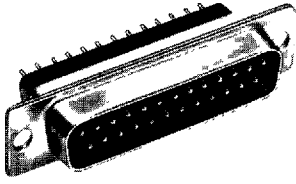
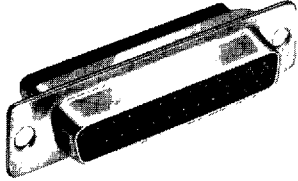


D-Subminiature Commercial Metal Shell

.109" (2.77mm) Density Dip Solder Econo D



Plug



Socket

Features

- Available in 5 connector sizes: 9, 15, 25, 37, and 50, with straight or right angle dip solder tails, both plug and socket styles
- Longer rear insulator provides integral stand-off from PC board
- Intermateable with all D-Subminiature connectors of comparable pin count and complying dimensionally with MIL-C-24308
- Variety of shell styles available
- Grounding indents available on tin plated plugs
- UL Recognized file no. E19071

Performance Data

Materials

Insulation Material: UL 94V-0 rated molded glass-filled nylon, black

Contact Material:

Plug Contacts: Brass (machined)
Socket Contacts: Phosphor bronze (machined)

Contact Plating: Gold flash over nickel (For optional 30 µinch gold plating consult factory)

Shell Material: Steel

Shell Plating: Zinc with yellow chromate coating or bright tin

Electrical Characteristics

Withstanding Voltage: 1000 VAC rms (@ sea level)

Current Rating: 5 Amps

Contact Resistance: 2.7 Milliohms maximum

Insulation Resistance: 5000 Megohms minimum

Mechanical Characteristics

Individual Contact Insertion and Separation Force: 0.7 oz. (20g) minimum; 12 oz. (341g) maximum

Environmental Characteristics

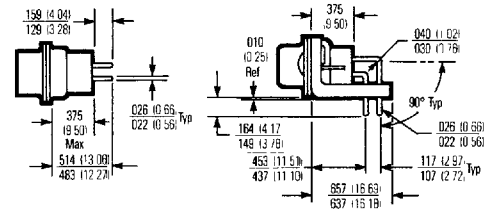
Shock: Exceeds test requirements of MIL-STD-202D, Method 213, Condition G

Operating Temperature: -65°C to +125°C

Vibration: Exceeds requirements of MIL-STD-202D, Method 204, Condition D

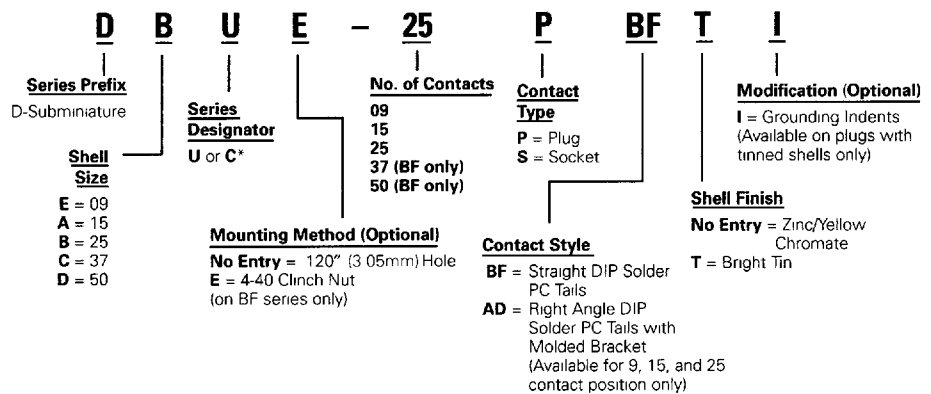
Humidity: Exceeds requirements of MIL-STD-202D, Method 106

Dimensions



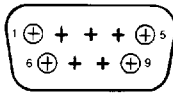
For standard shell dimensions and panel cutouts, see pages 5 and 6

Ordering Information

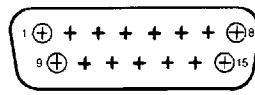


NOTE: D*U and D*C reference information is given in the ordering information section. Both styles are UL recognized and there is no difference between U and C connectors except for the old reference number. Use the new part number when ordering these connectors. (D*U)

