MIL-DTL-24308/9 Type Hermetic
Glass-Sealed D-Subminiature Connector
Front Mount O-Ring Seal

287-018

Connector Style
287

Shell Size
018

Class
K

Flange Type
1

Contact Style
A

O-Ring Material
P

Contact Style
(Pin Only)

P = Solder Cup

X = Eyelet

MIL-DTL-24308/9
D-Subminiature Hermetic

APPLICATION NOTES

1. To be identified with manufacturer’s name, part number and date code, space permitting.
2. Contact Style: Eyelet or solder cup (see part development).
3. Material/Finish:
   - Shell: H = FT - Carbon steel/tin plated.
   - K = Z16 - Stainless steel/nickel plated dull finish.
   - Insulators: Glass bead/N.A.
   - Contacts: Pins, alloy 52/gold plated.
4. Metric dimensions (mm) are indicated in parentheses.
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. All dimensions are typical for flange types “A” and “B”. “C” dim is not applicable to flange type “A”.
7. Glenair 287-018 will mate with any QPL MIL-DTL-24308/1, /2 and /23 receptacle of the same size and arrangement.

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

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GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912
www.glenair.com
J-19
E-Mail: sales@glenair.com
TABLE I: CONNECTOR DIMENSIONS

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Dim A ±.015 (± 0.4)</th>
<th>Dim B ±.004 (± 0.1)</th>
<th>Dim C ±.005 (± 0.1)</th>
<th>Dim D ±.004 (± 0.1)</th>
<th>Dim E ±.010 (± 0.3)</th>
<th>Dim F ±.010 (± 0.3)</th>
<th>Dim G ±.010 (± 0.3)</th>
<th>Dim H ±.010 (± 0.3)</th>
<th>Dim I ±.006 (± 0.2)</th>
<th>Dim J BSC</th>
<th>M BSC</th>
<th>N ±.005 (± 0.1)</th>
<th>P ±.005 (± 0.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.413 (35.9)</td>
<td>.667 (16.9)</td>
<td>.084 (21.0)</td>
<td>.330 (8.4)</td>
<td>.698 (17.7)</td>
<td>.725 (18.4)</td>
<td>.369 (9.4)</td>
<td>.094 (2.4)</td>
<td>.235 (6.0)</td>
<td>.462 (11.7)</td>
<td>1.177 (29.9)</td>
<td>1.805 (46.0)</td>
<td>.440 (11.2)</td>
</tr>
<tr>
<td>2</td>
<td>1.741 (44.2)</td>
<td>.993 (25.2)</td>
<td>1.312 (33.3)</td>
<td>.330 (8.4)</td>
<td>.698 (17.7)</td>
<td>932 (23.7)</td>
<td>.369 (9.4)</td>
<td>.094 (2.4)</td>
<td>.235 (6.0)</td>
<td>.462 (11.7)</td>
<td>1.499 (38.1)</td>
<td>1.002 (25.5)</td>
<td>.440 (11.2)</td>
</tr>
<tr>
<td>3</td>
<td>2.286 (57.8)</td>
<td>1.535 (38.8)</td>
<td>1.852 (47.0)</td>
<td>.330 (8.4)</td>
<td>.698 (17.7)</td>
<td>1.479 (37.6)</td>
<td>.369 (9.4)</td>
<td>.103 (2.6)</td>
<td>.230 (5.8)</td>
<td>.462 (11.7)</td>
<td>1.972 (50.1)</td>
<td>1.589 (40.4)</td>
<td>.440 (11.2)</td>
</tr>
<tr>
<td>4</td>
<td>2.929 (74.4)</td>
<td>2.183 (55.4)</td>
<td>2.500 (63.5)</td>
<td>.330 (8.4)</td>
<td>.698 (17.7)</td>
<td>2.125 (54.0)</td>
<td>.369 (9.4)</td>
<td>.103 (2.6)</td>
<td>.230 (5.8)</td>
<td>.462 (11.7)</td>
<td>2.693 (68.4)</td>
<td>2.183 (55.4)</td>
<td>.440 (11.2)</td>
</tr>
<tr>
<td>5</td>
<td>2.835 (72.0)</td>
<td>2.079 (52.8)</td>
<td>2.406 (61.1)</td>
<td>.441 (11.2)</td>
<td>.810 (20.6)</td>
<td>2.000 (50.8)</td>
<td>.500 (12.7)</td>
<td>.103 (2.6)</td>
<td>.230 (5.8)</td>
<td>.654 (16.6)</td>
<td>2.599 (66.0)</td>
<td>2.250 (57.2)</td>
<td>.570 (14.5)</td>
</tr>
</tbody>
</table>

**SOLDER CUP ORIENTATION**

- **SIZES 1-4**
- **SIZE 5**

**TABLE II: PANEL CUT-OUT**

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Dim L</th>
<th>Dim M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.745 (18.9)</td>
<td>.462 (11.7)</td>
</tr>
<tr>
<td>2</td>
<td>.950 (24.1)</td>
<td>.462 (11.7)</td>
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<tr>
<td>3</td>
<td>1.495 (38.0)</td>
<td>.462 (11.7)</td>
</tr>
<tr>
<td>4</td>
<td>2.145 (54.5)</td>
<td>2.693 (68.4)</td>
</tr>
<tr>
<td>5</td>
<td>2.015 (51.2)</td>
<td>2.599 (66.0)</td>
</tr>
</tbody>
</table>

**HERMETIC LEAK RATE MOD CODES**

- **–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: O-RING MATERIAL**

<table>
<thead>
<tr>
<th>Dash Number</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Viton®</td>
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<tr>
<td>-1</td>
<td>Nitrile</td>
</tr>
<tr>
<td>-2</td>
<td>Fluorosilicone</td>
</tr>
<tr>
<td>-3</td>
<td>Silicone</td>
</tr>
<tr>
<td>CE*</td>
<td>Conductive Epdm</td>
</tr>
<tr>
<td>CF*</td>
<td>Conductive Fluorosilicone</td>
</tr>
<tr>
<td>CS*</td>
<td>Conductive Silicone</td>
</tr>
</tbody>
</table>

*Customer to specify Chomerics® compound of choice.

Example:

CF1217 = Silver-Plated copper in fluorosilicone

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