

## D38999/21 Box Mount Hermetic Receptacle MIL-DTL-38999 Series III

### 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, E  
(N = Normal)

D38999

/21

Y

B

35

P

N

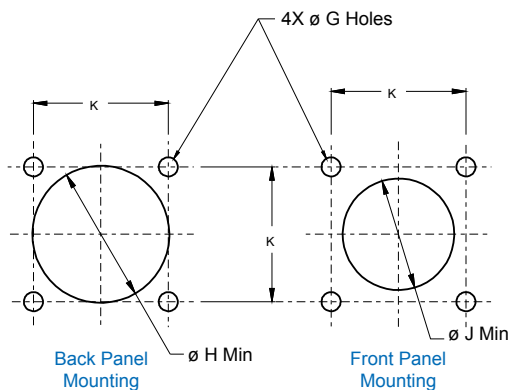
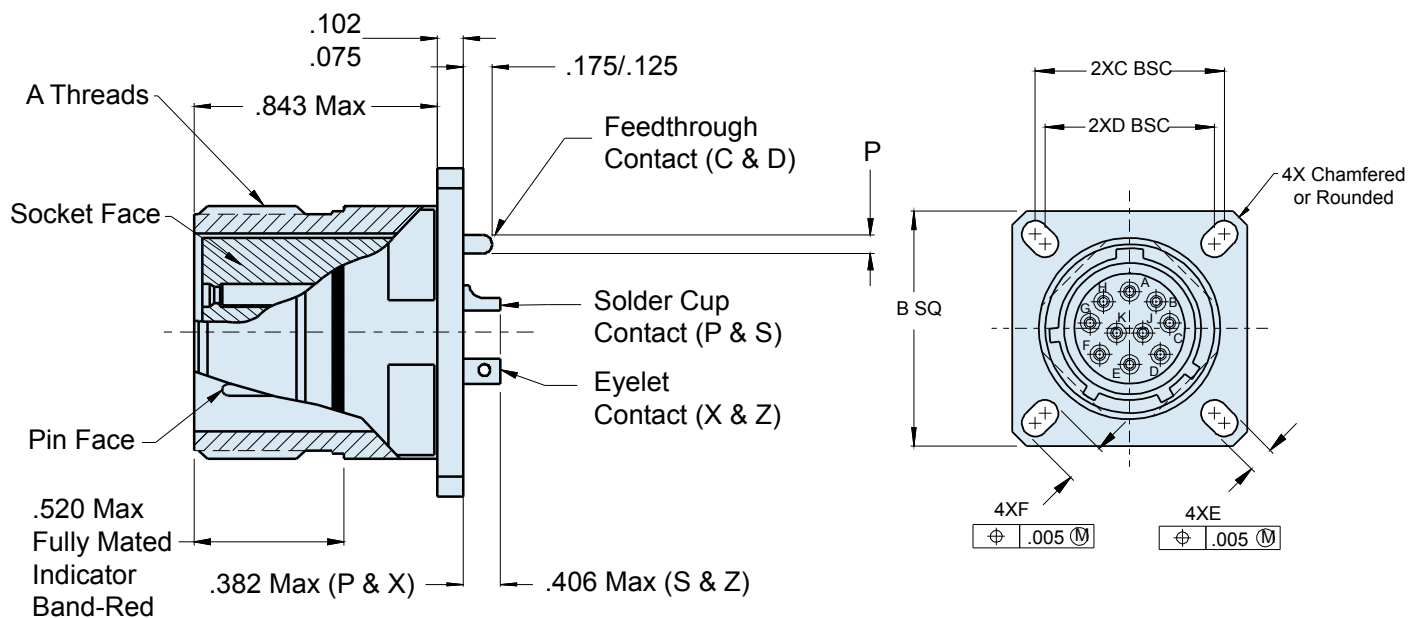
**Shell Style**  
/21 - Box Mount

