



# 177-705H and 177-706H

## MIL-DTL-83513 Type Micro-D Hermetic Connectors

### Rear Panel Mount with O-Ring



**Fluorosilicone O-Ring** eliminates the cost of soldering the connector to a bulkhead.

**Kovar® Shells and Contacts** comply with applicable MIL-DTL-83513 requirements and are 100% intermateable with standard connectors.

#### Solder Cup, PC Tail or Pre-Wired and Fully Potted

Suitable for #26 gage wire or smaller, solder cup versions feature gold-plated contacts. Choose PC tails for attachment to flex circuits or rigid boards. Solder cup versions are also available pre-wired and potted.

#### HOW TO ORDER SOLDER CUP AND PC TAIL CONNECTORS

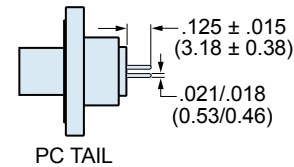
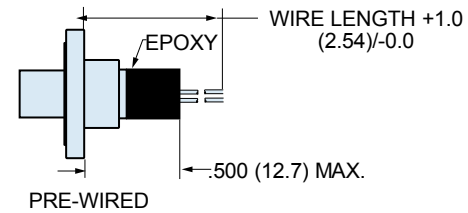
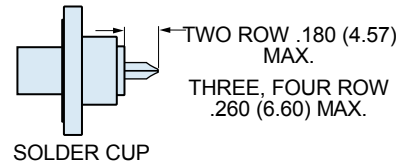
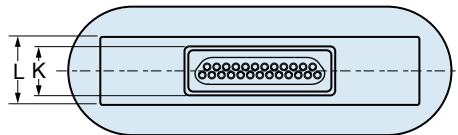
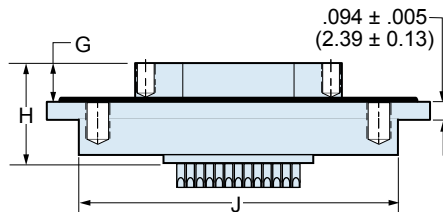
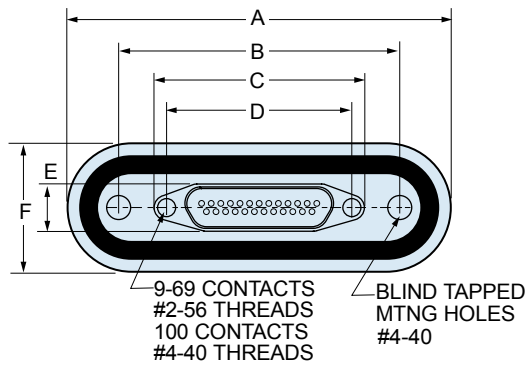
| Series                                                                                                              | Layout<br>Number of Contacts                                                                                        | Contact Type                                                        | Mounting Threads                               | O-Ring Material                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>177-705H</b><br>Micro-D Hermetic Socket<br>Receptacle, Rear Panel Mount<br>with O-Ring, Solder Cup or PC<br>Tail | <b>9</b><br><b>15</b><br><b>21</b><br><b>25</b><br><b>31</b><br><b>37</b><br><b>51-2</b><br><b>51</b><br><b>100</b> | <b>SS</b> – Solder Cup,<br>Socket<br><b>SP</b> – PC Tail,<br>Socket | <b>U</b> – #4 - 40 UNC<br><b>M</b> – M3 Metric | <b>C</b> = Fluorosilicone,<br>Conductive (Choseal 1298)<br><b>E</b> = Epdm (Ethylene-Propylene)<br><b>V</b> = Viton (Fluorocarbon; Fkm)<br><b>N</b> = Nitrile (Buna-N)<br><b>S</b> = Silicone (ZZ-R-765)<br><b>B</b> = Butyl Rubber (Iir)<br><b>K</b> = Kalrez (Ffkm) |
| <b>Sample Part Number</b>                                                                                           |                                                                                                                     |                                                                     |                                                |                                                                                                                                                                                                                                                                       |
| <b>177-705H</b>                                                                                                     | <b>15</b>                                                                                                           | <b>SS</b>                                                           | <b>U</b>                                       | <b>-V</b>                                                                                                                                                                                                                                                             |

