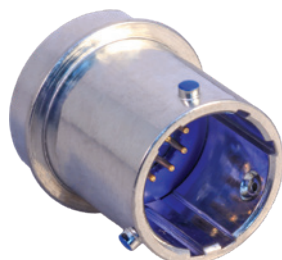


## MIL-DTL-38999 Series I Type 231-100-H5 Solder-mount hermetic receptacle



### CONNECTOR FEATURES

- Bayonet coupling for rapid mating
- Scoop proof technology
- MIL-STD-1560 insert arrangements
- Same EMI performance as D38999 Series III
- Quick turn, positive lock, full mate indicator
- 500 cycles per D38999
- Enhanced finishes like Passivated stainless steel and Electrodeposited Nickel over stainless steel
- Available in Jam-nut, solder and box mount
- Meets  $1 \times 10^{-7}$  cc/sec He leak requirement
- Hi-reliability stainless steel bayonets utilized

| HOW TO ORDER                  |                                                                                                                                       |    |    |    |   |   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---|---|
| Sample Part Number            | 231-100-H5                                                                                                                            | Z1 | 11 | 35 | P | N |
| Basic Part Number             | 231-100-H5                                                                                                                            |    |    |    |   |   |
| Connector Material and Finish | ZL = CRES, Nickel<br>Z1 = CRES, Passivated<br>FT = Carbon Steel, Fused Tin                                                            |    |    |    |   |   |
| Shell Size                    | 09, 11, 13, 15, 17, 19, 21, 23, 25                                                                                                    |    |    |    |   |   |
| Insert Arrangement            | Per MIL-STD-1560; See Pages C-2 - C-4                                                                                                 |    |    |    |   |   |
| Contact Termination           | P = Pin, Solder Cup    S = Socket, Solder Cup<br>X = Pin, Eyelet        Z = Socket, Eyelet<br>C = Pin, PCB            D = Socket, PCB |    |    |    |   |   |
| Alternate Key Position        | A, B, C, D (N = Normal)                                                                                                               |    |    |    |   |   |

| TABLE I: CONNECTOR DIMENSIONS |                   |                            |           |                   |
|-------------------------------|-------------------|----------------------------|-----------|-------------------|
| Shell Size                    | ø A<br>±.016(0.4) | ø B                        | C<br>Max  | ø H<br>±.005(0.1) |
| 9/09                          | .750(19.1)        | .673(17.1)<br>.667(16.9)   | .187(4.7) | .680(17.3)        |
| 11                            | .844(21.4)        | .782(19.9)<br>.776(19.7)   |           | .789(20.0)        |
| 13                            | .969(24.6)        | .907(23.0)<br>.901(22.9)   |           | .914(23.2)        |
| 15                            | 1.094(27.8)       | 1.032(26.2)<br>1.027(26.1) |           | 1.038(26.4)       |
| 17                            | 1.218(30.9)       | 1.157(29.4)<br>1.151(29.2) |           | 1.164(29.6)       |
| 19                            | 1.312(33.3)       | 1.251(31.8)<br>1.245(31.6) |           | 1.258(32.0)       |
| 21                            | 1.438(36.5)       | 1.376(35.0)<br>1.370(34.8) | .218(5.5) | 1.383(35.1)       |
| 23                            | 1.563(39.7)       | 1.501(38.1)<br>1.495(38.0) |           | 1.508(38.3)       |
| 25                            | 1.688(42.9)       | 1.626(41.3)<br>1.620(41.1) |           | 1.643(41.7)       |

| TABLE II: CONTACT SIZE                                           |                              |
|------------------------------------------------------------------|------------------------------|
| PRINTED CIRCUIT TAIL CONFIGURATIONS<br>CONTACT STYLE C AND D<br> |                              |
| SIZE 12 AND SIZE 16                                              |                              |
| 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)   |

| HERMETIC LEAK RATE MOD CODES |                                          |
|------------------------------|------------------------------------------|
| Designator                   | Required Leak Rate                       |
| -585A                        | $1 \times 10^{-10}$ cc Helium per second |
| -585B                        | $1 \times 10^{-9}$ cc Helium per second  |
| -585C                        | $1 \times 10^{-8}$ cc Helium per second  |

| WIRE ACCOMODATION |            |
|-------------------|------------|
| Contact Size      | Wire Guage |
| 22D               | #22 - #28  |
| 20                | #20 - #24  |
| 16                | #16 - #20  |
| 12                | #12 - #14  |