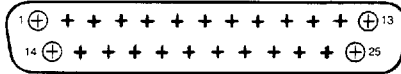
Standard Density Plug Inserts



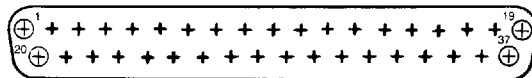
Shell Size E
(9 Position)



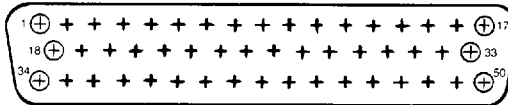
Shell Size A
(15 Position)



Shell Size B
(25 Position)

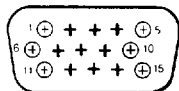


Shell Size C
(37 Position)

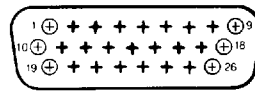


Shell Size D
(50 Position)

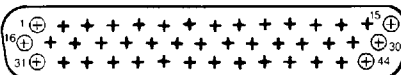
HTD 1.5 Density Plug Inserts



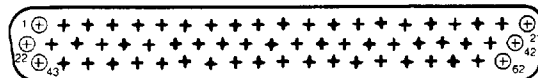
Shell Size E
(15 Position)



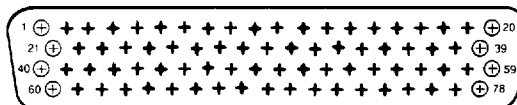
Shell Size A
(26 Position)



Shell Size B
(44 Position)

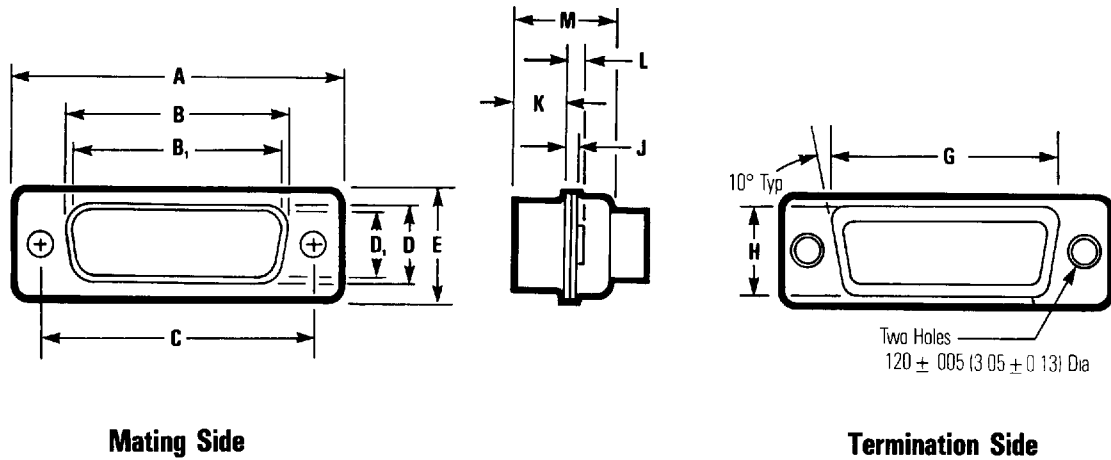


Shell Size C
(62 Position)



Shell Size D
(78 Position)

NOTE: Mating face of plug is shown, receptacle is mirror image.



