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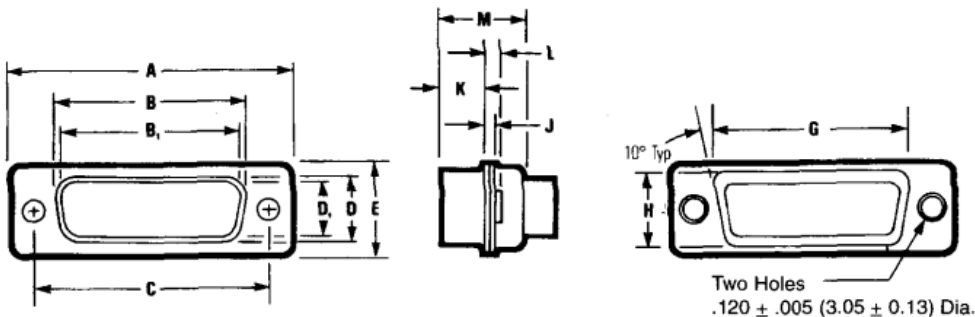
## Datasheet

# Straight Panel Mount Solder D-sub Connector, Socket, 37 Way, 5A

RS Stock 472-887



Dimensions: (mm)



Mating Side

Termination Side

Shell Size	Positions	Connector Type	A $\pm$ .015" (0.38mm)		B $\pm$ .010" (0.25mm)		B <sub>1</sub> $\pm$ .005" (0.13 mm)		C $\pm$ .005" (0.13mm)		D $\pm$ .010" (0.25mm)		D <sub>1</sub> $\pm$ .010" (0.25mm)		E $\pm$ .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

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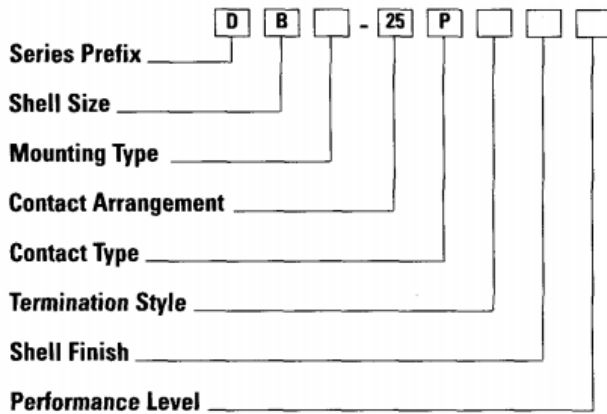
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### Features

- 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

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

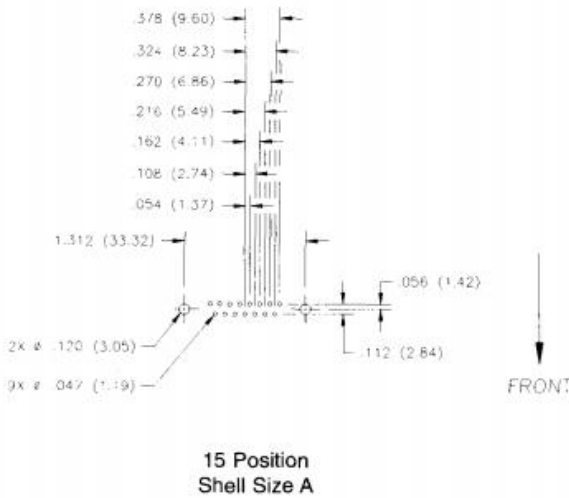
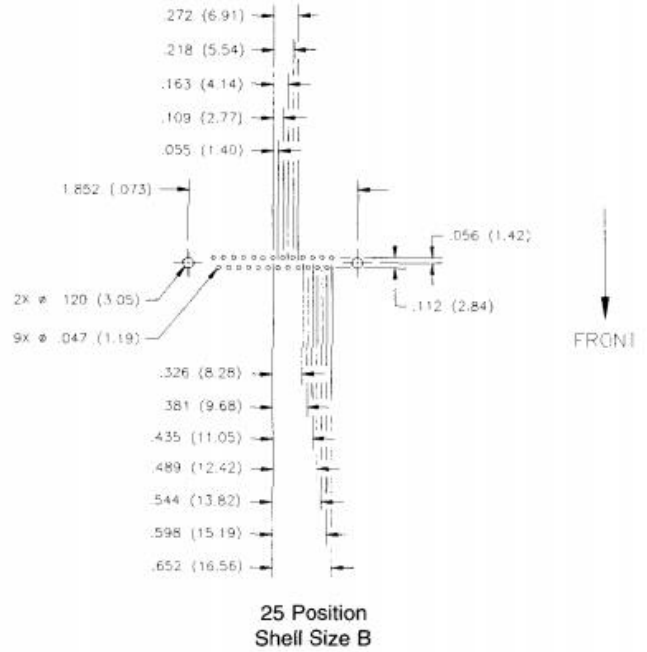
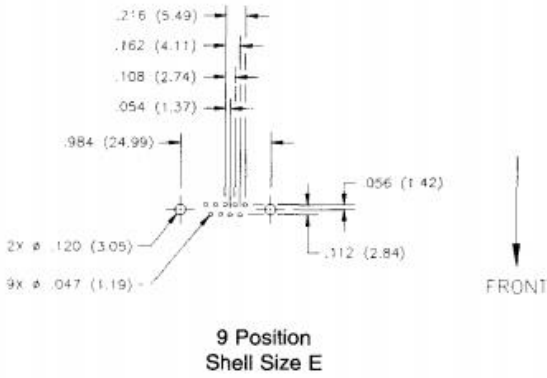


