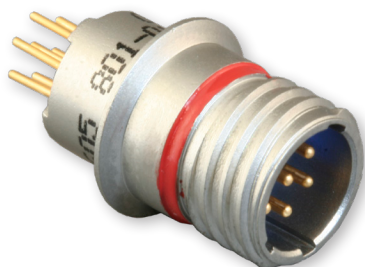




801-012

## Series 801 Mighty Mouse Hermetic Receptacle Double-Start ACME Threads How to Order Information



**Series 801 Hermetic Receptacles** feature 304L stainless steel shells, fused vitreous glass insulators and Alloy 52 iron alloy contacts.

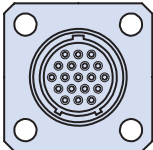
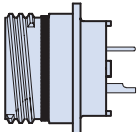
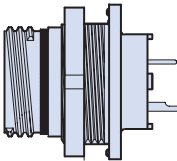
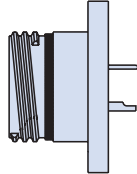
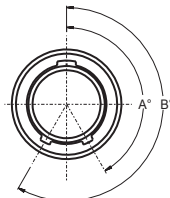
**1 X 10<sup>-7</sup> cc/second** maximum helium leak rate.

**Four Shell Styles:** solder mount, jam nut, square flange or weld Mount.

**Solder Cup Contacts** or **PC Tail Contacts** for attachment to flexible or rigid circuits or rigid boards.

### Series 801 Solder Mount Hermetic

#### HOW TO ORDER

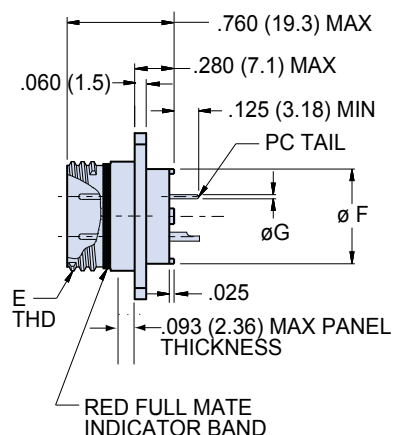
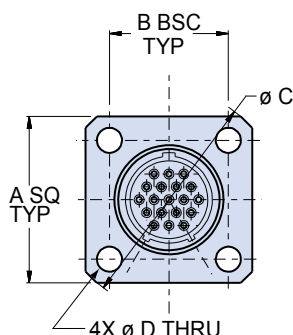
| HOW TO ORDER                                                                                      |                                                                                                                   |                                                                                                 |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|----------|------|------|----------|-----|------|----------|-----|------|----------|------|------|----------|-----|------|----------|-----|------|
| Sample Part Number                                                                                |                                                                                                                   |                                                                                                 |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| 801-012                                                                                           | -03                                                                                                               | Z1                                                                                              | 7-10                                  | P                              | A                                                                                                                                                                                                                                                                                                                                                                                         |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| Series                                                                                            | Shell Style                                                                                                       | Shell Material / Finish                                                                         | Shell Size/Insert Arrangement         | Contact Type                   | Shell Key Position                                                                                                                                                                                                                                                                                                                                                                        |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>801-012</b><br>Hermetic Receptacles with Printed Circuit Board Contacts or Solder Cup Contacts | <br><b>-02</b><br>Square Flange | <b>Z1</b><br>Stainless Steel / Passivated                                                       | See Page C-4 for Contact Arrangements | <b>P</b><br>Pin, Solder Cup    | <b>A</b><br>Normal                                                                                                                                                                                                                                                                                                                                                                        |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   | <br><b>-03</b><br>Solder Mount | <b>ZL</b><br>Stainless Steel / Nickel Plated                                                    |                                       | <b>C</b><br>Pin, PC Tail       | <b>B</b><br>Pos. B                                                                                                                                                                                                                                                                                                                                                                        |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   | <br><b>-07</b><br>Jam Nut      | *Titanium and Inconel® shell materials are available. Consult factory for ordering information. |                                       | <b>S</b><br>Socket, Solder Cup | <b>C</b><br>Pos. C                                                                                                                                                                                                                                                                                                                                                                        |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   | <br><b>-13</b><br>Weld Mount   |                                                                                                 |                                       | <b>D</b><br>Sockets, PC Tail   | <b>D</b><br>Pos. D                                                                                                                                                                                                                                                                                                                                                                        |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   |                                                                                                                   |                                                                                                 |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           | <b>E</b><br>Pos. E |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   |                                                                                                                   |                                                                                                 |                                       | <b>F</b><br>Pos. F             |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   |                                                                                                                   |                                                                                                 |                                       |                                |                                                                                                                                                                                                                                                                                                      |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
|                                                                                                   |                                                                                                                   |                                                                                                 |                                       |                                | <table><tr><td></td><td><b>A°</b></td><td><b>B°</b></td></tr><tr><td><b>A</b></td><td>150°</td><td>210°</td></tr><tr><td><b>B</b></td><td>75°</td><td>210°</td></tr><tr><td><b>C</b></td><td>95°</td><td>230°</td></tr><tr><td><b>D</b></td><td>140°</td><td>275°</td></tr><tr><td><b>E</b></td><td>75°</td><td>275°</td></tr><tr><td><b>F</b></td><td>95°</td><td>210°</td></tr></table> |                    | <b>A°</b> | <b>B°</b> | <b>A</b> | 150° | 210° | <b>B</b> | 75° | 210° | <b>C</b> | 95° | 230° | <b>D</b> | 140° | 275° | <b>E</b> | 75° | 275° | <b>F</b> | 95° | 210° |
|                                                                                                   | <b>A°</b>                                                                                                         | <b>B°</b>                                                                                       |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>A</b>                                                                                          | 150°                                                                                                              | 210°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>B</b>                                                                                          | 75°                                                                                                               | 210°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>C</b>                                                                                          | 95°                                                                                                               | 230°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>D</b>                                                                                          | 140°                                                                                                              | 275°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>E</b>                                                                                          | 75°                                                                                                               | 275°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |
| <b>F</b>                                                                                          | 95°                                                                                                               | 210°                                                                                            |                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |           |          |      |      |          |     |      |          |     |      |          |      |      |          |     |      |          |     |      |

