

# D38999/41 Box Mount Hermetic Receptacle MIL-DTL-38999 Series IV

## How To Order: *MS*

### Basic Specification

*D38999*

### Connector Material / Finish

*N* - CRES, Nickel  
*Y* - CRES, Passivated

### Insert Arrangement

Per MIL-STD-1560;  
See Pages B2 - B4

### Alternate Key Position

*A, B, C, D, K, L, M, R, U*  
(*N* = Normal)

**D38999**

**/41**

**Y**

**B**

**35**

**P**

**N**

### Shell Style

*/41* - Box Mount

### Shell Size

*B* - 11 *F* - 19  
*C* - 13 *G* - 21  
*D* - 15 *H* - 23  
*E* - 17 *J* - 25

### Contact Termination

*P* - Pin, Solder Cup *S* - Socket, Solder Cup  
*X* - Pin, Eyelet *Z* - Socket, Eyelet  
*C* - Pin, PCB *D* - Socket, PCB  
Flex Feedthrough Flex Feedthrough

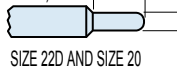
**TABLE II: CONTACT SIZE**

### PRINTED CIRCUIT TAIL CONFIGURATIONS CONTACT STYLE C AND D



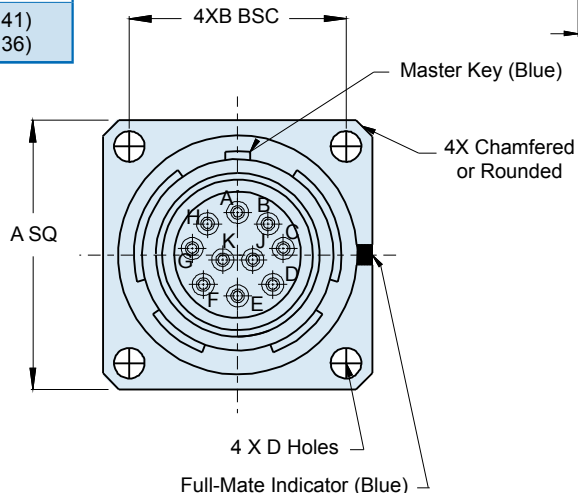
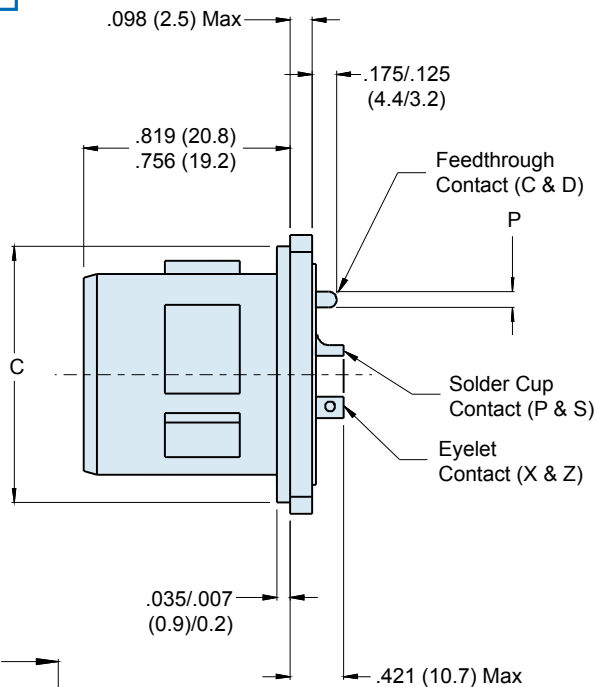
SIZE 12 AND SIZE 16

$.050 \pm .015$   
(1.27  $\pm$  0.38)



SIZE 22D AND SIZE 20

| Contact Size | $\phi$ P                     |
|--------------|------------------------------|
| 22D          | .011 (0.28)<br>.015 (0.38)   |
| 20           | .024 (0.61)<br>.028 (0.71)   |
| 16           | .0635 (1.61)<br>.0615 (1.56) |
| 12           | .095 (2.41)<br>.093 (2.36)   |