#### Shell Size

A - 9 F - 19  
B - 11 G - 21  
C - 13 H - 23  
D - 15 J - 25  
E - 17

#### Contact Termination

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



# D38999/21

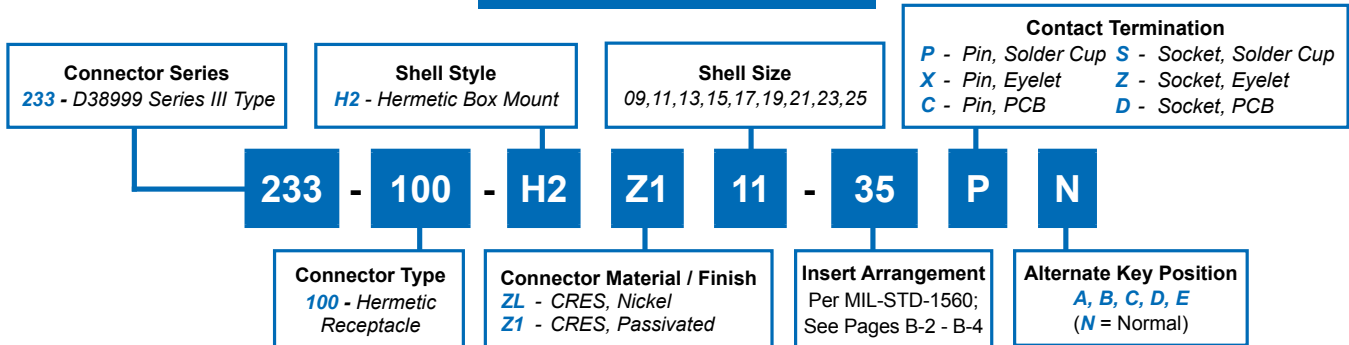
## Box Mount Hermetic Receptacle

### MIL-DTL-38999 Series III



D38999 QPL  
Hermetics

#### How To Order: Commercial



B

TABLE I: CONNECTOR DIMENSIONS

| SHELL SIZE CODE | SHELL SIZE | A THREAD             | B SQ<br>±.012(0.3) | C BSC       | D BSC       | E<br>±.008(0.2) | F<br>±.008(0.2) |
|-----------------|------------|----------------------|--------------------|-------------|-------------|-----------------|-----------------|
| A               | 9/09       | .6250-.1P-.3L-TS-2A  | .937(23.8)         | .719(18.3)  | .594(15.1)  | .128(3.3)       | .216(5.5)       |
| B               | 11         | .7500-.1P-.3L-TS-2A  | 1.031(26.2)        | .812(20.6)  | .719(18.3)  | .128(3.3)       | .194(4.9)       |
| C               | 13         | .8750-.1P-.3L-TS-2A  | 1.126(28.6)        | .906(23.0)  | .812(20.6)  | .128(3.3)       | .194(4.9)       |
| D               | 15         | 1.0000-.1P-.3L-TS-2A | 1.220(31.0)        | .969(24.6)  | .906(23.0)  | .128(3.3)       | .194(4.9)       |
| E               | 17         | 1.1875-.1P-.3L-TS-2A | 1.311(33.3)        | 1.062(27.0) | .969(24.6)  | .128(3.3)       | .194(4.9)       |
| F               | 19         | 1.2500-.1P-.3L-TS-2A | 1.437(36.5)        | 1.156(29.4) | 1.062(27.0) | .128(3.3)       | .194(4.9)       |
| G               | 21         | 1.3750-.1P-.3L-TS-2A | 1.563(39.7)        | 1.250(31.8) | 1.156(29.4) | .128(3.3)       | .194(4.9)       |
| H               | 23         | 1.5000-.1P-.3L-TS-2A | 1.689(42.9)        | 1.375(34.9) | 1.250(31.8) | .154(3.9)       | .242(6.1)       |
| J               | 25         | 1.6250-.1P-.3L-TS-2A | 1.811(46.0)        | 1.500(38.1) | 1.375(34.9) | .154(3.9)       | .242(6.1)       |

TABLE I (CONTINUED): CONNECTOR DIMENSIONS

| SHELL SIZE CODE | SHELL SIZE | Ø G HOLES<br>±.005(0.1) | Ø H MIN     | Ø J MIN     | K<br>±.005(0.1) |
|-----------------|------------|-------------------------|-------------|-------------|-----------------|
| A               | 9/09       | .128(3.3)               | .656(16.7)  | .516(13.1)  | .719(18.3)      |
| B               | 11         | .128(3.3)               | .781(19.8)  | .625(15.9)  | .812(20.6)      |
| C               | 13         | .128(3.3)               | .921(23.4)  | .750(19.1)  | .906(23.0)      |
| D               | 15         | .128(3.3)               | 1.047(26.6) | .906(23.0)  | .968(24.6)      |
| E               | 17         | .128(3.3)               | 1.218(30.9) | 1.016(25.8) | 1.062(27.0)     |
| F               | 19         | .128(3.3)               | 1.296(32.9) | 1.142(35.9) | 1.156(29.4)     |
| G               | 21         | .128(3.3)               | 1.421(36.1) | 1.266(32.2) | 1.250(31.8)     |
| H               | 23         | .154(3.9)               | 1.546(39.3) | 1.375(34.9) | 1.375(34.9)     |
| J               | 25         | .154(3.9)               | 1.672(42.5) | 1.484(37.7) | 1.500(38.1)     |

TABLE II: CONTACT SIZE

PRINTED CIRCUIT TAIL CONFIGURATIONS  
CONTACT STYLE C AND D



SIZE 12 AND SIZE 16

.050 ± .015  
(1.27 ± 0.38)

SIZE 22D AND SIZE 20

| Contact Size | Ø 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)   |