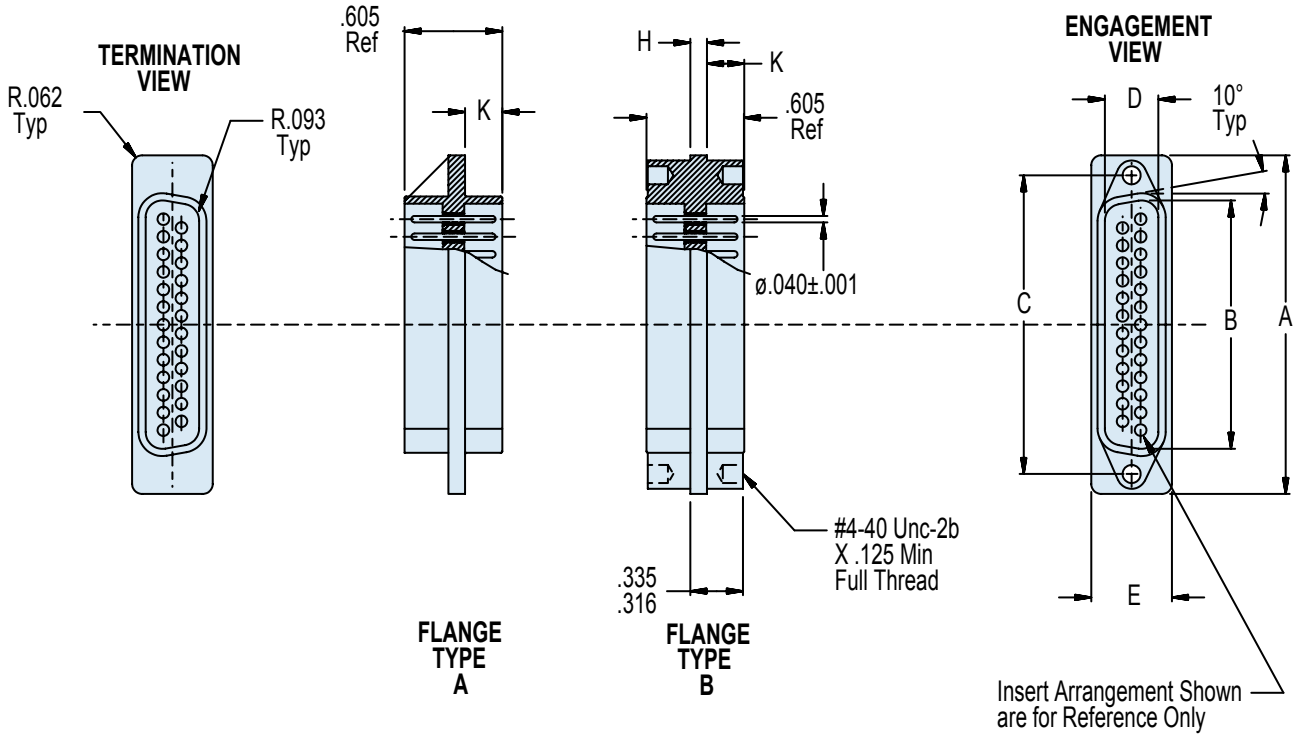
# 280-009
## MIL-DTL-24308/9 Type Hermetic
## D-Subminiature Pin-to-Pin Feedthrough

| 280 | - | 009 | P | 1 | A | C |
|---|---|---|---|---|---|---|
| MIL-DTL-24308/9 D-Subminiature Hermetic | | Connector Style | Class: *FT* = Fused Tin, *Z1* = Passivated, *P* = Nickel Plated | Shell Size | Flange Type: *A* = Solid, *B* = Four #4-40 Lockposts | Contact Style: *C* = Pin-Pin |




### APPLICATION NOTES

1. To be identified with manufacturer's name, part number and date code, space permitting.
2. Contact Style: Pin-to-Pin only (See Part Number Development).
3. All dimensions are typical for flange types "A" and "B." "C" dim is not applicable to flange type "A."
4. Material/Finish:
   Shell: FT = Carbon steel/tin plated.
   Z1 = Stainless steel/passivated.
   P = Stainless steel/nickel plated.
   Insulators: Glass bead/N.A.
   Contacts: Pins, Alloy 52/gold plated
5. Performance:
   DWV - 750 VAC Pin-to-Shell
   I.R. - 5,000 MegOhms Min @ 500 VDC
   Hermeticity - 1 x $10^{-7}$ scc He/sec @1 atmosphere differential
6. Glenair 280-009 will mate with any QPL MIL-DTL-24308/1, /2 and /23 receptacle of the same size and arrangement.
7. Metric dimensions (mm) are indicated in parentheses.

