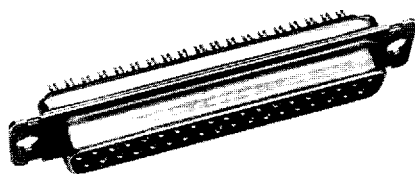


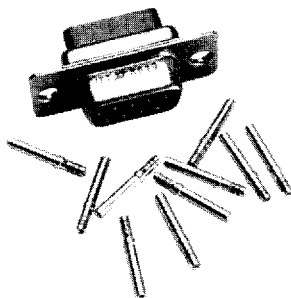
High Reliability, Military D Subminiature, & Non-Magnetic/No-Outgas

Solder Cup



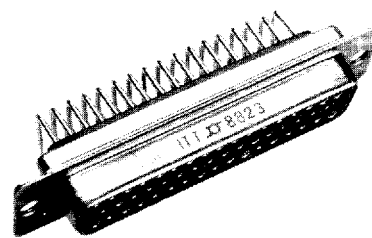
(See page 333)

Crimp



(See page 334-335)

Printed Circuit



(See page 336-338)

Performance and Material Specifications

MATERIALS AND FINISHES

	Standard		Military	
	Material	Finish	Material	Finish
Shell	Steel per ASTM A-620	Yellow chromate over cadmium QQ-P-416 Type II Class 2	Steel per ASTM A-620	Yellow chromate over cadmium QQ-P-416 Type II Class 2
Insulator	Diallyl phthalate glass-filled per MIL-M-14, type SDG-F, color green	—	Diallyl phthalate glass-filled per MIL-M-14, type SDG-F, color green	—
Contact	Copper alloy	Gold over nickel	Copper alloy Crimp socket has stainless steel hood passivated.	Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550 Hood: Passivated
Float Mount Hardware	Stainless steel	Passivate per QQ-P-35	Stainless steel	Passivate per QQ-P-35

PERFORMANCE SPECIFICATIONS

Wire Accommodation (AWG)	Solder – #20 Max. Crimp – #18-#30 Max.
Current Rating	#20: 5 Amp
Temperature Rating	–65°C to +150°C
Contact Resistance After Salt Spray, Millivolt Max.	55 @ 7.5 Amp test current

See pages 339 and 340 for complete M24308 cross reference.

DIELECTRIC WITHSTANDING VOLTAGE

	90° and Straight (Solder/Crimp)			
	Altitude (feet/m)			
	Sea Level	20,000/6,096	50,000/15,240	70,000/21,336
Average Flashover	1700/1500	1000/1000	650/500	500/500
Test	1250/1000	750/650	475/325	375/325

All voltage figures are rms AC 60 rms cps, measured at approximately +25°C, 50% rh. For additional performance specifications refer to MIL-C-24308 Test Extracts on page 385.

Non-Magnetic/No-Outgas Options

Suffix Code	Residual Magnetism	Shell Material (Finish)	Desired Results
NMB	200 Gamma Residual Magnetism Insulator. (Diallyl phthalate per MIL-M-14 type SDG-F, color white.)	Brass Shells Per QQ-B-613 (Yellow Chromate over Cadmium per QQ-P-416, Type II, Class 2.)	Non-Magnetic No-Outgas
NMB-K52	200 Gamma Residual Magnetism Insulator. (Diallyl phthalate per MIL-M-14 type SDG-F, color white.)	Brass Shells Per QQ-B-613 (Gold over Copper per MIL-G-45204, Type II, Grade C, Class 1 over copper per MIL-C-14550.)	Non-Magnetic No-Outgas

Note: Look for the **NM** symbol for ordering information.

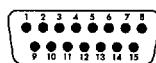
Contact Arrangements

Face View Pin Insert

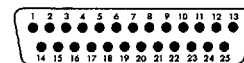
Shell Size
Contact Arrangement
Contact Size



E
9
#20



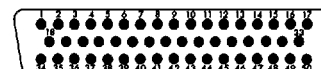
A
15
#20



B
25
#20



C
37
#20

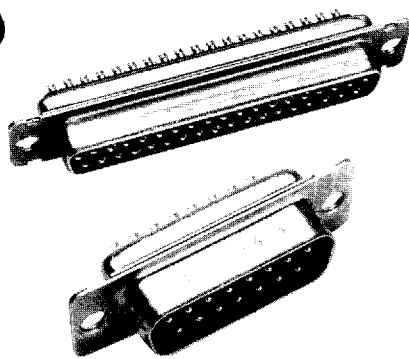


D
50
#20

Shell Size
Contact Arrangement
Contact Size

D Subminiature Connectors

How to Order High Rel – Solder Cup Connectors (contacts are non-removable)



Mounting Options Available:

- 4-40 Clinch Nut – Add "E" to Part Number After "M".
- 4-40 Float Mount – Add "Y" to Part Number After "M".

