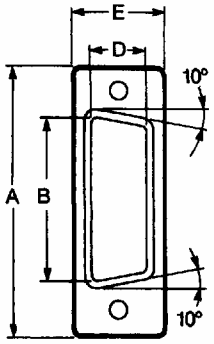
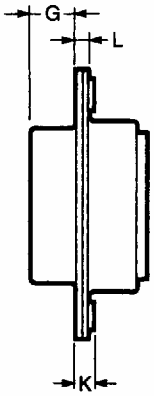
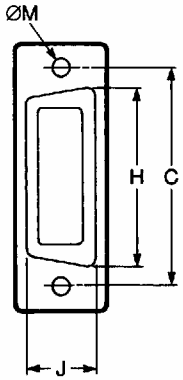
Shells



front face



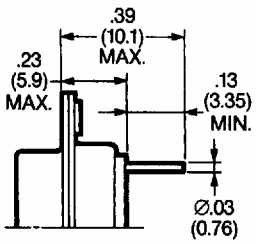


rear face

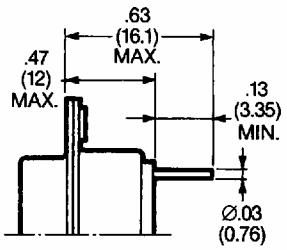
shell			E 09	A 15	B 25	C 37	D 50
A	+.030	P	1.19	1.52	2.07	2.71	2.62
	0	S	1.19	1.52	2.07	2.71	2.62
B	+.010	P	0.66	0.98	1.52	2.17	2.07
	0	S	0.63	0.96	1.50	2.15	2.05
C	±.005	P	0.98	1.31	1.85	2.50	2.40
		S	0.98	1.31	1.85	2.50	2.40
D	+.010	P	0.32	0.32	0.32	0.32	0.43
	0	S	0.30	0.30	0.30	0.30	0.41
E	+.030	P	0.47	0.47	0.47	0.47	0.59
	0	S	0.47	0.47	0.47	0.47	0.59
G	+.006	P	0.23	0.23	0.22	0.22	0.22
	0	S	0.24	0.24	0.24	0.24	0.24
H	+.020	P	0.74	1.07	1.61	2.26	2.16
	0	S	0.74	1.07	1.61	2.26	2.16
J	+.020	P	0.41	0.41	0.41	0.41	0.52
	0	S	0.41	0.41	0.41	0.41	0.52
K	+.008	P	0.04	0.04	0.04	0.05	0.05
	0	S	0.04	0.04	0.04	0.04	0.04
L	+.009	P	0.03	0.03	0.03	0.04	0.04
	0	S	0.03	0.03	0.03	0.03	0.03
M	+.003	P	0.12	0.12	0.12	0.12	0.12
	−.004	S	0.12	0.12	0.12	0.12	0.12

