

# 803-006

## Series 803 Mighty Mouse Hermetic Receptacles with ¼ Turn Bayonet Coupling How to Order Information



**Series 803 Hermetic  
Jam Nut Mount**

**Series 803 Hermetic Receptacles** feature 304L stainless steel shells, fused vitreous glass insulators and gold-plated Alloy 52 iron alloy contacts.

**1 X 10<sup>-7</sup> cc/second** maximum Helium leak rate when tested at 1 atmosphere vacuum.

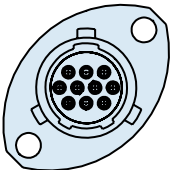
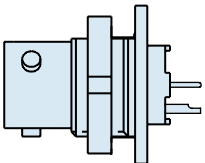
**Two Shell Styles** are available: Jam Nut and Flange Mount.

**Solder Cup Contacts** accept up to #22 AWG stranded wire. Or, choose **Printed Circuit Board Contacts** for attachment to rigid boards or flexible circuits.

| HERMETIC LEAK RATE MOD CODES |                                            |
|------------------------------|--------------------------------------------|
| Designator                   | Required Leak Rate                         |
| -585A                        | 1 x 10 <sup>-10</sup> cc Helium per second |
| -585B                        | 1 x 10 <sup>-9</sup> cc Helium per second  |
| -585C                        | 1 x 10 <sup>-8</sup> cc Helium per second  |

### HOW TO ORDER

#### Sample Part Number

| 803-006                                                                                           | -07                                                                                                                                                                                                                                  | Z1                                                                                                                                                                                                  | 9-19                                  | P                                                                                                                                     | N                                                                                      |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Series                                                                                            | Shell Style                                                                                                                                                                                                                          | Shell Material / Finish                                                                                                                                                                             | Shell Size/Insert                     | Contact Type                                                                                                                          | Shell Key Position                                                                     |
| <b>803-006</b><br>Hermetic Receptacles with Printed Circuit Board Contacts or Solder Cup Contacts | <br><b>-02</b><br>Flange Mount<br><br><br><b>-07</b><br>Jam Nut | <b>Z1</b><br>Stainless Steel / Passivated<br><br><b>ZL</b><br>Stainless Steel/ Nickel Plated<br><br>*Titanium and Inconel® shell materials are available. Consult factory for ordering information. | See Page C-4 for Contact Arrangements | <b>P</b><br>Pin, Solder Cup<br><br><b>C</b><br>Pin, PC Tail<br><br><b>S</b><br>Socket, Solder Cup<br><br><b>D</b><br>Sockets, PC Tail | <b>N</b><br>Normal<br><br>Alternate Key Positions:<br><b>X</b><br><b>Y</b><br><b>Z</b> |

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

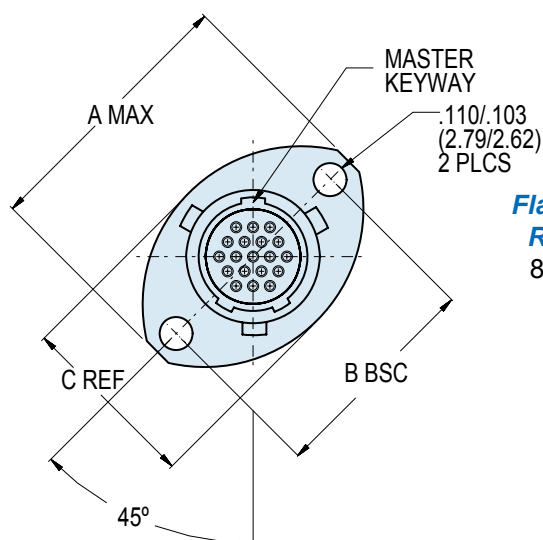


# 803-006-02 and 803-006-07

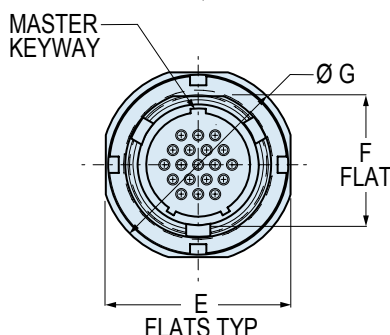
## Series 803 Mighty Mouse Hermetic Receptacles