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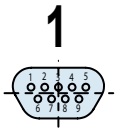
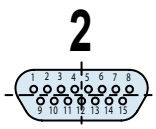
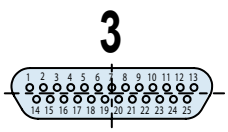


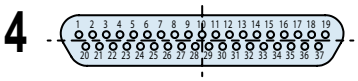

9 CONTACTS



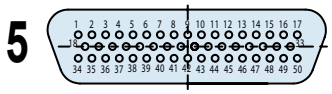

15 CONTACTS




25 CONTACTS




37 CONTACTS



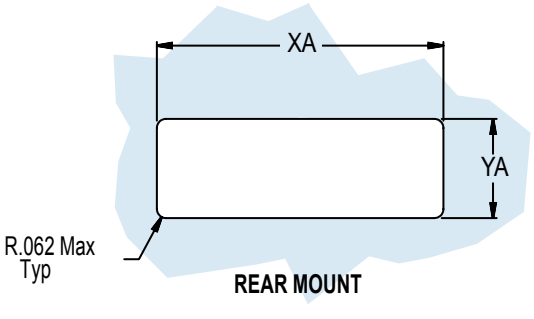

50 CONTACTS

| HERMETIC LEAK RATE MOD CODES | |
|---|---|
| **Designator** | **Required Leak Rate** |
| **–585A** | 1 x $10^{-10}$ cc's Helium per second |
| **–585B** | 1 x $10^{-9}$ cc's Helium per second |
| **–585C** | 1 x $10^{-8}$ cc's Helium per second |

**TABLE I: CONNECTOR DIMENSIONS**

| Shell Size | Dim A ± .015 (± 0.4) | Dim B ± .004 (± 0.1) | Dim C ± .005 (± 0.1) | Dim D ± .004 (± 0.1) | Dim E ± .010 (± 0.3) | Dim H ± .006 (± 0.2) | Dim K ± .010 (± 0.3) |
|---|---|---|---|---|---|---|---|
| **1** | 1.213 (30.8) | .667 (16.9) | .984 (25.0) | .330 (8.4) | .498 (12.6) | .094 (2.4) | .235 (6.0) |
| **2** | 1.541 (39.1) | .993 (25.2) | 1.312 (33.3) | .330 (8.4) | .498 (12.6) | .094 (2.4) | .235 (6.0) |
| **3** | 2.088 (53.0) | 1.535 (39.0) | 1.852 (47.0) | .330 (8.4) | .498 (12.6) | .103 (2.6) | .230 (5.8) |
| **4** | 2.729 (14.7) | 2.183 (55.4) | 2.500 (63.5) | .330 (8.4) | .498 (12.6) | .103 (2.6) | .230 (5.8) |
| **5** | 2.635 (66.9) | 2.079 (52.8) | 2.406 (61.1) | .441 (11.2) | .610 (15.5) | .103 (2.6) | .230 (5.8) |

**RECOMMENDED PANEL CUTOUT**
**SEE TABLE 2**



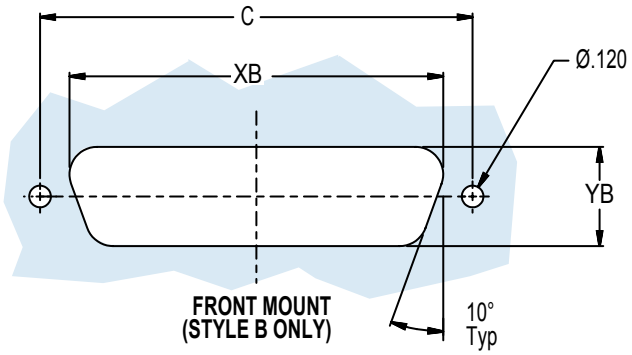




**TABLE II: PANEL CUT-OUT DIMENSIONS**

| Shell Sizes | Style A | | Style B | | |
|---|---|---|---|---|---|
| | Dim XA | Dim YA | Dim XB | Dim YB | Dim C |
| **1** | .745 (18.9) | .385 (9.8) | .799 (20.3) | .462 (11.7) | .982 (25.0) |
| **2** | .950 (24.1) | .385 (9.8) | 1.125 (28.6) | .462 (11.7) | 1.312 (33.3) |
| **3** | 1.495 (38.0) | .385 (9.8) | 1.690 (42.9) | .462 (11.7) | 1.852 (47.0) |
| **4** | 2.145 (54.5) | .385 (9.8) | 2.335 (59.3) | .462 (11.7) | 2.500 (63.5) |
| **5** | 2.015 (51.2) | .520 (13.2) | 2.231 (56.7) | .588 (14.9) | 2.406 (61.1) |