(Can be used in front or rear panel mount applications)

Example: DBME25S DEMY9P
DBMME25S DEMMY9P

Performance Specifications – Page 332

Receptacles (Includes Socket Contacts) With .120" Through Mounting Holes

Number of Contacts (Shell Size)	Standard	Military Version	M24308 Cross Reference
9 (E)	DEM9S	DEMM9S	M24308/1-1
15 (A)	DAM15S	DAMM15S	M24308/1-2
25 (B)	DBM25S	DBMM25S	M24308/1-3
37 (C)	DCM37S	DCMM37S	M24308/1-4
50 (D)	DDM50S	DDMM50S	M24308/1-5

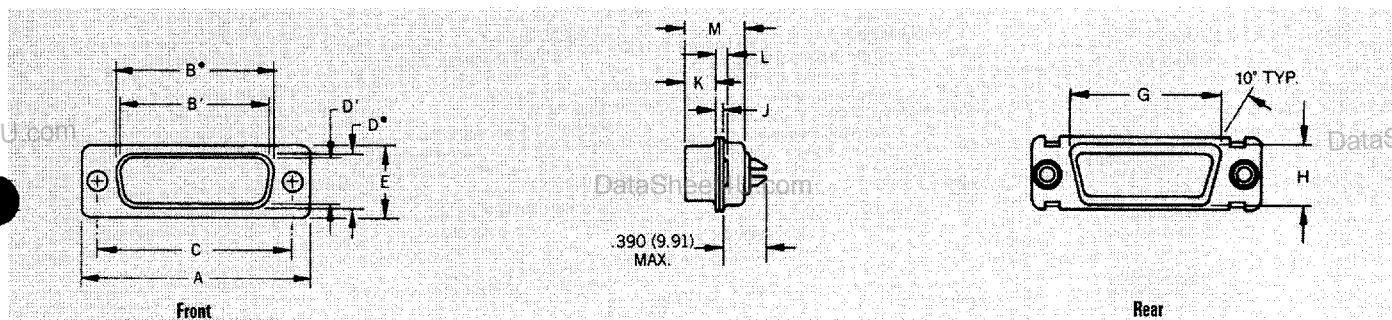
Plugs (Includes Pin Contacts) With .120" Through Mounting Holes

Number of Contacts (Shell Size)	Standard	Military Version	M24308 Cross Reference
9 (E)	DEM9P	DEMM9P	M24308/3-1
15 (A)	DAM15P	DAMM15P	M24308/3-2
25 (B)	DBM25P	DBMM25P	M24308/3-3
37 (C)	DCM37P	DCMM37P	M24308/3-4
50 (D)	DDM50P	DDMM50P	M24308/3-5

NM Non-Magnetic/No-Outgas – Add desired suffix code with desired option to end of part number.