<b>Series Prefix</b>	<b>D</b>
<b>Shell Size</b>	<b>E, A, B, C or D</b>
<b>Mounting Type</b>	<b>B</b> -4-40 rivnut for rear panel mounting <b>P</b> -M3 rivnut for rear panel mounting <b>D</b> -with female screw locks fitted <b>E</b> -4-40 clinch-out for rear panel mounting with locking feature for high vibration applications <b>F</b> -Float mount for rear panel mounting <b>Y</b> -Universal float mount <b>No designation</b> - $\varnothing$ 3.05 mm mounting hole 90° Flow Solder versions are not available with float mounts
<b>Contact Arrangement</b>	<b>9, 15, 25, 37 or 50</b>
<b>Contact Type</b>	<b>P or S</b>
<b>Termination Style</b>	90° Flow Solder European Footprint
<b>1A0N</b>	-without brackets
<b>1A1N</b>	-with plastic brackets
<b>1A2N</b>	-with plastic brackets and keeper moulding
<b>1A3N</b>	-with metal mounting brackets*
<b>1AEN</b>	-with earthing straps on plastic brackets with keeper moulding*
<b>1ASN</b>	-with boardlock, earthing straps, plastic bracket and keeper moulding*
<b>For reverse orientation of contacts relative to shell, replace N with R</b>	
*Please specify rivnuts or screw locks, mounting type B, P, or D (Rivnuts standard)	
<b>Straight Flow Solder</b>	<b>QL2</b> -Termination 0.6mm, 5.3mm Long <b>BL2</b> -As QL2 with vertical Board locks 4/40 threads
<b>Mini Wire Wrap</b>	<b>F179A</b> -0.61mm square section pins for up to 3 wraps
<b>Solder Bucket</b>	<b>No designation required</b>
<b>Shell Finish</b>	<b>T</b> -Bright tin <b>TI</b> -Bright tin with grounding indents (plugs only) <b>No designation</b> -Zinc plated with yellow chromate passivation.
<b>Performance Level</b>	<b>2</b> -DIN Class 2 <b>1</b> -Exceeds DIN Class 2 <b>No designation</b> -Performance level 3

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### 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.

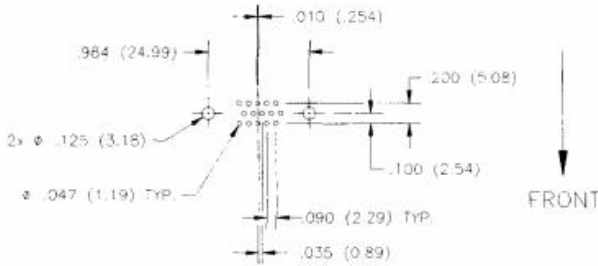
#### PC Board Lead Hole Size

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

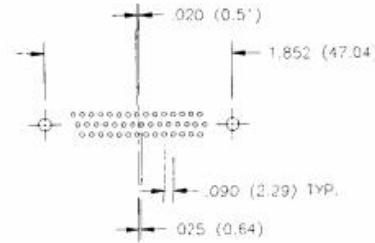
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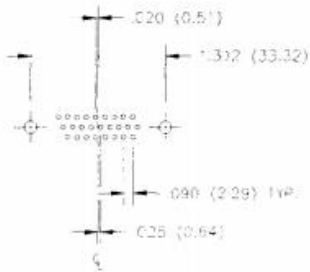
### 1.5 Density D-subminiature Recommended PCB Layout for Footprint (Component side shown)