### ¼ Turn Bayonet Coupling Flange Mount and Jam Nut Connector Dimensions

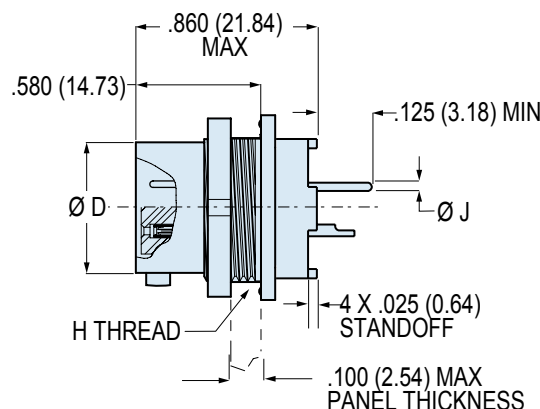
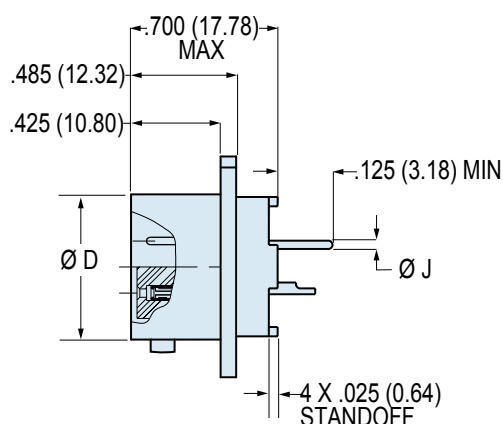
C



**Flange Mount  
Receptacle**  
803-006-02



**Jam Nut  
Receptacle**  
803-006-07



## DIMENSIONS

| Shell<br>Size | A Max. |       | B Bsc. |       | C Ref. |       | Ø D  |       | E Flats |       | F Flat |       | Ø G   |       | H Thread         | Ø J<br>Tail Dia.                |
|---------------|--------|-------|--------|-------|--------|-------|------|-------|---------|-------|--------|-------|-------|-------|------------------|---------------------------------|
|               | In.    | mm.   | In.    | mm.   | In.    | mm.   | In.  | mm.   | In.     | mm.   | In.    | mm.   | In.   | mm.   |                  |                                 |
| 5             | .703   | 17.86 | .513   | 13.03 | .460   | 11.68 | .300 | 7.62  | .545    | 13.84 | .350   | 8.89  | .575  | 14.61 | .3750-32 UNEF-2A | #23<br>.018/.022<br>(0.46/0.56) |
| 6             | .788   | 20.02 | .598   | 15.19 | .522   | 13.26 | .362 | 9.19  | .595    | 15.11 | .410   | 10.42 | .635  | 16.13 | .4375-28 UNEF-2A | #20<br>.024/.028<br>(0.61/0.71) |
| 7             | .890   | 22.61 | .708   | 17.98 | .590   | 14.99 | .436 | 11.07 | .723    | 18.36 | .536   | 13.61 | .755  | 19.18 | .5625-32 UN-2A   | #16<br>.060/.064<br>(1.52/1.63) |
| 8             | 1.154  | 29.31 | .964   | 24.49 | .668   | 16.97 | .508 | 12.91 | .790    | 20.07 | .593   | 15.10 | .755  | 19.18 | .6250-32 UN-2A   | #12<br>.092/.096<br>(2.34/2.44) |
| 9             | 1.207  | 30.66 | 1.017  | 25.83 | .721   | 18.31 | .561 | 14.25 | .790    | 20.07 | .593   | 15.10 | .830  | 21.08 | .6250-28 UN-2A   |                                 |
| 10            | 1.291  | 32.79 | 1.101  | 27.97 | .795   | 20.19 | .635 | 16.13 | .925    | 23.51 | .721   | 18.31 | .890  | 22.61 | .7500-28 UN-2A   |                                 |
| 12            | 1.394  | 35.41 | 1.204  | 30.58 | .874   | 22.20 | .714 | 18.14 | 1.044   | 26.52 | .845   | 21.46 | 1.078 | 27.38 | .8750-28 UN-2A   |                                 |
| 14            | 1.545  | 39.24 | 1.280  | 32.51 | 1.050  | 26.67 | .865 | 21.97 | 1.230   | 31.24 | 1.022  | 25.96 | 1.264 | 32.11 | 1.0625-20 UN-2A  |                                 |

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