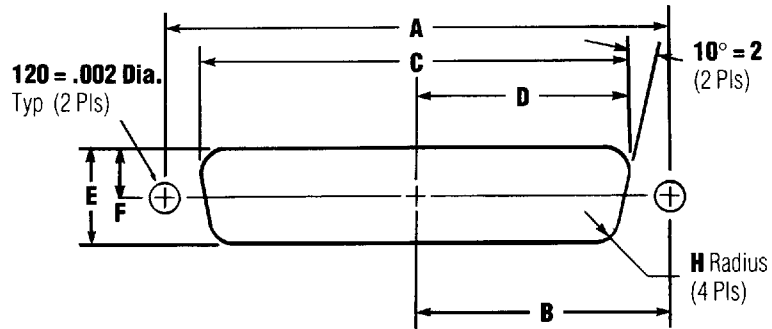
Dimensions

Shell Size	Connector Type	A ± .015" (0.38mm)		B ± .010" (0.25mm)		B ₁ ± .005" (0.13mm)		C ± .005" (0.13mm)		D ± .010" (0.25mm)		D ₁ ± .010" (0.25mm)		E ± .015" (0.38mm)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	Plug	1.213	30.81	—	—	.666	16.90	.0984	24.99	—	8.40	.329	—	.494	12.55
	Socket	1.213	30.81	.640	16.26	—	—	.0984	24.99	.308	—	—	.782	.494	12.55
A	Plug	1.541	39.14	—	—	.994	25.30	1.312	33.32	—	8.40	.329	—	.494	12.55
	Socket	1.541	39.14	.968	24.59	—	—	1.312	33.32	.308	—	—	.782	.494	12.55
B	Plug	2.088	53.04	—	—	1.534	39.00	1.852	47.04	—	8.40	.329	—	.494	12.55
	Socket	2.088	53.04	1.508	38.30	—	—	1.852	47.04	.308	—	—	.782	.494	12.55
C	Plug	2.729	69.32	—	—	2.182	55.40	2.500	63.50	—	8.40	.329	—	.494	12.55
	Socket	2.729	69.32	2.156	54.76	—	—	2.500	63.50	.308	—	—	.782	.494	12.55
D	Plug	2.635	66.93	—	—	2.079	52.80	2.406	61.11	—	11.07	.436	—	.605	15.37
	Socket	2.635	66.93	2.062	52.34	—	—	2.406	61.11	.420	—	—	10.67	.605	15.37

Shell Size	Connector Type	G ± .010" (0.25mm)		H ± .010" (0.25mm)		J ± .010" (0.25mm)		K ± .010" (0.25mm)		L ± .010" (0.25mm)		M ± .010" (0.25mm)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	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	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	.243	6.17	.045	1.14	.429	10.92
B	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	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	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. B₁ and D₁ are inside dimensions for plug

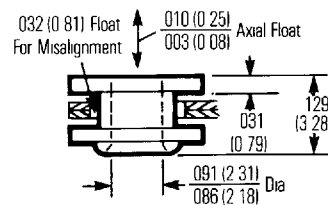
Panel Mounting Specifications



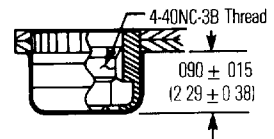
Dimensions

Shell Size	Mounting Method Front/Rear Panel	Dimensions (inches)						
		A	B	C	D	E	F	H
E	Front	0.98	0.49	0.87	0.44	0.51	0.26	0.08
	Rear	0.98	0.49	0.81	0.40	0.45	0.23	0.13
A	Front	1.31	0.66	1.10	0.60	0.51	0.26	0.08
	Rear	1.31	0.66	1.13	0.57	0.45	0.23	0.13
B	Front	1.85	0.93	1.74	0.87	0.51	0.26	0.08
	Rear	1.85	0.93	1.67	0.84	0.45	0.23	0.13
C	Front	2.50	1.25	2.39	1.20	0.51	0.26	0.08
	Rear	2.50	1.25	2.33	1.16	0.45	0.23	0.13
D	Front	2.41	1.20	2.30	1.15	0.62	0.31	0.08
	Rear	2.41	1.20	2.22	1.11	0.56	0.28	0.13