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

**801-012-02**  
**Series 801 Mighty Mouse Hermetic Receptacles**  
**Double-Start ACME Threads • Square Flange**  
**Connector Dimensions**



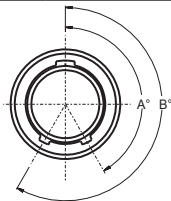
| HERMETIC LEAK RATE MOD CODES |                                            |
|------------------------------|--------------------------------------------|
| Designator                   | Required Leak Rate                         |
| -585A                        | 1 x 10 <sup>-10</sup> cc Helium per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



**C**

| DIMENSIONS    |       |       |       |       |       |       |              |               |                   |       |       |                                 |
|---------------|-------|-------|-------|-------|-------|-------|--------------|---------------|-------------------|-------|-------|---------------------------------|
| Shell<br>Size | A SQ  |       | B BSC |       | Ø C   |       | Ø D          |               | E<br>Thread       | Ø F   |       | Ø G<br>Tail Dia                 |
|               | In.   | mm.   | In.   | mm.   | In.   | mm.   | In.<br>±.003 | mm.<br>± 0.08 |                   | In.   | mm.   |                                 |
|               |       |       |       |       |       |       |              |               |                   |       |       |                                 |
| 5             | .530  | 13.46 | .363  | 9.22  | .680  | 17.27 | .093         | 2.36          | .3125-.05P-.1L-2A | .244  | 6.20  | #23<br>.018/.022<br>(0.46/0.56) |
| 6             | .590  | 14.99 | .423  | 10.74 | .750  | 19.05 | .093         | 2.36          | .375-.05P-.1L-2A  | .330  | 8.38  |                                 |
| 7             | .650  | 16.51 | .483  | 12.27 | .850  | 21.59 | .093         | 2.36          | .4375-.05P-.1L2A  | .432  | 10.97 |                                 |
| 8             | .712  | 18.08 | .545  | 13.84 | .938  | 23.83 | .093         | 2.36          | .5000-.05P-.1L2A  | .493  | 12.52 |                                 |
| 9             | .850  | 21.59 | .607  | 15.42 | 1.125 | 28.58 | .128         | 3.25          | .5625-.05P-.1L-2A | .551  | 14.00 | #16<br>.060/.064<br>(1.52/1.63) |
| 10            | .890  | 22.61 | .670  | 17.02 | 1.188 | 30.18 | .128         | 3.25          | .6250-.05P-.1L2A  | .620  | 15.75 |                                 |
| 11            | .935  | 23.75 | .715  | 18.16 | 1.250 | 31.75 | .128         | 3.25          | .6875-.05P-.1L2A  | .662  | 16.81 |                                 |
| 13            | 1.030 | 26.16 | .812  | 20.62 | 1.375 | 34.93 | .128         | 3.25          | .8125-.1P-.2L-2A  | .703  | 17.86 |                                 |
| 16            | 1.219 | 31.96 | .981  | 24.92 | 1.625 | 41.28 | .128         | 3.25          | 1.000-.1P-.2L-2A  | .863  | 21.92 | #12<br>.092/.096<br>(2.34/2.44) |
| 17            | 1.280 | 32.51 | 1.060 | 26.92 | 1.700 | 43.18 | .128         | 3.25          | 1.062-.1P-.2L-2A  | .912  | 23.16 |                                 |
| 19            | 1.432 | 36.37 | 1.191 | 30.25 | 1.900 | 48.26 | .128         | 3.25          | 1.1875-.1P-.2L-2A | 1.018 | 25.86 |                                 |
| 21            | 1.565 | 39.75 | 1.322 | 33.58 | 2.100 | 53.34 | .128         | 3.25          | 1.3125-.1P-.2L-2A | 1.170 | 29.72 |                                 |

