

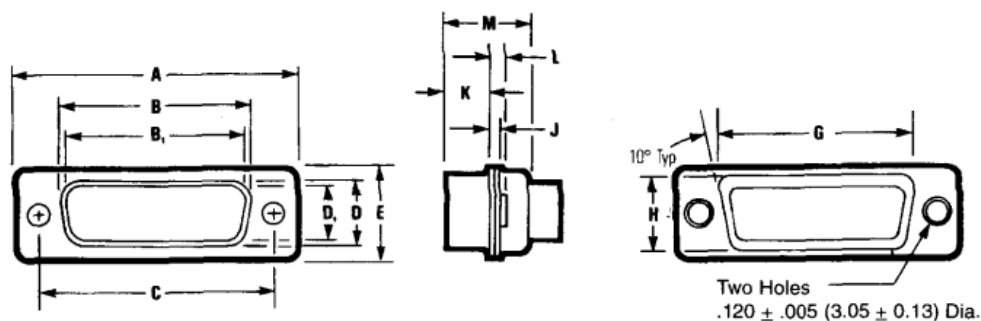
Datasheet

50 Way Straight Through Hole Mount PCB D-sub Connector, Plug

RS Stock 472-815



Dimensions: (mm)



Mating Side

Termination Side

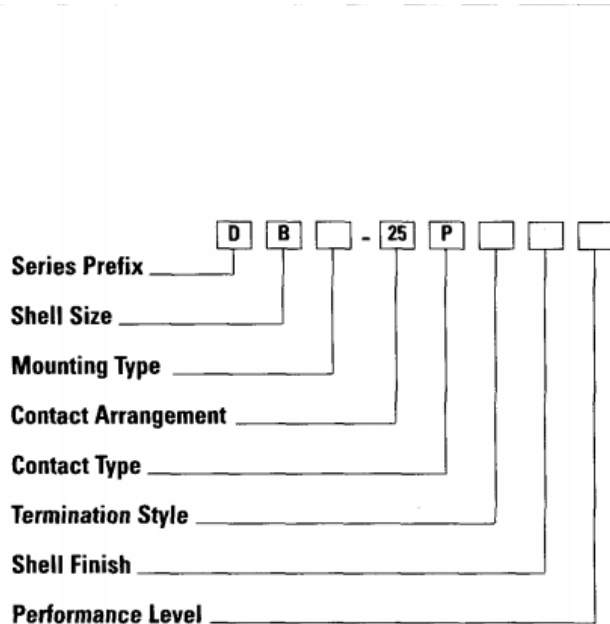
Shell Size	Positions	Connector Type	A±.015" (0.38mm)		B±.010" (0.25mm)		B ₁ ±.005" (0.13 mm)		C±.005" (0.13mm)		D±.010" (0.25mm)		D ₁ ±.010" (0.25mm)		E±.010" (0.25mm)	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	9	Plug	1.213	30.81	--	--	.666	16.90	0.984	24.99	--	--	.329	8.40	.494	12.55
		Socket	1.213	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	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

