



**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  
EMI Filtered (MIL-DTL-24308 Type)



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™<br>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 |