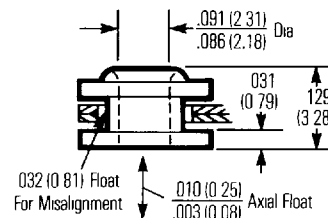
Float Bushing



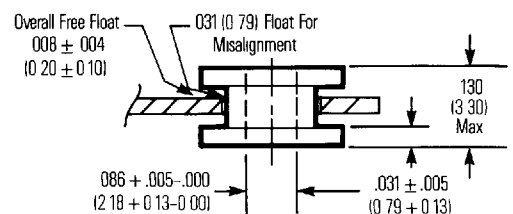
4-40 Clinch Nut



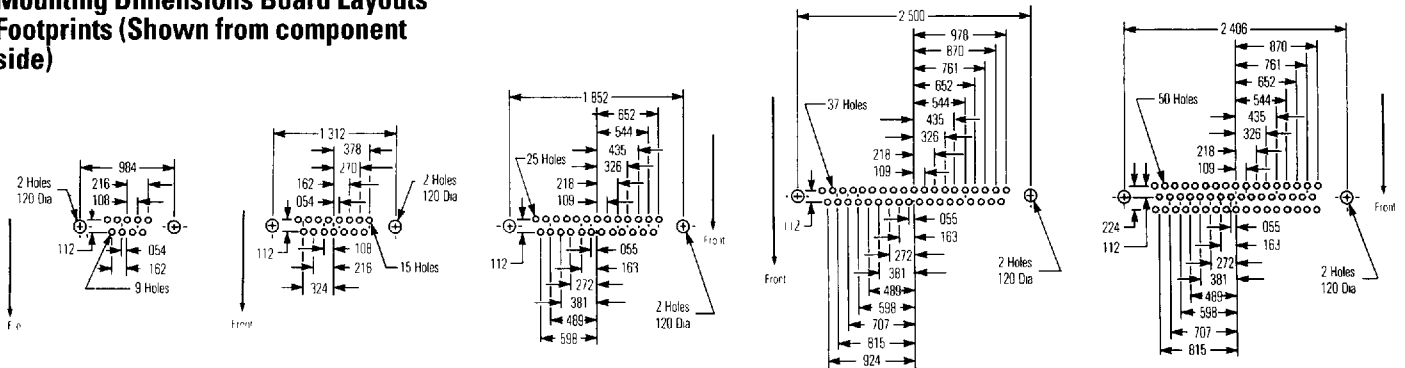
Reverse Float Bushing



Floating Dual Bushing

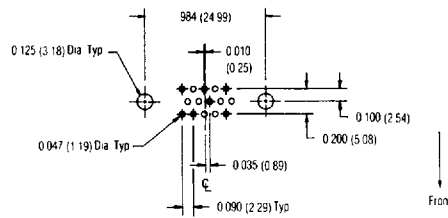


Standard Density D-Subminiature Mounting Dimensions Board Layouts Footprints (Shown from component side)

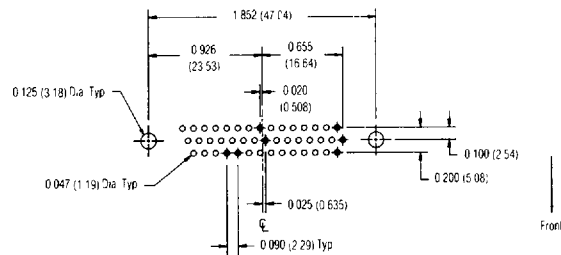


1.5 Density D-Subminiature Recommended PCB Layout For Footprint (Component Side Shown)

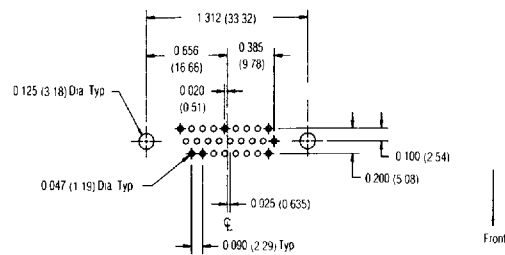
15 Position PCB Layout



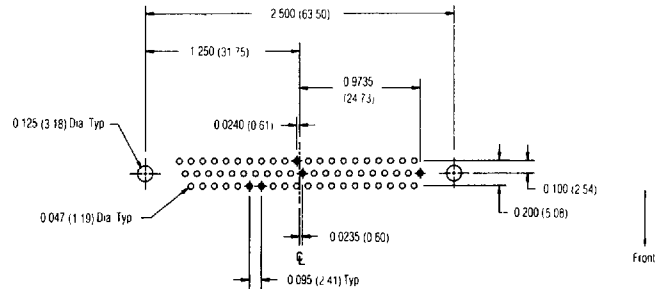
44 Position PCB Layout



26 Position PCB Layout



62 Position PCB Layout



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	0.61	039	0.99