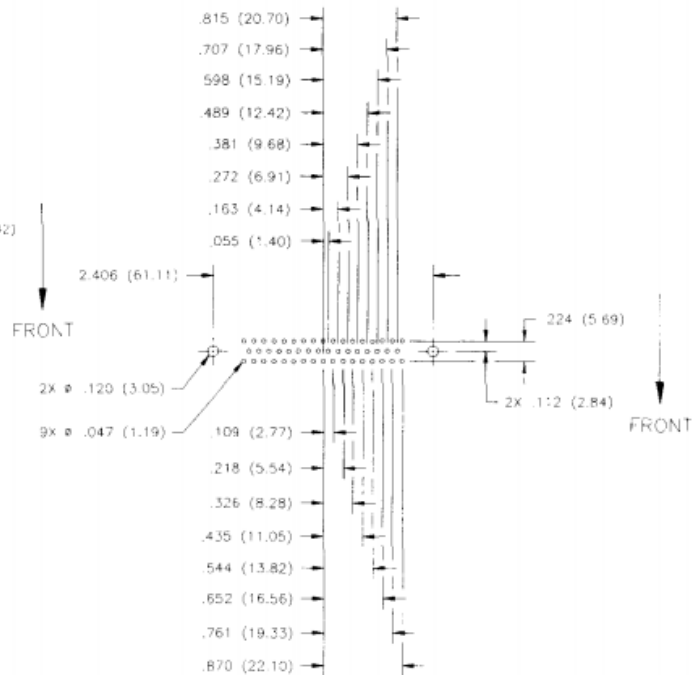
PC Board Lead Hole Size

| 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 |