

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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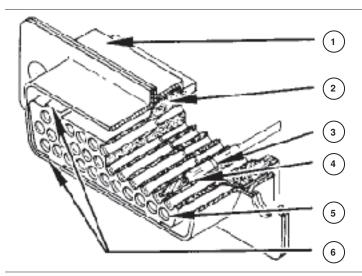


The Double Density D is a rectangular connector in the popular D Subminiature shell configuration featuring double the contact density in the same insert area. The Double Density D connector can thus accommodate up to 100 contacts instead of 50.

This double contact density is achieved by using field-proven, highly reliable Centipin™/Centisocket™ contacts on .075 (1.91) centers, in the positive contact alignment design. In this design contact

tacts are recessed in the insulator and the more Contacts are crimp removable type. rugged Centisocket™ contacts are exposed. This The Double Density D connector is available in the reversal of positions, and the chamfered-entry of five popular shell and insert sizes accommodating the sockets, assures positive mating even under up to 100 contacts. These connnectors mate excluservere misalignment conditions. The contacts are sively with other Double Density D connectors. A retained in the monobloc insulator by a resilient wide range of accessories can be used, including internal shoulder that snaps into a locking groove in junction shells, potting cups, switching shells, guide the contact. The chamfered front of the contact will pin plates, and dust caps.

positions are reversed; the flexible Centipin™ con- not damage the internal shoulder in the insulartor.



1. STANDARD D HARDWARE-

Including full range of D Subminiature accessories

2. ONE PIECE TYPE INSULATOR-

glass-filled nylon material

3. CONTACT RETENTION-

thermoplastic internal shoulder snaps into a locking groove in the contact.

Retention Force: 8 lbs. min. initially, 4 lbs. min. after 10 cycle.

4. TWIST PIN CONTACTS-

seven outer wiping surfaces assure electrical continuity even under severe shock and vibration

5. POSTIVE CONTACT ALIGNMENT-

flexible pin is recessed in insulator cavity and rugged socket is exposed

6. GUIDE-IN KEYS AND KEYWAYS-

assure alignment during mating and prevent scooping

How to Order

SHELL SIZE

E, A, B, C and D

Omit if not required

FLOAT MOUNTS

	2D	A	F	31	Р	BR	****
SERIES							
SHELL SIZE							
FLOAT MOUNTS —							
CONTACT ARRANGEMENT———————————————————————————————————							
CONTACT TYPE							
TERMINATION —							
MODIFICATION —							

NOTE: Connectors may be ordered less contacts by adding the mod callout "FO" at enc of number. Contacts are then supplied in bulk form. for type of contacts and installation/assembly tools refer to page 13.

CONTACT ARRANGEMENT

19. 31. 52. 79 and 100

CONTACT TYPE*

P - Pin

S - Socket

TERMINATION

BR - 90° PCB mounting

(For BR Series use "P" to designate jackpost)

2D F

F171 - Jackpost assembly

F172 - Standard jackscrew

F173 - Low profile jackscrew

For other modifications consult factory

Performance and Material Specifications

2D - Double Density D - ITT Cannon prefix

WEIGHT Part Number Weiaht (in gr.) Weight (in oz.) by shell size Less With Contacts Less With Contacts 2DF19P 4 05 5.02 142 177 2DE19S 3.75 5.17 .133 .182 2DA31P .183 5.20 6.78 .239 2DA31S 4.90 .173 .255 2DB52P 8 75 11 40 308 .402 2DB52S 11.05 7.15 .252 .390 2DC79P 11 70 15 73 413 555 2DC79S 9.70 15.62 342 .551 2DD100P 12.85 17.95 .453 .633 2DD100S 10.95 18.45 .386 .651

MATERIALS AND FINISHES Steel, cadmium plated with yellow chromate supplementary coating Mounting Hardware Stainless steel and Float Mounts Insulator Glass-filled nylon Contacts Copper alloy, gold plate Alternate finish. - A106 Gold over brass Modification Code A156 Gold over brass A197 Tin/Lead over steel *Brass non-magnetic also available

MECHANICAL FEATURES							
Sizes	- Five shell sizes: E, A, B, C, and D						
Coupling	- Friction or jackscrew						
Polarization	- Keystone-shaped shells						
Contact Spacing	075 (1.91)						
Contact Termination	- Crimp snap-in						

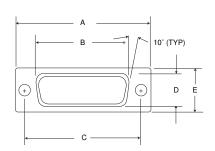


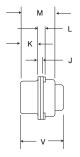
Dimensions are shown in inches (millimeters). Dimensions subject to change