#### HOW TO ORDER PRE-WIRED CONNECTORS

| Series                    | Layout                                                                                                              | Contact Type                               | Wire Gage (AWG)                                    | Wire Type                                                                                                                                                                 | Wire Color                                                                                                                                                    | Wire Length Inches                                                     | Mounting Threads                                  | O-Ring Material                                                                                                                                                                                                                                                    |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>177-706H</b>           | <b>9</b><br><b>15</b><br><b>21</b><br><b>25</b><br><b>31</b><br><b>37</b><br><b>51-2</b><br><b>51</b><br><b>100</b> | <b>S</b> – Socket<br>Contacts<br>Pre-Wired | <b>6</b> – #26<br><b>8</b> – #28<br><b>0</b> – #30 | <b>K</b> – M22759/11<br>600 Vrms<br>Teflon<br>(TFE) (Not<br>Available in<br>#30 AWG)<br><b>J</b> – M22759/33<br>600 Vrms<br>Modified<br>Cross-<br>Linked Tefzel<br>(ETFE) | <b>1</b> – White<br><b>2</b> – Yellow<br><b>5</b> – Color-<br>Coded<br>Stripes<br>Per MIL-<br>STD-681<br>(#26 gage<br>only)<br><b>7</b> – Ten Color<br>Repeat | <b>18</b><br>Wire Length<br>In Inches. "18"<br>Specifies 18<br>Inches. | <b>M</b> - M3<br>Metric, Omit<br>for #4-40<br>UNC | <b>C</b> = Fluorosilicone,<br>Conductive<br><b>E</b> = EPDM<br>(Ethylene-Propylene)<br><b>V</b> = Viton<br>(Fluorocarbon; FKM)<br><b>N</b> = Nitrile (BUNA-N)<br><b>S</b> = Silicone<br>(ZZ-R-765)<br><b>B</b> = Butyl Rubber<br>(IIR)<br><b>K</b> = Kalrez (FFKM) |
| <b>Sample Part Number</b> |                                                                                                                     |                                            |                                                    |                                                                                                                                                                           |                                                                                                                                                               |                                                                        |                                                   |                                                                                                                                                                                                                                                                    |
| <b>177-706H</b>           | <b>25</b>                                                                                                           | <b>S</b>                                   | <b>6</b>                                           | <b>K</b>                                                                                                                                                                  | <b>1</b>                                                                                                                                                      | <b>- 18</b>                                                            | <b>M</b>                                          | <b>-V</b>                                                                                                                                                                                                                                                          |

