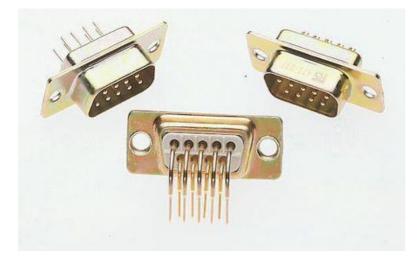


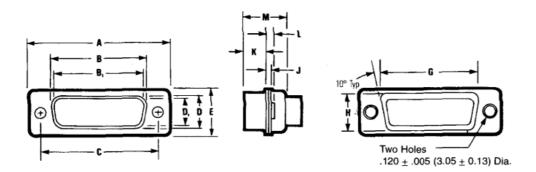
Datasheet

25 Way Right Angle Through Hole Mount PCB D-sub Connector

RS Stock 470-897



Dimensions: (mm)



Mating Side

Termination Side

| Shell | c | onnector | _ | .015" 8mm) | B <u>+</u> .0 (0.25 | | | .005" 3 mm) | C±.((0.13 | 005" 3mm) | _ | .010" 5mm) | | <u>+</u> .010" 5mm) | | .010" 5mm) |
|-------|-----------|----------|-------|---------------|------------------------|-------|-------|----------------|---------------|--------------|------|---------------|------|------------------------|------|---------------|
| Size | Positions | Туре | 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 |
| Α | 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 |
| в | 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 |
| С | 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