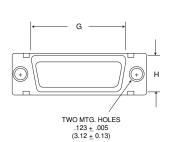
^{*} Accommodates AWG #26 thru #22

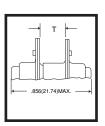
Standard Shell









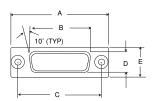


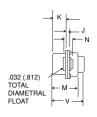
	т
Part Number	+ .020 (0.51)
by Shell Size	000 (0.00)
2DE19P	.250 (6.35)
2DE19S	.250 (6.35)
2DA31P	.250 (6.35)
2DA31S	.250 (6.35)
2DB52P	.236 (5.99)

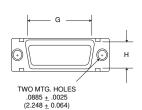
	т
Part Number	+ .020 (0.51)
by Shell Size	000 (0.00)
2DB52S	.236 (5.99)
2DC79P	.236 (5.99)
2DC79S	.236 (5.99)
2DD100P	.236 (5.99)
2DD100S	.236 (5.99)

Float Mount





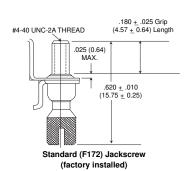


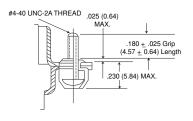


Part Numbe	r A	В	С	D	E	G	Н	J	K	L	M	N	V
by Shell Siz	e <u>+</u> .015 (0.38)	<u>+</u> .010 (0.25)	<u>+</u> .010 (0.25)	<u>+</u> .010 (0.25)	<u>+</u> .015 (0.38)	<u>+</u> .010 (0.25)	Max.						
2DE19P	1.213 (30.81)	.697 (17.70)	.984 (24.99)	.360 (9.14)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.036 (.914)	.236 (5.99)	.055 (1.40)	.422 (10.72)	.120 (3.05)	.555 (14.10)
2DE19S	1.213 (30.81)	.640 (16.26)	.984 (24.99)	.308 (7.82)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DA31P	1.541 (39.14)	1.025 (26.03)	1.312 (33.32)	.360 (9.14)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.036 (.914)	.236 (5.99)	.055 (1.40)	.422 (10.72)	.120 (3.05)	.555 (14.10)
2DA31S	1.541 (39.14)	.968 (24.58)	1.312 (33.32)	.308 (7.82)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DB52P	2.088 (53.03)	1.583 (40.21)	1.852 (47.04)	.378 (9.60)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DB52S	2.088 (53.03)	1.508 (38.30)	1.852 (47.04)	.308 (7.82)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DC79P	2.729 (69.31)	2.231 (56.67)	2.500 (63.50)	.378 (9.60)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DC79S	2.729 (69.31)	2.156 (54.76)	2.500 (63.50)	.308 (7.82)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DD100P	2.635 (66.92)	2.127 (54.02)	2.406 (61.11)	.484 (12.29)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DD100S	2.635 (66.92)	2.062 (52.37)	2.406 (61.11)	.420 (10.67)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)

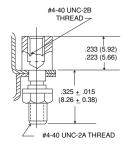
For shell with float mounts, add letter F after shell size, e.g., 2DEF19P.

Jackscrew/Jackpost Asembly





Low Profile (F173) Jackscrew (factory installed)

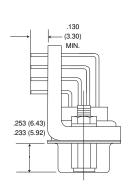


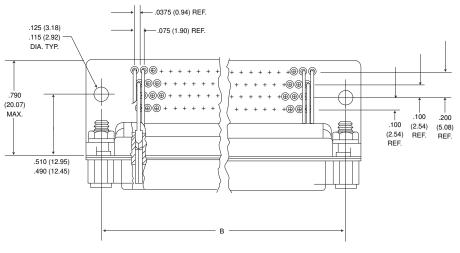
Jackpost (F171)
Front Panel Connector Mounting Only

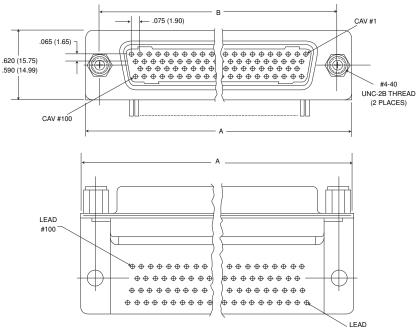


90° PCB Mounting - 4 Row









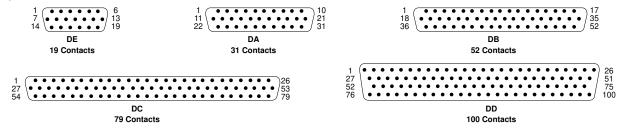
Part Number	A	B	C
by Shell Size	<u>+</u> .015 (0.38)	<u>+</u> .010 (0.25)	Max.
2DD100SBRP	2.635 (66.93)	2.406 (61.11)	.790 (20.07)