# D38999/41 Box Mount Hermetic Receptacle MIL-DTL-38999 Series IV



D38999 QPL  
Hermetics

## How To Order: Commercial

|                                                    |                                                                                  |                                                     |                                                                                                                                                      |                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Connector Series</b><br>234 - Series IV Type    | <b>Shell Style</b><br>H2 - Hermetic Box Mount                                    | <b>Shell Size</b><br>11, 13, 15, 17, 19, 21, 23, 25 | <b>Contact Termination</b><br>P - Pin, Solder Cup   S - Socket, Solder Cup<br>X - Pin, Eyelet   Z - Socket, Eyelet<br>C - Pin, PCB   D - Socket, PCB |                                                                            |
| <b>234</b>                                         | <b>- 100</b>                                                                     | <b>- H2</b>                                         | <b>Z1</b>                                                                                                                                            | <b>11 - 35</b>                                                             |
| <b>Connector Type</b><br>100 - Hermetic Receptacle | <b>Connector Material / Finish</b><br>ZL - CRES, Nickel<br>Z1 - CRES, Passivated |                                                     | <b>Insert Arrangement</b><br>Per MIL-STD-1560;<br>See Pages B-2 - B-4                                                                                | <b>Alternate Key Position</b><br>A, B, C, D, K, L, M, R, U<br>(N = Normal) |
|                                                    |                                                                                  |                                                     | <b>P</b>                                                                                                                                             | <b>N</b>                                                                   |

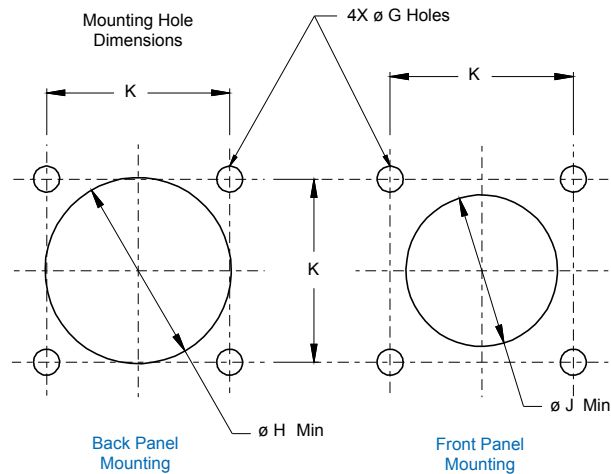


TABLE I: CONNECTOR DIMENSIONS

| SHELL SIZE CODE | SHELL SIZE | A SQ                       | B BSC       | C DIA                      | D DIA                  | øG HOLES ±.005(0.1) | ø H MIN     | ø J MIN     | K ±.005(0.1) |
|-----------------|------------|----------------------------|-------------|----------------------------|------------------------|---------------------|-------------|-------------|--------------|
| B               | 11         | 1.051(26.7)<br>1.008(25.6) | .812(20.6)  | .793(20.1)<br>.778(19.8)   | .138(3.5)<br>.122(3.1) | .128(3.3)           | .781(19.8)  | .625(15.9)  | .812(20.6)   |
| C               | 13         | 1.145(29.1)<br>1.102(28.0) | .906(23.0)  | .919(23.3)<br>.904(23.0)   | .138(3.5)<br>.122(3.1) | .128(3.3)           | .921(23.4)  | .750(19.1)  | .906(23.0)   |
| D               | 15         | 1.240(31.5)<br>1.197(30.4) | .969(24.6)  | 1.044(26.5)<br>1.029(26.1) | .138(3.5)<br>.122(3.1) | .128(3.3)           | 1.047(26.6) | .906(23.0)  | .968(24.6)   |
| E               | 17         | 1.334(33.9)<br>1.291(32.8) | 1.062(27.0) | 1.170(29.7)<br>1.155(29.3) | .138(3.5)<br>.122(3.1) | .128(3.3)           | 1.218(30.9) | 1.016(25.8) | 1.062(27.0)  |
| F               | 19         | 1.460(37.1)<br>1.417(36.0) | 1.156(29.4) | 1.294(32.9)<br>1.279(32.5) | .138(3.5)<br>.122(3.1) | .128(3.3)           | 1.296(32.9) | 1.142(29.0) | 1.156(29.4)  |
| G               | 21         | 1.583(40.2)<br>1.539(39.1) | 1.250(31.8) | 1.419(36.0)<br>1.404(35.7) | .138(3.5)<br>.122(3.1) | .128(3.3)           | 1.421(36.1) | 1.266(32.2) | 1.250(31.8)  |
| H               | 23         | 1.709(43.4)<br>1.665(42.3) | 1.375(34.9) | 1.544(39.2)<br>1.529(38.8) | .157(4.0)<br>.142(3.6) | .154(3.9)           | 1.546(39.3) | 1.375(34.9) | 1.375(34.9)  |
| J               | 25         | 1.835(46.6)<br>1.791(45.5) | 1.500(38.1) | 1.670(42.4)<br>1.654(42.0) | .157(4.0)<br>.142(3.6) | .154(3.9)           | 1.672(42.5) | 1.484(37.7) | 1.500(38.1)  |