**KEY POSITIONS**



|   | A°   | B°   |
|---|------|------|
| A | 150° | 210° |
| B | 75°  | 210° |
| C | 95°  | 230° |
| D | 140° | 275° |
| E | 75°  | 275° |
| F | 95°  | 210° |

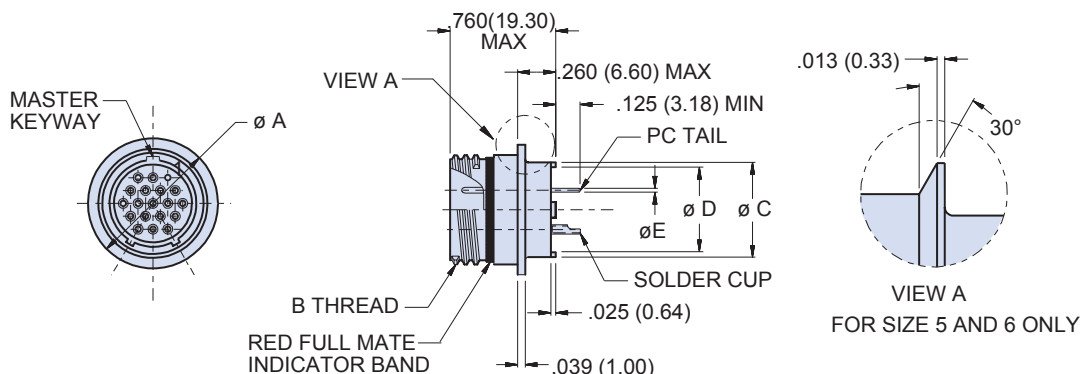


# 801-012-03

## Series 801 Mighty Mouse Hermetic Receptacles

### Double-Start ACME Threads • Solder Mount

### Connector Dimensions



**Solder Mount Hermetic**  
801-012-03

#### DIMENSIONS

| Shell Size | Ø A   |       | B Thread          | Ø C   |       | Ø D   |       | Ø E Tail Dia.                   |
|------------|-------|-------|-------------------|-------|-------|-------|-------|---------------------------------|
|            | In.   | mm.   |                   | In.   | mm.   | In.   | mm.   |                                 |
| 5          | .395  | 10.03 | .3125-.05P-.1L-2A | .244  | 6.20  | .197  | 5.00  | #23<br>.018/.022<br>(0.46/0.56) |
| 6          | .455  | 11.56 | .375-.05P-.1L-2A  | .330  | 8.38  | .236  | 5.99  |                                 |
| 7          | .520  | 13.21 | .4375-.05P-.1L-2A | .432  | 11.97 | .324  | 8.23  |                                 |
| 8          | .580  | 14.73 | .5000-.05P-.1L-2A | .493  | 12.52 | .390  | 9.91  |                                 |
| 9          | .645  | 16.38 | .5625-.05P-.1L-2A | .551  | 14.00 | .444  | 11.28 | #20<br>.024/.028<br>(0.61/0.71) |
| 10         | .705  | 18.01 | .6250-.05P-.1L-2A | .620  | 15.75 | .520  | 13.21 |                                 |
| 11         | .770  | 19.56 | .6875-.05P-.1L-2A | .662  | 16.81 | .557  | 14.15 | #16<br>.060/.064<br>(1.52/1.63) |
| 13         | .895  | 22.73 | .8125-.1P-.2L-2A  | .703  | 17.86 | .596  | 15.14 |                                 |
| 16         | 1.080 | 27.43 | 1.000-.1P-.2L-2A  | .863  | 21.92 | .756  | 19.20 | #12<br>.092/.096<br>(2.34/2.44) |
| 17         | 1.145 | 29.08 | 1.062-.1P-.2L-2A  | .912  | 23.16 | .805  | 20.45 |                                 |
| 19         | 1.270 | 32.26 | 1.1875-.1P-.2L-2A | 1.018 | 25.86 | .910  | 23.11 |                                 |
| 21         | 1.395 | 35.43 | 1.3125-.1P-.2L-2A | 1.170 | 29.72 | 1.061 | 26.95 |                                 |