Contact Arrangements - Page 281



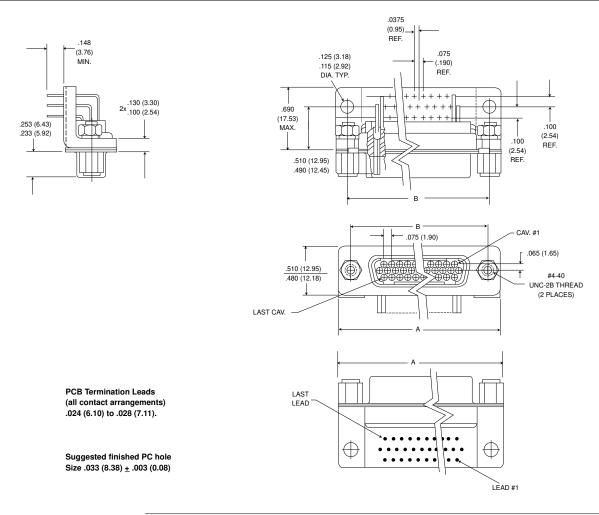
Contact Arrangements

All views are pin front face. Use reverse order for socket side.



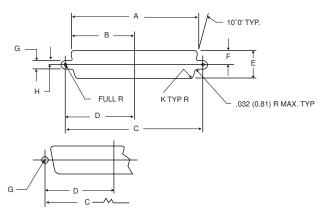
Cavity identification numbers are shown for reference only and do not appear on insulator front face. However they do appear on rear of insulator.

90° PCB Mounting - 3 Row



Part Number	Α	В	С
by Shell Size	<u>+</u> .015 (0.38)	<u>+</u> .010 (0.25)	Max.
2DE19SBRP	1.215 (30.86)	.984 (24.99)	.690 (17.53)
2DA31SBRP	1.540 (39.12)	1.312 (33.32)	.690 (17.53)
2DB52SBRP	2.090 (53.09)	1.852 (47.04)	.690 (17.53)
2DC79SBRP	2.730 (69.34)	2.500 (63.50)	.690 (17.53)

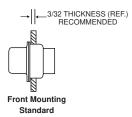
Panel Cutouts



Conn.	Mtg. Method	A <u>+</u> .005 (0.13)	B <u>+</u> .005 (0.13)	C <u>+</u> .005 (0.13)	D <u>+</u> .005 (0.13)	E <u>+</u> .005 (0.13)	F <u>+</u> .005 (0.13)	G <u>+</u> .002 (0.05)	H <u>+</u> .002 (0.05)	K <u>+</u> .002 (0.05)
2DE	Front	.874 (22.20)	.437 (11.10)	.984 (24.99)	.492 (12.50)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
	Rear	.806 (20.47)	.403 (10.24)	.984 (24.99)	.492 (12.50)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
2DA	Front	1.202 (30.53)	.601 (15.26)	1.312 (33.32)	.656 (16.66)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
	Rear	1.134 (28.80)	.567 (14.40)	1.312 (33.32)	.656 (16.66)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
2DB	Front	1.743 (44.27)	.872 (22.15)	1.852 (47.04)	.926 (23.52)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
	Rear	1.674 (42.52)	.837 (21.26)	1.852 (47.04)	.926 (23.52)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
2DC	Front	2.391 (60.73)	1.196 (30.38)	2.500 (63.50)	1.250 (31.75)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
	Rear	2.326 (59.08)	1.163 (29.54)	2.500 (63.50)	1.250 (31.75)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
2DD	Front	2.297 (58.34)	1.149 (29.18)	2.406 (61.11)	1.203 (30.56)	.623 (15.82)	.312 (7.92)	.120 (3.05)	.060 (1.52)	.083 (2.11)
	Rear	2.218 (56.34)	1.109 (28.17)	2.406 (61.11)	1.203 (30.56)	.555 (14.10)	.278 (7.06)	.120 (3.05)	.060 (1.52)	.132 (3.35)

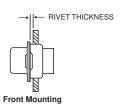
For contact part numbers, termination tooling and assembly see pages 288-290.

Panel Mounting

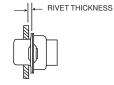




Rear Mounting Standard



Float



Rear Mounting Float