Example: DEM9PSNMB
DEM9PSNMB-K52

Dimensions – High Rel Solder Cup Connectors

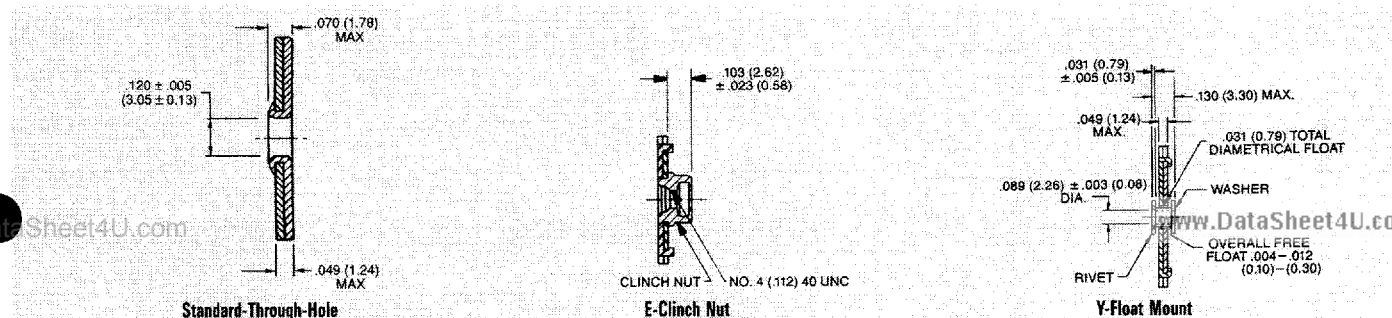


Part Number by Shell Size	A ± .015 (0.38)	B* ± .005 (0.13)	B' ± .005 (0.13)	C ± .005 (0.13)	D ± .005 (0.13)	D' ± .005 (0.13)	E ± .015 (0.38)	G ± .010 (0.25)	H ± .010 (0.25)	J ± .010 (0.25)	K ± .006 (0.15)	L ± .013 (0.33)	M ± .010 (0.25)
DEM-9P	1.213 (30.81)	—	.666 (16.91)	.984 (24.99)	—	.329 (8.36)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.030 (0.76)	.235 (5.94)	.048 (1.22)	.422 (10.72)
DEM-9S	1.213 (30.81)	.643 (16.33)	—	.984 (24.99)	.311 (7.90)	—	.494 (12.55)	.759 (19.28)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)
DAM-15P	1.541 (39.14)	—	.994 (25.24)	1.312 (33.32)	—	.329 (8.36)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.030 (0.76)	.235 (5.94)	.048 (1.22)	.422 (10.72)
DAM-15S	1.541 (39.14)	.971 (24.66)	—	1.312 (33.32)	.311 (7.90)	—	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)
DBM-25P	2.088 (53.03)	—	1.534 (38.96)	1.852 (47.04)	—	.329 (8.36)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)
DBM-25S	2.088 (53.03)	1.511 (38.38)	—	1.852 (47.04)	.311 (7.90)	—	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)
DCM-37P	2.729 (69.31)	—	2.182 (55.42)	2.500 (63.50)	—	.329 (8.36)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)
DCM-37S	2.729 (69.31)	2.159 (54.84)	—	2.500 (63.50)	.311 (7.90)	—	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)
DDM-50P	2.635 (66.92)	—	2.079 (52.81)	2.406 (61.11)	—	.441 (11.20)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)
DDM-50S	2.635 (66.92)	2.064 (52.43)	—	2.406 (61.11)	.423 (10.74)	—	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)

• Dimensions B, D, G, and H are measured as outside dimensions at the bottom of the draw.

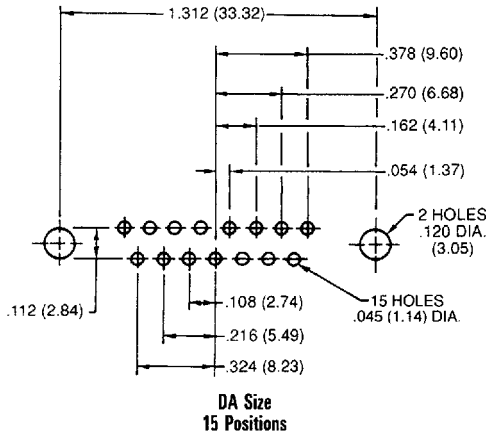
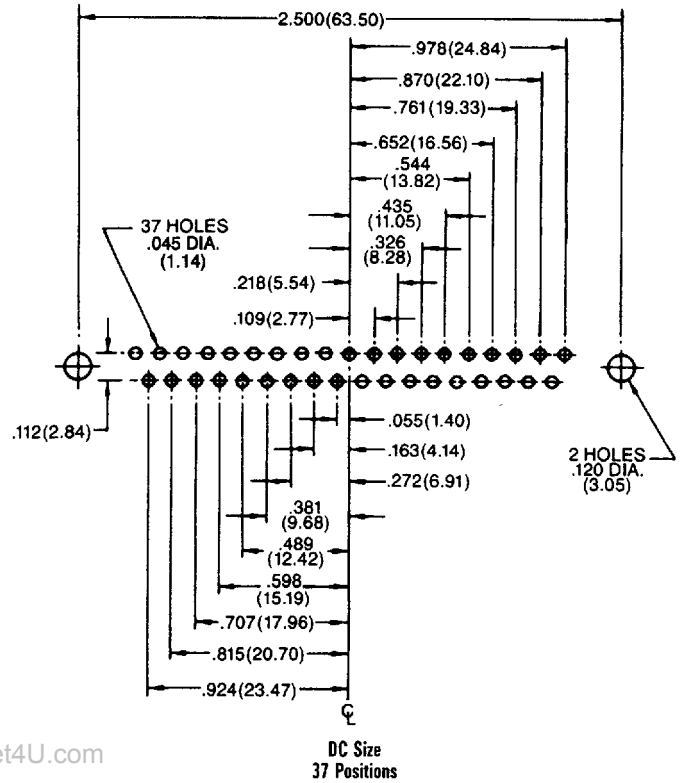
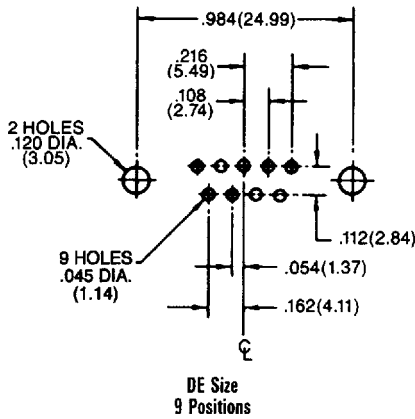
NOTE: B* and D* are the O.D. dims. for socket side, B' and D' are the I.D. dims. for pin side.