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

**177-705H and 177-706H**  
**MIL-DTL-83513 Type Micro-D Hermetic Connectors**  
**Rear Panel Mount with O-Ring**



**DIMENSIONS**

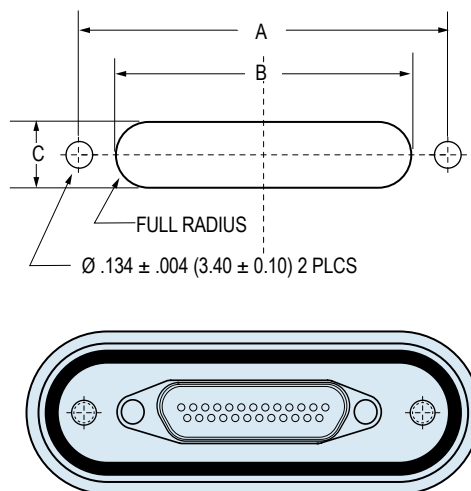
| Layout           | A Max. |       | B     |       | C MAX. |       | D     |       | E MAX. |      | F Max. |       | G    |      | H Max. |       | J     |       | K    |      | L Max. |      |
|------------------|--------|-------|-------|-------|--------|-------|-------|-------|--------|------|--------|-------|------|------|--------|-------|-------|-------|------|------|--------|------|
|                  | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.   | mm.   | In.    | mm.  | In.    | mm.   | In.  | mm.  | In.    | mm.   | In.   | mm.   | In.  | mm.  | In.    | mm.  |
| <b>9S</b>        | 1.488  | 37.80 | 1.011 | 25.67 | .728   | 18.49 | .565  | 14.35 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.254 | 31.85 | .257 | 6.89 | .358   | 9.09 |
| <b>15S</b>       | 1.638  | 41.61 | 1.161 | 29.48 | .878   | 22.30 | .715  | 18.16 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.414 | 36.91 | .257 | 6.89 | .358   | 9.09 |
| <b>21S</b>       | 1.788  | 45.42 | 1.311 | 33.29 | 1.028  | 32.51 | .865  | 21.97 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.564 | 39.72 | .257 | 6.89 | .358   | 9.09 |
| <b>25S</b>       | 1.888  | 47.96 | 1.411 | 35.83 | 1.128  | 28.65 | .965  | 24.51 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.664 | 42.26 | .257 | 6.89 | .358   | 9.09 |
| <b>31S</b>       | 2.038  | 51.76 | 1.561 | 39.64 | 1.278  | 32.46 | 1.115 | 28.32 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.814 | 46.07 | .257 | 6.89 | .358   | 9.09 |
| <b>37S</b>       | 2.188  | 55.57 | 1.711 | 43.45 | 1.428  | 36.27 | 1.265 | 32.13 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 1.984 | 50.39 | .257 | 6.89 | .358   | 9.09 |
| <b>51S 2 Row</b> | 2.538  | 64.47 | 2.061 | 52.35 | 1.778  | 45.16 | 1.615 | 41.02 | .250   | 6.35 | .675   | 17.14 | .195 | 4.95 | .526   | 13.36 | 2.334 | 59.28 | .257 | 6.89 | .358   | 9.09 |
| <b>51S 3 Row</b> | 2.138  | 54.30 | 1.661 | 42.19 | 1.378  | 35.00 | 1.215 | 30.86 | .310   | 7.87 | .715   | 18.16 | .195 | 4.95 | .526   | 13.36 | 1.920 | 48.77 | .257 | 6.89 | .358   | 9.09 |
| <b>100S</b>      | 2.820  | 71.63 | 2.312 | 58.72 | 2.002  | 50.85 | 1.800 | 45.72 | .330   | 8.38 | .795   | 20.19 | .195 | 4.95 | .599   | 15.21 | 2.569 | 65.25 | .257 | 6.89 | .358   | 9.09 |

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



# 177-705H and 177-706H MIL-DTL-83513 Type Micro-D Hermetic Connectors Rear Panel Mount with O-Ring

## PANEL CUTOUT DIMENSIONS FOR 177-705 AND 177-706



K

| Layout          | A          |            | B                |                  | C                |                  |
|-----------------|------------|------------|------------------|------------------|------------------|------------------|
|                 | In. ± .003 | mm. ± 0.08 | In. +.005 / -0.0 | mm. +0.13 / -0.0 | In. +.005 / -0.0 | mm. +0.13 / -0.0 |
| <b>9</b>        | 1.011      | 25.69      | .731             | 18.56            | .252             | 6.40             |
| <b>15</b>       | 1.161      | 29.50      | .881             | 22.37            | .252             | 6.40             |
| <b>21</b>       | 1.311      | 33.31      | 1.031            | 26.18            | .252             | 6.40             |
| <b>25</b>       | 1.411      | 35.85      | 1.131            | 28.72            | .252             | 6.40             |
| <b>31</b>       | 1.561      | 39.66      | 1.281            | 32.53            | .252             | 6.40             |
| <b>37</b>       | 1.711      | 43.47      | 1.431            | 36.34            | .252             | 6.40             |
| <b>51 2 row</b> | 2.061      | 52.35      | 1.781            | 45.24            | .252             | 6.40             |
| <b>51 3 row</b> | 1.661      | 42.19      | 1.381            | 35.08            | .310             | 7.87             |
| <b>100</b>      | 2.312      | 58.72      | 2.005            | 50.93            | .330             | 8.38             |

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

© 2013 Glenair, Inc.

U.S. CAGE Code 06324

Printed in U.S.A.