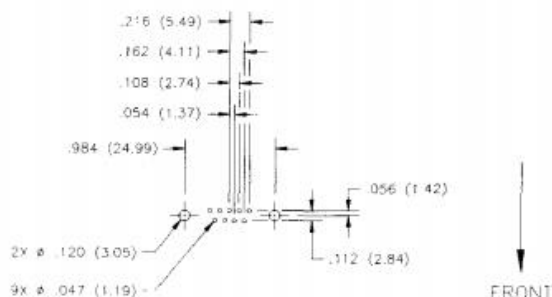
Technical Data

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		

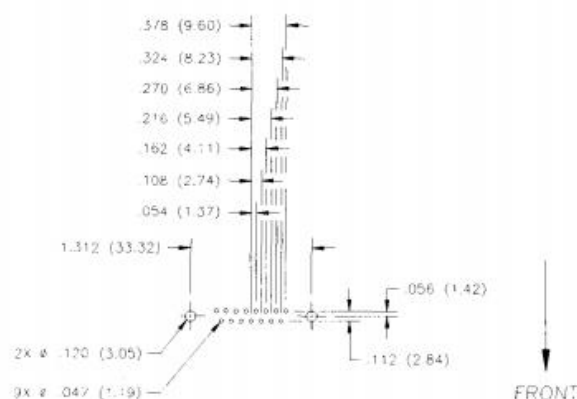


Series Prefix	D
Shell Size	E, A, B, C or D
Mounting Type	B -4-40 rivnut for rear panel mounting P -M3 rivnut for rear panel mounting D -with female screw locks fitted E -4-40 clinch-out for rear panel mounting with locking feature for high vibration applications F -Float mount for rear panel mounting Y -Universal float mount No designation -Ø 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
Straight Flow Solder	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)
Mini Wire Wrap	0L2 -Termination 0.6mm, 5.3mm Long
Solder Bucket	BL2 -As 0L2 with vertical Board locks 4/40 threads
Shell Finish	F179A -0.61mm square section pins for up to 3 wraps
No designation	No designation required
Performance Level	2 -Bright tin 1 -Bright tin with groudng indents (plugs only) No designation -Zinc plated with yellow chromate passivation. 2 -DIN Class 2 1 -Exceeds DIN Class 2 No designation -Performance level 3

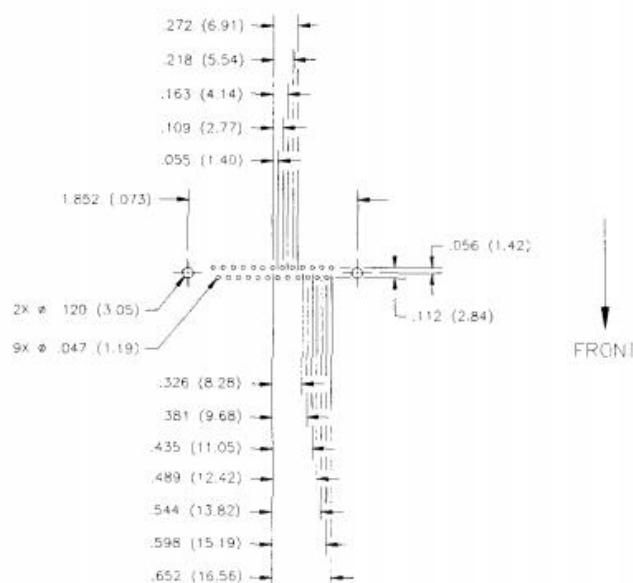
Standard Density D-subminiature Mounting Dimensions Board Layouts Footprints (Component side shown)



**9 Position
Shell Size E**



**15 Position
Shell Size A**



**25 Position
Shell Size B**

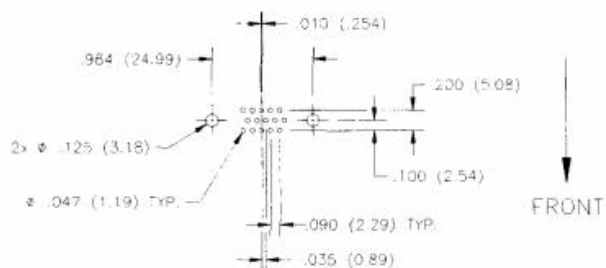
The footprints on this page are standard for all metal shell D-subminiature connectors.