Mounting Option Dimensions – Solder Cup Connectors

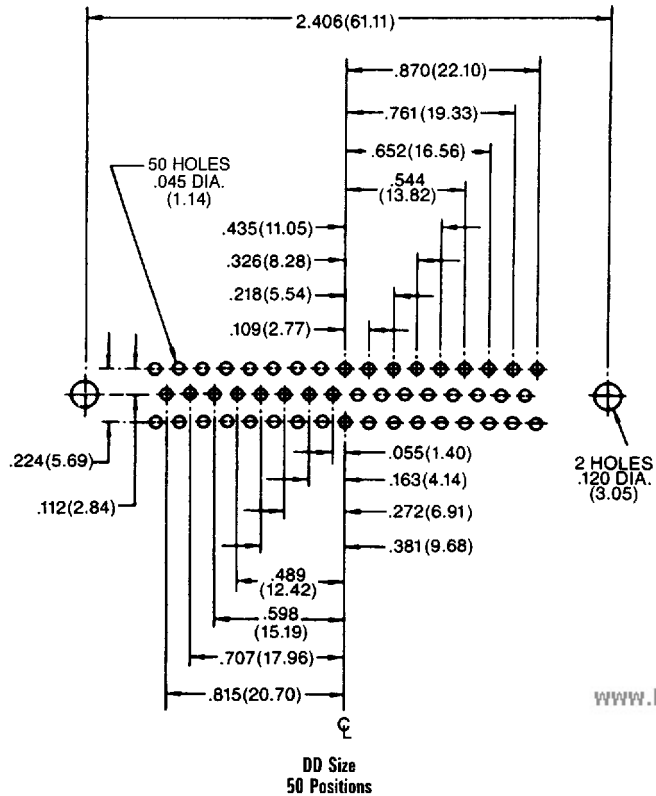
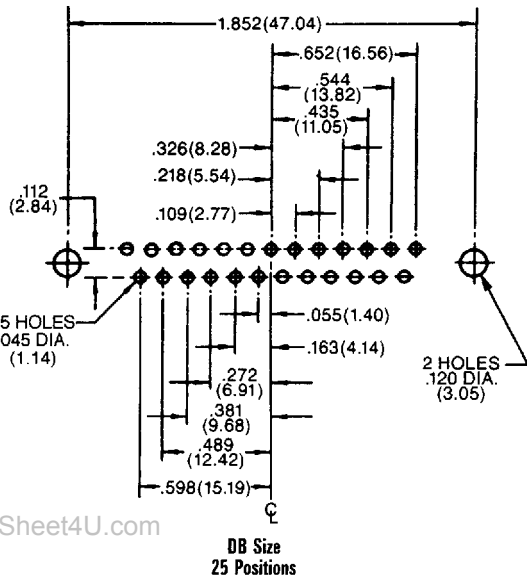


It is recommended that only one assembly, either pin or socket, be float mounted. Dimensions are shown in inches (millimeters). Dimensions subject to change.

PC Board Hole Patterns



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