#### KEY POSITIONS

|   | A°   | B°   |
|---|------|------|
| A | 150° | 210° |
| B | 75°  | 210° |
| C | 95°  | 230° |
| D | 140° | 275° |
| E | 75°  | 275° |
| F | 95°  | 210° |

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

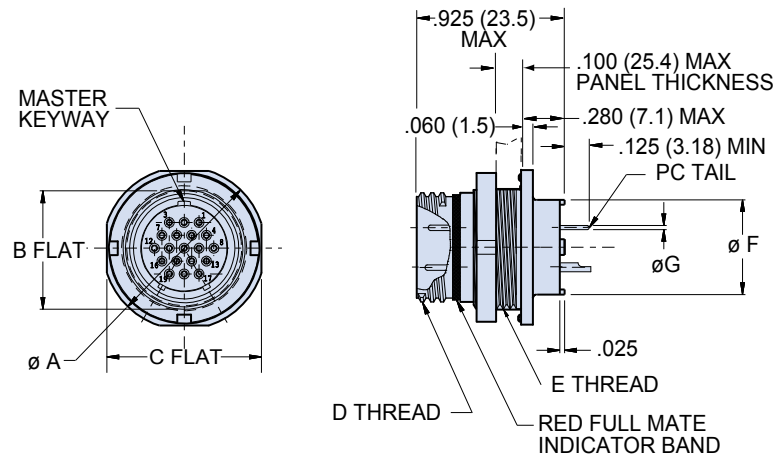
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801-012-07

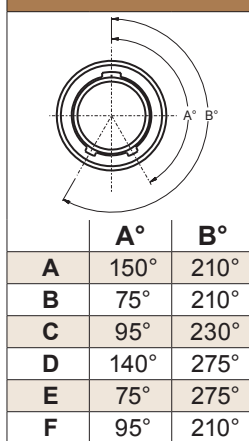
# Series 801 Mighty Mouse Hermetic Receptacle with Double-Start ACME Threads • Jam-Nut Mount Connector Dimensions

Series 80  
Mighty Mouse

## DIMENSIONS

| Shell Size | Ø A   |       | B Flat |       | C Flat |       | D Thread          | E Thread UN-2A | Ø F   |       | Ø G Tail Dia.                   |
|------------|-------|-------|--------|-------|--------|-------|-------------------|----------------|-------|-------|---------------------------------|
|            | In.   | mm.   | In.    | mm.   | In.    | mm.   |                   |                | In.   | mm.   |                                 |
| 5          | .575  | 14.61 | .350   | 8.89  | .545   | 13.84 | .3125-.05P-.1L-2A | .375-28        | .244  | 6.20  | #23<br>.018/.022<br>(0.46/0.56) |
| 6          | .635  | 16.13 | .410   | 10.41 | .595   | 15.11 | .375-.05P-.1L-2A  | .4375-28       | .330  | 8.38  |                                 |
| 7          | .755  | 19.18 | .536   | 13.61 | .723   | 18.36 | .4375-.05P-.1L-2A | .5625-32       | .432  | 10.97 |                                 |
| 8          | .755  | 19.18 | .536   | 13.61 | .723   | 18.36 | .5000-.05P-.1L-2A | .5625-32       | .493  | 12.52 |                                 |
| 9          | .830  | 21.08 | .596   | 15.14 | .790   | 20.07 | .5625-.05P-.1L-2A | .625-28        | .551  | 14.00 |                                 |
| 10         | .890  | 22.61 | .658   | 16.71 | .855   | 21.72 | .6250-.05P-.1L-2A | .6875-28       | .620  | 15.75 |                                 |
| 11         | .960  | 24.38 | .718   | 18.24 | .925   | 23.50 | .6875-.05P-.1L-2A | .7500-28       | .662  | 16.81 |                                 |
| 13         | 1.078 | 27.38 | .845   | 21.46 | 1.044  | 26.52 | .8125-.1P-.2L-2A  | .875-28        | .703  | 17.86 |                                 |
| 16         | 1.264 | 32.11 | 1.022  | 25.96 | 1.230  | 31.24 | 1.000-.1P-.2L-2A  | 1.0625-20      | .863  | 21.92 |                                 |
| 17         | 1.325 | 33.66 | 1.096  | 27.84 | 1.290  | 32.77 | 1.062-.1P-.2L-2A  | 1.1250-28      | .912  | 23.16 |                                 |
| 19         | 1.450 | 36.83 | 1.225  | 31.11 | 1.415  | 35.94 | 1.1875-.1P-.2L-2A | 1.2500-28      | 1.018 | 25.86 | #20<br>.024/.028<br>(0.61/0.71) |
| 21         | 1.625 | 41.28 | 1.345  | 34.16 | 1.577  | 40.06 | 1.3125-.1P-.2L-2A | 1.375-28       | 1.170 | 29.72 |                                 |
|            |       |       |        |       |        |       |                   |                |       |       | #16<br>.060/.064<br>(1.52/1.63) |
|            |       |       |        |       |        |       |                   |                |       |       | #12<br>.092/.096<br>(2.34/2.44) |