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

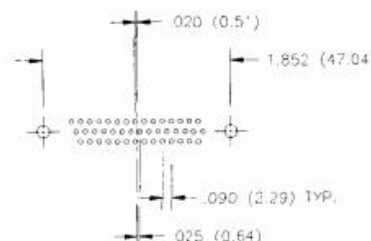
PC Board Lead Hole Size

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

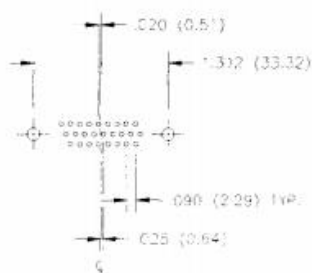
1.5 Density D-subminiature Recommended PCB Layout for Footprint (Component side shown)



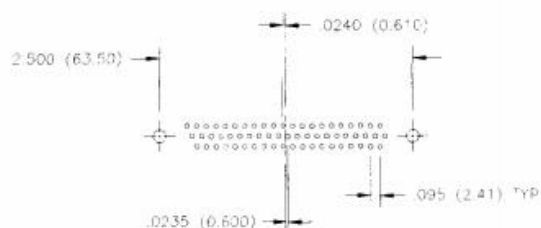
15 Position - Shell Size E



44 Position - Shell Size B



26 Position - Shell Size A



62 Position - Shell Size C

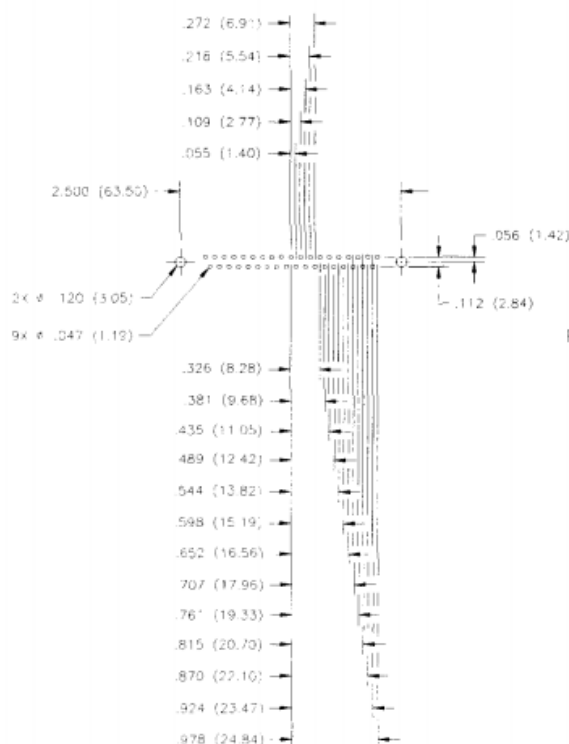
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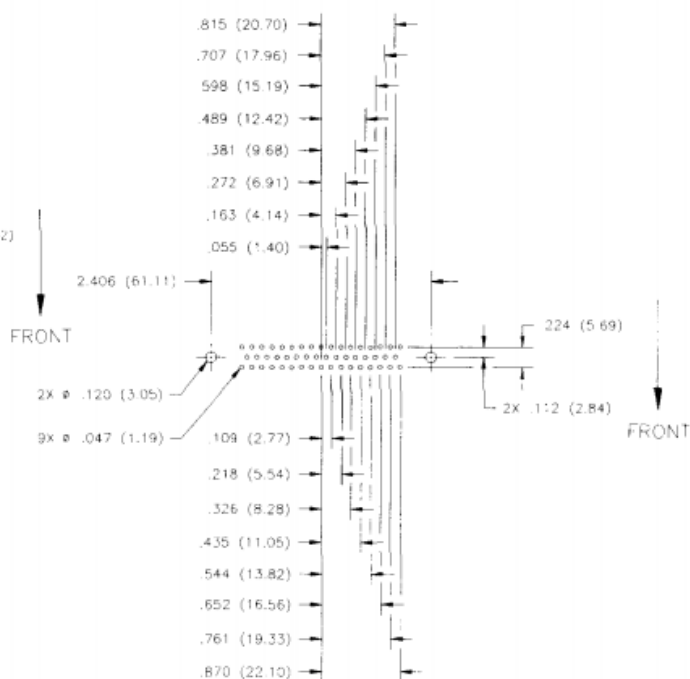
PC Board Lead Hole Size

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