

233-100-H2 Box Mount Hermetic Receptacle MIL-DTL-38999 Series III Type



How To Order: Commercial

Connector Series
233 - D38999 Series III Type

Shell Style
H2 - Hermetic Box Mount

Shell Size
09, 11, 13, 15, 17, 19, 21, 23, 25

Contact Termination
P - Pin, Solder Cup S - Socket, Solder Cup
X - Pin, Eyelet Z - Socket, Eyelet
C - Pin, PCB D - Socket, PCB

233 - 100 - H2 Z1 11 - 35 P N

Connector Type
100 - Hermetic Receptacle

Connector Material / Finish
ZL - CRES, Nickel
Z1 - CRES, Passivated

Insert Arrangement
Per MIL-STD-1560;
See Pages B-2 - B-4

Alternate Key Position
A, B, C, D, E
(N = Normal)

233-100-H2
Supercedes original
DLA equivalent part
number 233-003

| SHELL SIZE CODE | SHELL SIZE | A THREAD | B SQ ±.012(0.3) | C BSC | D BSC | E ±.008(0.2) | F ±.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) |

| Designator | Required Leak Rate |
|------------|--|
| -585A | 1 x 10 ⁻¹⁰ cc Helium per second |
| -585B | 1 x 10 ⁻⁹ cc Helium per second |
| -585C | 1 x 10 ⁻⁸ cc Helium per second |

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

| SHELL SIZE CODE | SHELL SIZE | Ø G HOLES ±.005(0.1) | Ø H MIN | Ø J MIN | K ±.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 | Ø P |
|--------------|------------------------------|
| 22D | .011 (0.28) .015 (0.38) |
| 20 | .024 (0.61) .028 (0.71) |
| 16 | .0635 (1.61) .0615 (1.56) |
| 12 | .095 (2.41) .093 (2.36) |

Dimensions in Inches (millimeters) are subject to change without notice.