

# 233-100-H2 Box mount hermetic receptacle

## MIL-DTL-38999 Series III type

| How To Order: Commercial       |                                                                                                                                                             |     |    |       |   |   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-------|---|---|
| Sample Part Number             | 233-100                                                                                                                                                     | -H2 | Z1 | 11-35 | P | N |
| Series / Basic Part No.        | Series 23 SuperNine® Hermetic Receptacle                                                                                                                    |     |    |       |   |   |
| Connector Style                | H2 = Box Mount                                                                                                                                              |     |    |       |   |   |
| Finish                         | Z1 = CRES, Passivated<br>ZL = CRES, Nickel Finish                                                                                                           |     |    |       |   |   |
| Shell Size-Insert Arrangement* | Per MIL-STD-1560                                                                                                                                            |     |    |       |   |   |
| Contact Type                   | P = Pin, Solder Cup      S = Socket, Solder Cup<br>X = Pin, Eyelet      Z = Socket, Eyelet<br>C = Pin, PCB Flex Feedthru      D = Socket, PCB Flex Feedthru |     |    |       |   |   |
| Alternate Key Position*        | A, B, C, D, E, N = Normal                                                                                                                                   |     |    |       |   |   |

\*Refer to Section A for complete details

Modification codes may be added directly to the end of any valid part number

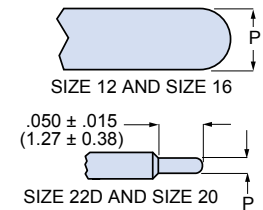
D

| 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)       |

| Connector Dimensions (Continued) |            |                         |             |             |                 |
|----------------------------------|------------|-------------------------|-------------|-------------|-----------------|
| 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)     |

### Contact Size & Diameter

PRINTED CIRCUIT TAIL CONFIGURATIONS  
CONTACT STYLE C AND D



| 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)   |

### Hermetic Leak Rate Mod Codes

| Designator | Required Leak Rate                         |
|------------|--------------------------------------------|
| -585A      | 1 x 10 <sup>-10</sup> cc Helium per second |
| -585B      | 1 x 10 <sup>-9</sup> cc Helium per second  |
| -585C      | 1 x 10 <sup>-8</sup> cc Helium per second  |

### Wire Accommodation

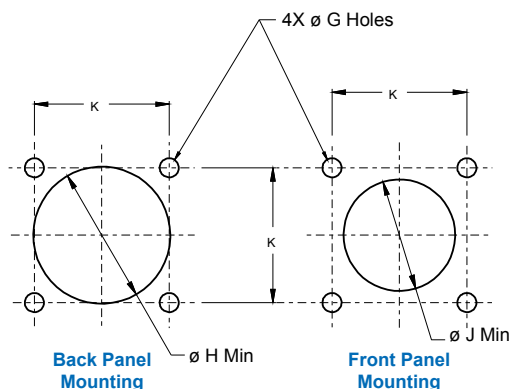
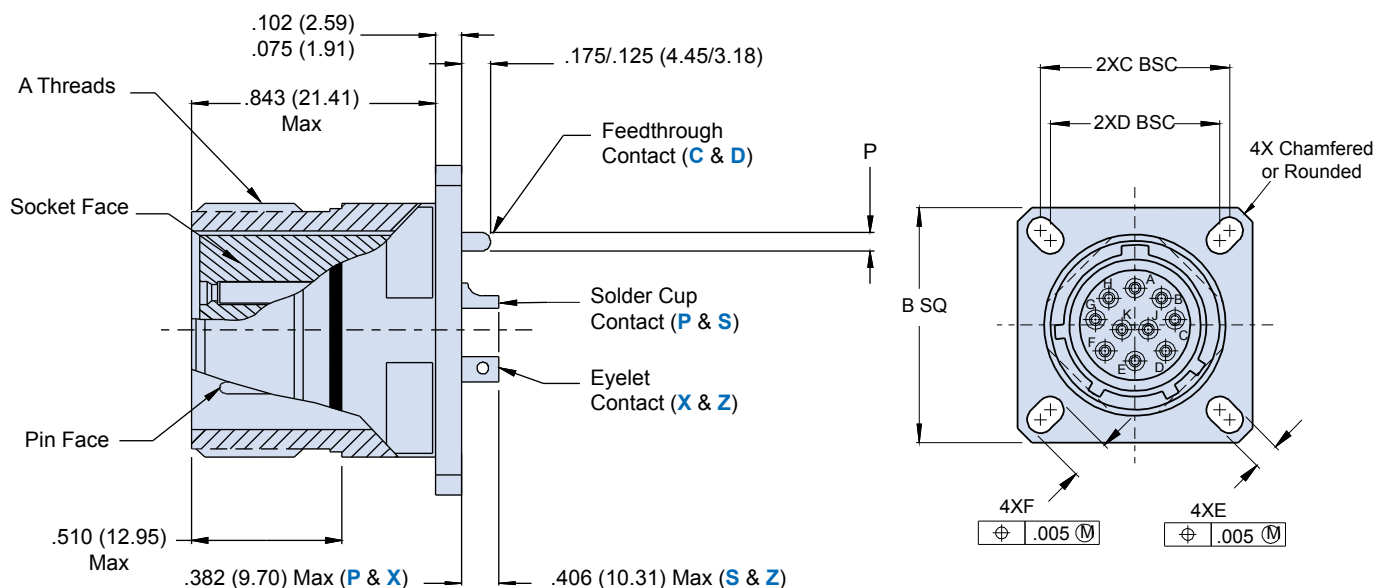
| Contact Size | Wire Gauge |
|--------------|------------|
| 22D          | #22 - #28  |
| 20           | #20 - #24  |
| 16           | #16 - #20  |
| 12           | #12 - #14  |



| How To Order: MS                 |                                                                                                                                                             |     |   |      |   |   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|------|---|---|
| Sample Part Number               | D38999                                                                                                                                                      | /21 | Y | B-35 | P | N |
| Series / Basic Part No.          | MIL-DTL-D38999 Series III Type                                                                                                                              |     |   |      |   |   |
| Connector Style                  | /21 = Box Mount                                                                                                                                             |     |   |      |   |   |
| Finish                           | Y = CRES, Passivated<br>N = CRES, Nickel Finish                                                                                                             |     |   |      |   |   |
| Shell Size - Insert Arrangement* | Per MIL-STD-1560                                                                                                                                            |     |   |      |   |   |
| Contact Type                     | P = Pin, Solder Cup      S = Socket, Solder Cup<br>X = Pin, Eyelet      Z = Socket, Eyelet<br>C = Pin, PCB Flex Feedthru      D = Socket, PCB Flex Feedthru |     |   |      |   |   |
| Alternate Key Position*          | A, B, C, D, E, N = Normal                                                                                                                                   |     |   |      |   |   |

**\*Refer to Section A for complete details**

Modification codes may be added directly to the end of any valid part number



| Mates With       |                                                            |
|------------------|------------------------------------------------------------|
| Plug Part Number | Description                                                |
| 233-105SG6       | SuperNine® plug with single integrated band porch          |
| 233-105BG6       | SuperNine® plug with integrated band porch and boot groove |
| 233-105DG6       | SuperNine® plug with double integrated band porch          |
| 233-105-G6       | SuperNine® plug with accessory attachment threads          |