# Harsh Environment Power and Signal Interconnects

## 250-013 Hermetic Box Mount Receptacle, Pin/Socket Solder Cup or Eyelet Termination
## MS3142 Type




**NOTES:**

1. To be identified with manufacturer's name, part number and date code, space permitting.
2. Front panel mount square flange receptacle with through mounting holes.
3. Glenair 250-013 will mate with any MIL-DTL-5015 Series threaded coupling plug of same size and insert polarization.
4. Performance:
   - A. Hermeticity: <1 x $10^{-6}$ cc/Sec @ 1 Atm. differential.
   - B. DWV: see page 2.
   - C. IR: 5000 Megohms min @ 500VDC.
5. Material/Finish:
   - A. Shell*: fused tin over ferrous steel/ Z1 passivated stainless steel.
   - B. Contacts: 52 Nickel alloy/gold plate
   - C. Seals: silicone elastomer.
   - D. Insulation: glass beads, NOIBN
   - E. Socket insulator: rigid dielectric.

* Additional shell materials available, including titanium and Inconel®. Consult factory for ordering information.

**HOW TO ORDER**

| Sample Part Number | 250-013 | Z1 | 14-6 | P | X |
|---|---|---|---|---|---|
| **Basic Part Number** | **250-013** = box mount receptacle | | | | |
| **Material/Finish** | **FT** = fused tin over ferrous steel<br>**Z1** = passivated stainless steel | | | | |
| **Shell Size - Insert Arrangement** | Shell size - insert arrangements per MIL-STD-1651 on page 2 | | | | |
| **Termination Type** | **P** = solder cup, pin **X** = eyelet, pin<br>**S** = solder cup, socket **Z** = eyelet, socket | | | | |
| **Alternate Insert Position** | **W**, **X**, **Y**, **Z**, **OMIT** for normal; alternate key positions on page 4 | | | | |

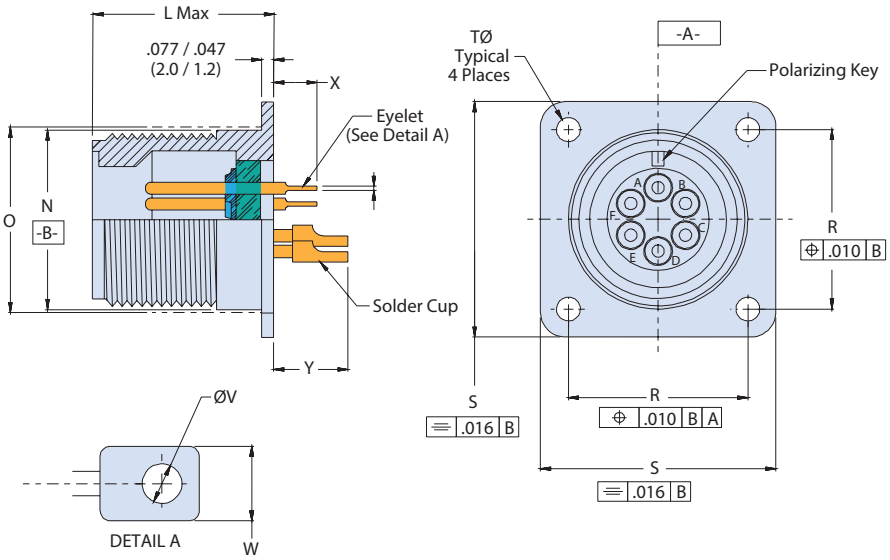


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**TABLE I: CONTACT DIMENSIONS**

| Contact Size | X Max | Y Max | Z Min | V Min | W Max |
|---|---|---|---|---|---|
| 16 | .219 (5.6) | .375 (9.5) | .020 (0.5) | .065 (1.7) | .115 (2.9) |
| 12 | .281 (7.1) | .516 (13.1) | .020 (0.5) | .096 (2.4) | .190 (4.8) |
| 8 | .700 (17.8) | .719 (18.3) | .040 (1.0) | .135 (3.4) | .330 (8.4) |
| 4 | .900 (22.9) | .980 (24.9) | .050 (1.3) | .220 (5.6) | .440 (11.2) |
| 0 | .900 (22.9) | .980 (24.9) | .090 (2.3) | .335 (8.5) | .605 (15.4) |