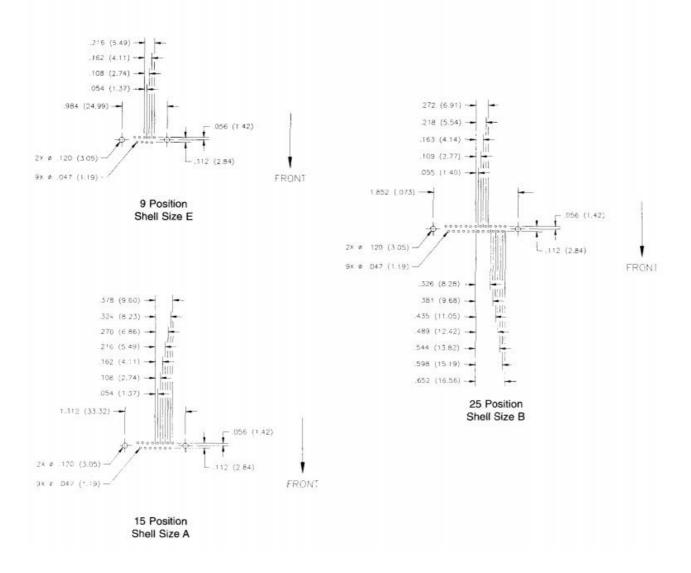
Technical Data

| Termination Options Number of Contacts Maximum Insertion & Extraction Force Performance Level Wire Accommodation Plug Contact Material Socket Contact Material Current rating | Solder Bucket, Flow Solder Straight & 90° Wire ware 9 15 25 37 50 30 50 83 123 167N 1, 2 or 3 ≤ 0.5 mm² (20AWG) Copper Alloy Copper Alloy 5A | Proof Voltage Working Voltage Contact Resistance Insulation Resistance Temperature Range Insulator Materials Shell Materials | 2.5 Kv d.c. or a.c. peak 750V d.c. or a.c. peak $5 \times 10^{-3} \Omega \max$ $\ge 5 \times 10^{9} \Omega$ -55° to +125°C GF Polyester. UL 94V-0 Rated Steel - Zinc plated with yellow chromate passivation include bright tin finish |
|---|---|--|---|
| D B Series Prefix Shell Size Mounting Type Contact Arrangement Contact Type Termination Style Shell Finish Performance Level | | Contact Arrangement Y No designation Contact Arrangement Contact Type Termination Style 90° Flow 1AON 1AIN 1A2N 1ASN 5 For reve to shell, *Please mountin Straight Flow Solder 0L2 CL2 CL2 CL2 CL2 CL2 CL2 CL2 CL2 CL2 C | 4-40 rivnut for rear panel mounting M3 rivnut for rear panel mounting with female screw locks fitted 4-40 clinch-out for rear panel mounting with locking feature for high vibration applications Float mount for rear panel mounting Universal float mount 0° 500 mm mounting hole 0° Flow Solder versions are not available with float mounts 5, 37 or 50 w Solder European Footprint without brackets with plastic brackets and keeper moulding with metal mounting brackets* with plastic brackets swith keeper moulding with keeper moulding* with keeper moulding* with keeper moulding mackets and keeper moulding racket and keeper moulding rese orientation of contacts relative . replace N with R specify rivnuts or screw locks, g type B, P, or D (Rivnuts standard) Termination 0.6mm, 5.3mm Long As OL2 with vertical Board locks 4/40 threads |
| | | Solder Bucket No desi Shell Finish T - TI - No designation - Performance Level 2 - 1 - | 0.61mm square section pins for up to 3 wraps gnation required Bright tin Bright tin with grouding indents (plugs only) Zinc plated with yellow chromate passivation. DIN Class 2 Exceeds DIN Class 2 Performance level 3 |

ENGLISH



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



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

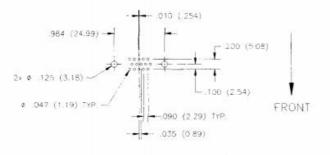
On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

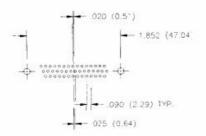
PC Board Lead Hole Size

| Termin | Hole Dia. | | | |
|---------|-----------|------|------|--|
| in | mm | in | mm | |
| .040 | 1.02 | .055 | 1.40 | |
| .030 | 0.76 | .045 | 1.14 | |
| .024025 | 0.61-0.64 | .039 | 0.99 | |



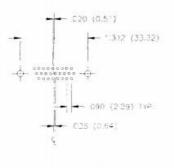
1.5 Density D-subminiature Recommended PCB Layout for Footprint (Component side shown)





15 Position - Shell Size E





26 Position - Shell Size A

62 Position - Shell Size C

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

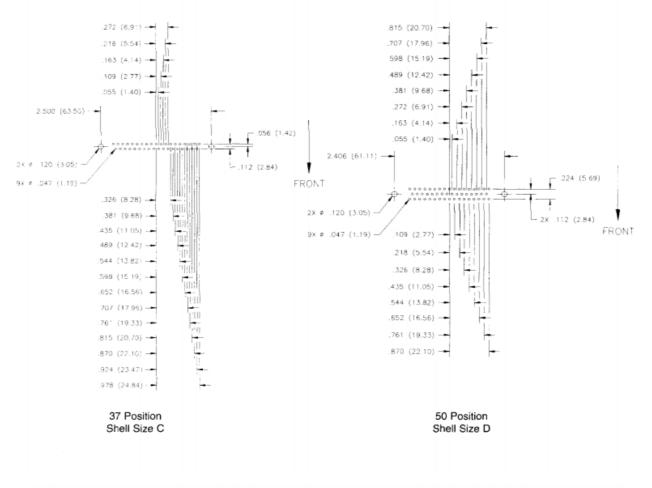
On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

PC Board Lead Hole Size

| Termin | Hole Dia. | | | |
|---------|-----------|------|------|--|
| in | mm | in | mm | |
| .040 | 1.02 | .055 | 1.40 | |
| .030 | 0.76 | .045 | 1.14 | |
| .024025 | 0.61-0.64 | .039 | 0.99 | |



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



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

| Termin | al Dia. | Hole Dia. | | | |
|---------|-----------|-----------|------|--|--|
| in | mm | in | mm | | |
| .040 | 1.02 | .055 | 1.40 | | |
| .030 | 0.76 | .045 | 1.14 | | |
| .024025 | 0.61-0.64 | .039 | 0.99 | | |