

# M83513/14 Connector Datasheet

MD Series • MIL-DTL-83513 Micro-D Style Connectors



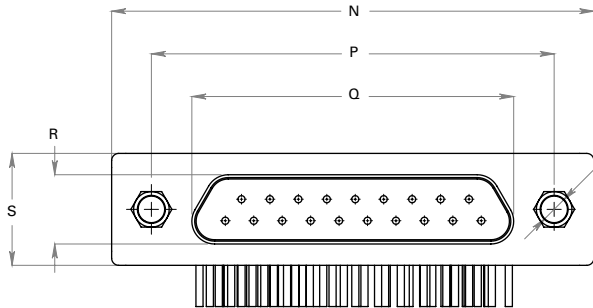
## MDP4 Cross-Reference & Compatibility

| Compatible Brands | Equivalents |
|-------------------|-------------|
| MIL-DTL-83513     | M83513/14   |
| Glenair           | MWDM        |
| Amphenol          | Series 100  |
| ITT Cannon        | MDM Series  |

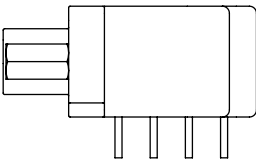
## MDP4 - N 51 Y 1 - B

- BASIC PART NUMBER**  
MDP4 Condensed 90-degree PCB Micro-D
- MATERIAL & FINISH**  
N\* Aluminum, electroless nickel  
C Aluminum, cadmium  
P Stainless steel, passivated  
G Aluminum, electroless nickel (space-grade)
- CONTACT AMOUNT**  
51
- CONTACT STYLE**  
Y PC tail socket
- CONTACT TAIL LENGTH\***  
1 .109 inches (2.77 mm)  
2 .140 inches (3.56 mm)  
3 .172 inches (4.37 mm)
- MOUNTING HARDWARE**  
B No hardware (thru-hole only)  
P Jackpost attached  
H Threaded insert  
W Jackpost attached and threaded insert

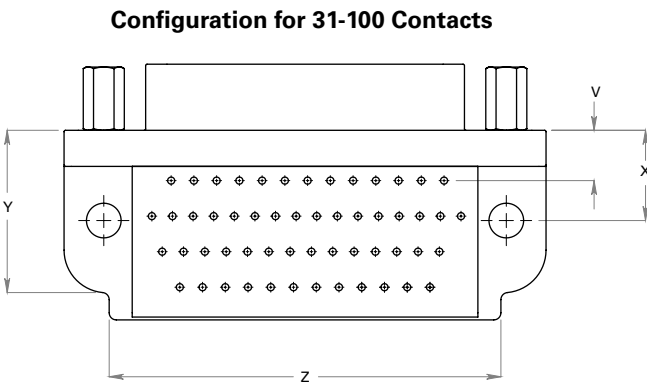
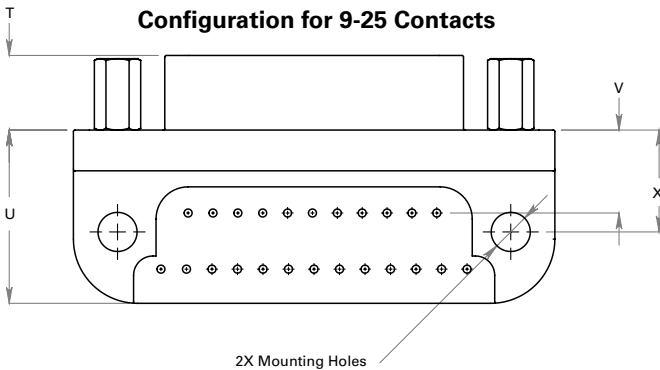
\*Aerospace preferred.      †Tail length tolerance  $\pm 0.015$  inches (.38 mm).



9-51 Contacts #2-56 UNC-2B Threads  
100 Contacts #4-40 UNC-2B Threads



PCB Mounting Holes  
9-51 Contacts .096 (2.4) Max Dia  
100 Contacts .150 (3.8) Max Dia



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## Receptacle Dimensions

| Shell Size | N            | P            | Q            | R           | S           | T           | U            | V           | X           | Y            | Z            |
|------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|
| 51S        | 1.435 (36.5) | 1.215 (30.9) | 1.051 (26.7) | 0.296 (7.5) | 0.351 (8.9) | 0.195 (5.0) | 0.660 (16.8) | 0.150 (3.8) | 0.300 (7.6) | 0.450 (11.4) | 1.225 (31.1) |

Dimensions are in inches (mm).

## Mounting Hardware

| B                                                                                 | P                                                                                 | H                                                                                  | W                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |

## Materials & Finish

Connector Shell, Metal:

Aluminum Alloy 6061 In Accordance With SAE-AMS-QQ-A-250/11

Code C: Cadmium With Yellow Chromate Conversion Coating

in Accordance With SAE-AMS-QQ-P-416, Type II, Class 3

Code N: Electroless Nickel In Accordance With SAE-AMS-26074, Class 3

Code P: Stainless Steel, 300 Series, Passivated In Accordance With SAE-AMS-QQ-P-35

Insulator:

Liquid Crystal Polymer, 30% Glass-Filled, in Accordance With MIL-M-24519

Encapsulant (Potting):

Epoxy Resin, Hysol EE4215/HD3561