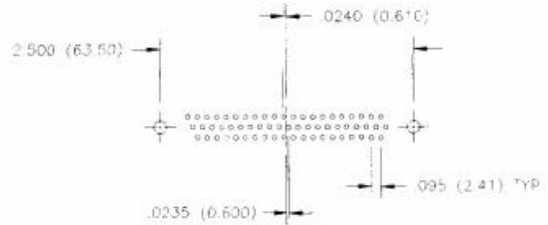
**15 Position - Shell Size E**



**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.

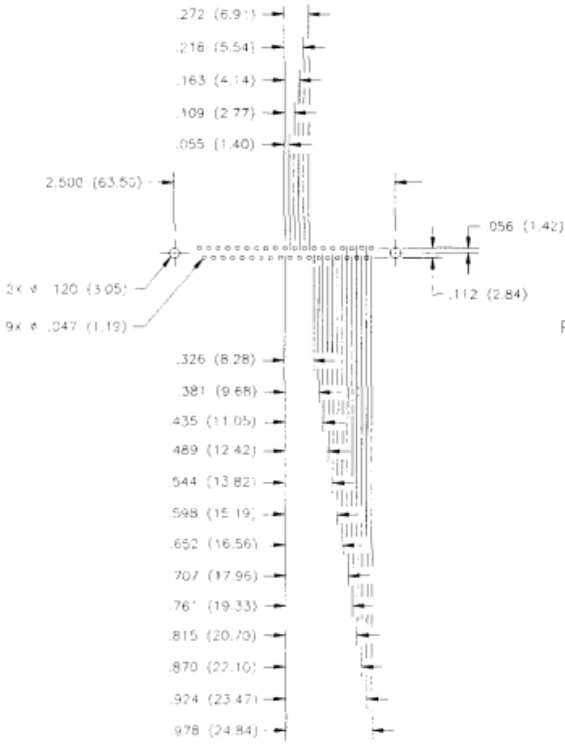
On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

#### PC Board Lead Hole Size

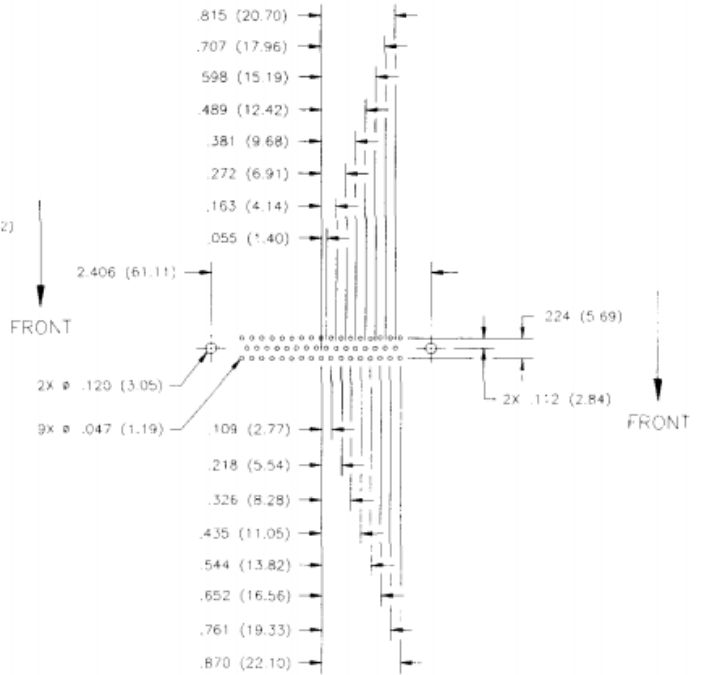
Terminal Dia.		Hole Dia.	
in	mm	in	mm
.040	1.02	.055	1.40
.030	0.76	.045	1.14
.024-.025	0.61-0.64	.039	0.99

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## 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