Note: Contact sizes 4 and 0 are not available for "S" size shells (8S, 10S, 10SL, 12S, 14S, and 16S) plus size 12 and 14

**HERMETIC LEAK RATE MOD CODE**

| 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 |

**TABLE III: CONNECTOR DIMENSIONS**

| Size | L Maximum Contact Size 16, 12, 8 | L Maximum Contact Size 4, 0 | ØN +.000 -.062 (+0 -1.6) | ØO (Ref) Mounting Hole | R T.P ℄ ---- ℄ | S ±.031 (0.8) | ØT ±.005 (0.1) |
|---|---|---|---|---|---|---|---|
| 8S | .730 (18.5) | - | .532 (13.5) | .562 (14.3) | .594 (15.1) | .875 (22.2) | .120 (3.0) |
| 10S | .730 (18.5) | - | .656 (16.7) | .688 (17.5) | .719 (18.3) | 1.000 (25.4) | .120 (3.0) |
| 10SL | .730 (18.5) | - | .656 (16.7) | .688 (17.5) | .719 (18.3) | 1.000 (25.4) | .120 (3.0) |
| 12S | .730 (18.5) | - | .782 (19.9) | .812 (20.6) | .812 (20.6) | 1.094 (27.8) | .120 (3.0) |
| 12 | .915 (23.2) | - | .782 (19.9) | .812 (20.6) | .812 (20.6) | 1.094 (27.8) | .120 (3.0) |
| 14S | .730 (18.5) | - | .906 (23.0) | .938 (23.8) | .906 (23.0) | 1.188 (30.2) | .120 (3.0) |
| 14 | .915 (23.2) | - | .906 (23.0) | .938 (23.8) | .906 (23.0) | 1.188 (30.2) | .120 (3.0) |
| 16S | .730 (18.5) | 1.040 (26.4) | 1.032 (26.2) | 1.062 (27.0) | .969 (24.6) | 1.281 (32.5) | .120 (3.0) |
| 16 | .915 (23.2) | 1.040 (26.4) | 1.032 (26.2) | 1.062 (27.0) | .969 (24.6) | 1.281 (32.5) | .120 (3.0) |
| 18 | .915 (23.2) | 1.040 (26.4) | 1.156 (29.4) | 1.188 (30.2) | 1.062 (27.0) | 1.375 (34.9) | .120 (3.0) |
| 20 | .915 (23.2) | 1.040 (26.4) | 1.282 (32.6) | 1.312 (33.3) | 1.156 (29.4) | 1.500 (38.1) | .120 (3.0) |
| 22 | .915 (23.2) | 1.040 (26.4) | 1.406 (35.7) | 1.438 (36.5) | 1.250 (31.8) | 1.625 (41.3) | .120 (3.0) |
| 24 | .915 (23.2) | 1.040 (26.4) | 1.532 (38.9) | 1.562 (39.7) | 1.375 (34.9) | 1.750 (44.5) | .147 (3.7) |
| 28 | .915 (23.2) | 1.040 (26.4) | 1.782 (45.3) | 1.812 (46.0) | 1.562 (39.7) | 2.000 (50.8) | .147 (3.7) |
| 32 | .915 (23.2) | 1.040 (26.4) | 2.032 (51.6) | 2.062 (52.4) | 1.750 (44.5) | 2.250 (57.2) | .173 (4.4) |
| 36 | .915 (23.2) | 1.040 (26.4) | 2.282 (58.0) | 2.312 (58.7) | 1.938 (49.2) | 2.500 (63.5) | .173 (4.4) |
| 40 | .915 (23.2) | 1.040 (26.4) | 2.532 (64.3) | 2.562 (65.1) | 2.188 (55.6) | 2.750 (69.9) | .173 (4.4) |
| 44 | .915 (23.2) | 1.040 (26.4) | 2.782 (70.7) | 2.812 (71.4) | 2.375 (60.3) | 3.000 (76.2) | .173 (4.4) |
| 48 | .915 (23.2) | 1.040 (26.4) | 3.032 (77.0) | 3.062 (77.8) | 2.625 (66.7) | 3.250 (82.6) | .173 (4.4) |

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