Terminations

straight PC

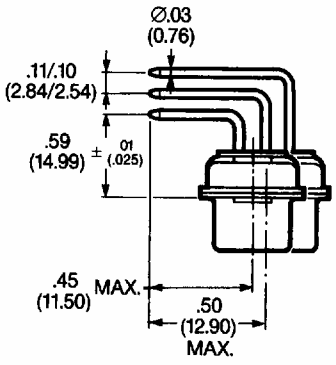


capacitive filter



π filter

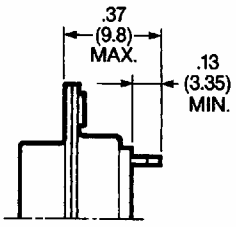
right angle PC



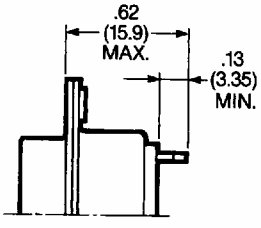
capacitive filter

*Termination 5 is .370 footprint

solder cup



capacitive filter



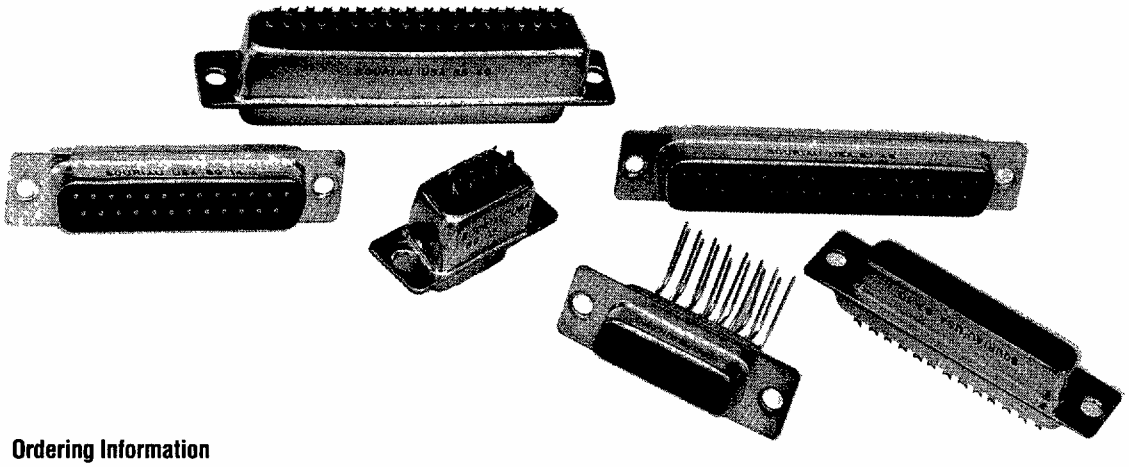
π filter

Note: Consult factory for special dimensions or other termination styles The Straight PC & Solder Cup versions with capacitive filters have the same dimensions as the standard non-filtered D-Sub connectors per MIL-C-24308

SOURIAU
an FCI Company

D*TP Series Description

- Designed for various industrial, data processing, telecommunication and general electronic applications.
- Fitted with planar array filters.
- Based on standard specifications: MIL-C-24308.



Ordering Information

Typical Catalog Number Description

D B TP 25 P M 2 — *** *

Series

Shell Size (No. of Contacts)
E:09, A:15, B:25, C:37, D:50

Technology
Planar Array Filters

Contact Arrangement
09, 15, 25, 37, 50

Contact Type
P: Pin, S: Socket

Filter Type
BC, MC, JC, KC, HC, EC, DC: Capacitive Filters
B, M, T, K, H, E: pi Filters

Plating Modifier
E:50 μ inch Gold
Without Indication 30 µinch Gold

Special Modifiers
O 440 Clinch Nuts
M Metal Brackets
S Metal Spacer
V Screw Lock

Additional Modifiers
(Testing, Selective Loading, Selective Pin Grounding, Selective Filtering—Consult Factory for Availability)

Termination
Without Indication: Solder Cup
1: ø .040 [1,02] Straight PC
2: ø .030 [0,76] Straight PC
3: ø .025 [0,63] Straight PC
5: ø .025 [0,63] Right Angle (See page 4 for Dimensions)
15: ø .025 [0,63] Right Angle (See page 4 for Dimensions)
16: ø .030 [0,76] Right Angle (See page 4 for Dimensions)

Materials and Finishes

	Materials	Finishes
Shells	Copper Alloy (standard) Steel	Tin-Lead Plate Tin-Lead Plate
Insulators	Self-Extinguishing Polyester (UL94V-0)	None
Contacts	Copper Alloy (machined)	000030 gold min over 000080 nickel min

Environmental Characteristics

Temperature	–55°C → 125°C	MIL-STD 1344, METHOD 1003, CONDITION A
Salt Spray*	48h	MIL-STD 1344, METHOD 1001, CONDITION B
Durability	300 cycles	Mating/Unmating
Vibration*	15g	MIL-STD 1344, METHOD 2005, CONDITION IV
Shock*	50g	MIL-STD 1344, METHOD 2004, CONDITION E
Humidity*	240h 95% RH/40°C	MIL-STD 1344, METHOD 1002, TYPE II, EXCEPT STEP 7A

