



# 240-021 D-Subminiature Connector EMI Filtered (MIL-DTL-24308 Type)



### APPLICATION NOTES

- Materials/Finishes:  
Shells - See Table II  
Insulators - High grade rigid dielectric/N.A.  
Contacts - Copper Alloy/Gold Plated
- Assembly to be identified with date code, cage code, Glenair P/N, and serial number
- Electrical Performance:  
Dielectric withstanding voltage class A and B: 100 VDC  
All others: 500 VDC  
Insulation resistance: 5,000 megohms @ 100 VDC  
Current Rating Standard Density: 7.5 Amps maximum  
Current Rating High Density: 5 Amps maximum
- Dimensions B and D taken from inside of shell for Pin/Plug and outside for Socket/Receptacle
- Metric dimensions (mm) are indicated in parentheses

240-021  
D-Subminiature Connector  
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TABLE I: DIMENSIONS

Shell Size	Number of Contacts		A	B	C	D	E	F	G
	STD	HD	±.015 (0.38)	±.005 (0.13)	±.005 (0.13)	±.005 (0.13)	±.015 (0.38)	Max	Max
1	9P	15P	1.213 (30.8)	.666 (16.9)	.984 (25.0)	.329 (8.4)	.494 (12.5)	.769 (19.5)	.432 (11.0)
	9S	15S	1.213 (30.8)	.643 (16.3)	.984 (25.0)	.311 (7.9)	.494 (12.5)	.769 (19.5)	.432 (11.0)
2	15P	26P	1.541 (39.1)	.994 (25.2)	1.312 (33.3)	.329 (8.4)	.494 (12.5)	1.093 (27.8)	.432 (11.0)
	15S	26S	1.541 (39.1)	.971 (24.7)	1.312 (33.3)	.311 (7.9)	.494 (12.5)	1.635 (41.5)	.432 (11.0)
3	25P	44P	2.088 (53.0)	1.534 (39.0)	1.852 (47.0)	.329 (8.4)	.494 (12.5)	1.635 (41.5)	.432 (11.0)
	25S	44S	2.088 (53.0)	1.511 (38.4)	1.852 (47.0)	.311 (7.9)	.494 (12.5)	2.282 (58.0)	.432 (11.0)
4	37P	62P	2.729 (69.3)	2.182 (55.4)	2.500 (63.5)	.329 (8.4)	.494 (12.5)	2.282 (58.0)	.432 (11.0)
	37S	62S	2.729 (69.3)	2.159 (54.8)	2.500 (63.5)	.311 (7.9)	.494 (12.5)	2.282 (58.0)	.432 (11.0)
5	50P	78P	2.635 (66.9)	2.079 (52.8)	2.406 (61.1)	.441 (11.2)	.605 (15.4)	2.188 (55.6)	.544 (13.8)
	50S	78S	2.635 (66.9)	2.064 (52.4)	2.406 (61.1)	.423 (10.7)	.605 (15.4)	2.188 (55.6)	.544 (13.8)
6	X	104P	2.729 (69.3)	2.212 (56.2)	2.500 (63.5)	.503 (12.8)	.668 (17.0)	2.312 (58.7)	.606 (15.4)
		104S	2.729 (69.3)	2.189 (55.6)	2.500 (63.5)	.486 (12.3)	.668 (17.0)	2.312 (58.7)	.606 (15.4)

TABLE II: SHELL MATERIAL/FINISH

Symbol	Material	Finish Description
J	Aluminum	Yellow Cadmium
M		Electroless Nickel
MT		NI-PTFE 1000 Hour Grey™ Nickel Fluorocarbon Polymer
ZN		Zinc Nickel

TABLE III: FILTER TYPE

Symbol	Filter Type	H ±.010 (0.25)
P	PI-Circuit	.610 ((15.5)
C	C-Circuit	.380 (9.7)

TABLE IV:  
CAPACITOR ARRAY CODE AND  
CAPACITANCE RANGE

Class	PI-Circuit (pF)	C-Circuit (pF)
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300

TABLE V: HARDWARE OPTIONS

Symbol	Hardware
B	No Hardware
C	4-40 Clinch Nut