*Special request

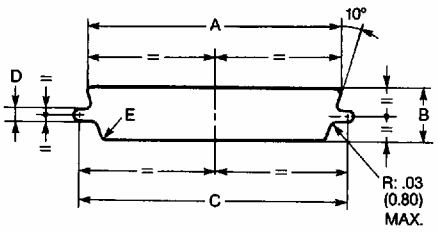
Electrical and Filter Characteristics

		Capacitive Filter							Pi-Filter					
Max voltage rating		200Vdc-120Vac rms 400 Hz							200Vdc-120Vac rms 400 Hz					
Max current rating		5 A							5 A					
Insulation resistance 25°C 2mn electrification time		>5000 M Ω (under 100 Vdc)							>5000 M Ω (under 100 Vdc)					
DWV, sea level 25°C, 50 mA max charge/discharge		500 Vdc							500 Vdc					
Contact resistance		7 5 m Ω max							7 5 m Ω max					
Max R F current		0.250 A							0 250 A					
Filter designation		**BC**	**MC**	**JC**	**KC**	**HC**	**EC**	**DC**	**B**	**M**	**T**	**K**	**H**	**E**
Capacitance (pF) at 1 kHz 0 1 Vrms at 25°C (±20%)		10000 to 15000	4000 to 6000	1500 to 2500	1000 to 1600	640 to 1000	400 to 600	160 to 240	20000 to 30000	8000 to 12000	3000 to 5000	1200 to 2000	800 to 1200	300 to 500
Max Cut-off Frequency at 3 dB (MHZ)		0 5	1 5	4 0	6 0	10 0	16 0	40 0	1 5	3 0	5 0	9 0	12 0	23 0
Attenuation per MIL-STD-220 at 25°C (with no applied voltage or current, in 50 Ω system)	Frequency (MHz)	Minimum Attenuation (dB)							Minimum Attenuation (dB)					
	1	5 5	1 5						2 0					
	3	13 5	6 5	2 0	1 0	0.5			7.0	3 0				
	10	24 0	16 0	8 5	5 5	3 0	1 5		27 0	22 0	15 0	5 0	1 0	
	30	33 5	25 5	17 5	14 0	10 0	6 5	2 0	42 0	41 0	32 0	22 0	18 0	7 0
	100	43 0	36 0	28 0	24 0	20 0	16 0	8 5	52 0	50 0	47 0	42 0	38 0	27 0
	300	50 0	40 0	32 0	29 0	24 0	22 0	15 0	58 0	55 0	53 0	49 0	47 0	43 0
	1000	53 0	42 0	38 0	35 0	30 0	25 0	22 0	60 0	55 0	55 0	53 0	51 0	50 0

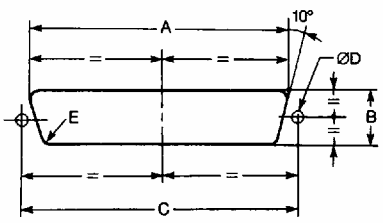
Attenuation Curves: see page 1 for performance

Panel Cutouts

Standard cut out



Cutout for mounting from rear of panel only

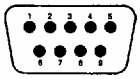


Shell		E	A	B	C	D
A	front	87	1 20	1 74	2 39	2 29
±0 1	rear	80	1 13	1 66	2 32	2 21
B	front	51	0 51	0 51	0 51	0 62
±0 1	rear	44	0 44	0 44	0 44	0 55
C	front	98	1 31	1 85	2 50	2 40
±0 1	rear	98	1 31	1 85	2 50	2 40
D	front	12	0 12	0 12	0 12	0 12
±0 05	rear	12	0 12	0 12	0 12	0 12
E	front	08	0 08	0 08	0 08	0 08
±0 1	rear	13	0 13	0 13	0 13	0 13

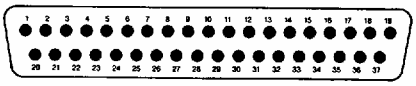
Layouts Male insulator front view

Contacts are individually numbered on both sides of the insulator.

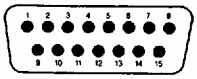
E 9 contacts



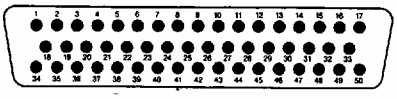
C 37 contacts



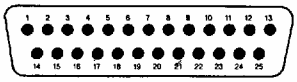
A 15 contacts



D 50 contacts



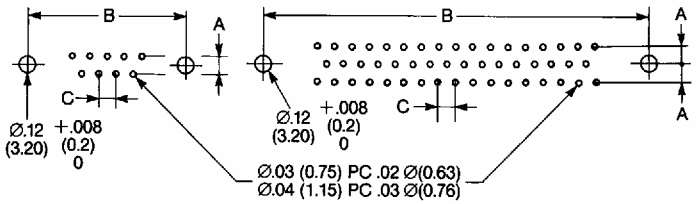
B 25 contacts



PC Card Drilling Dimensions

Shell E,A,B,C

Shell D



A = .100 for 15 version
A = .112 for 1, 2, 3, and 16 version

Shell		E	A	B	C	D
A	D*TP D*J, D*JP 2/300	0 11	0 11	0 11	0 11	0 11
A	D*TP D*JP 15/500	0 10	0 10	0 10	0 10	0 10
A	D*TP D*JP 16/800	0 11	0 11	0 11	0 11	0 11
B	D*TP D*J D*JP	0 98	1 31	1 85	2 50	2.40
C	D*TP D*J D*JP	0 11	0 11	0 11	0 11	0 11