## KEY POSITIONS



## SERIES 801 JAM NUT PANEL CUTOUT

| Shell Size | A Flat     |            | Ø B   |       |
|------------|------------|------------|-------|-------|
|            | In. ± .002 | mm. ± 0.05 | In.   | mm.   |
| 5          | .356       | 9.04       | .385  | 9.78  |
| 6          | .416       | 10.57      | .448  | 11.37 |
| 7          | .542       | 13.77      | .573  | 14.55 |
| 8          | .542       | 13.77      | .573  | 14.55 |
| 9          | .602       | 15.29      | .635  | 16.13 |
| 10         | .666       | 16.92      | .698  | 17.73 |
| 11         | .726       | 18.44      | .760  | 19.30 |
| 13         | .851       | 21.62      | .885  | 22.48 |
| 16         | 1.028      | 26.11      | 1.075 | 27.31 |
| 17         | 1.102      | 27.99      | 1.135 | 28.83 |
| 19         | 1.233      | 31.32      | 1.260 | 32.00 |
| 21         | 1.351      | 34.32      | 1.385 | 35.18 |

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

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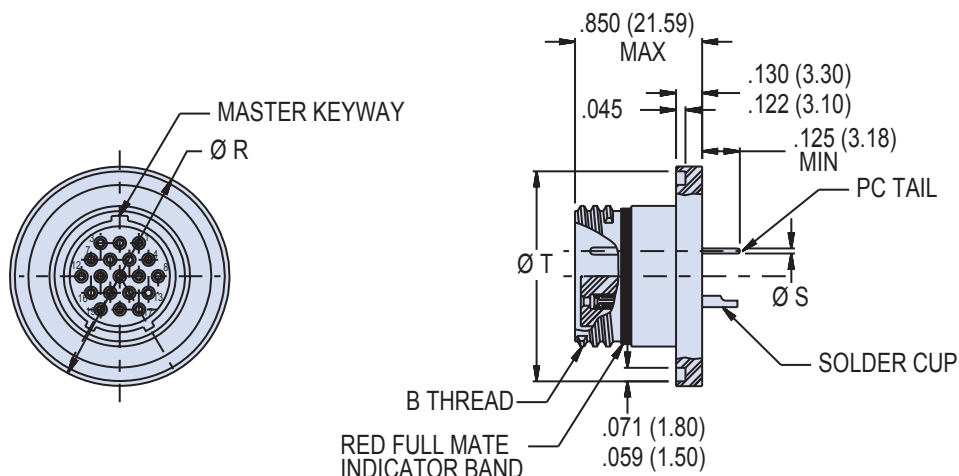
U.S. CAGE Code 06324

Printed in U.S.A.



801-012-13

**Series 801 Mighty Mouse Hermetic Receptacle  
with Double-Start ACME Threads • Weld Mount  
Connector Dimensions**



**DIMENSIONS**

| Shell Size | Ø R   |       | Ø T   |       | Ø S Tail Dia.                                                                                                                                                        |
|------------|-------|-------|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | In.   | mm.   | In.   | mm.   |                                                                                                                                                                      |
| 5          | .600  | 15.24 | .555  | 14.10 | <b>#23</b><br>.018/.022<br>(0.46/0.56)<br><b>#20</b><br>.024/.028<br>(0.61/0.71)<br><b>#16</b><br>.060/.064<br>(1.52/1.63)<br><b>#12</b><br>.092/.096<br>(2.34/2.44) |
| 6          | .665  | 16.89 | .620  | 15.75 |                                                                                                                                                                      |
| 7          | .730  | 18.54 | .685  | 17.40 |                                                                                                                                                                      |
| 8          | .788  | 20.02 | .745  | 18.92 |                                                                                                                                                                      |
| 9          | .912  | 23.16 | .869  | 22.07 |                                                                                                                                                                      |
| 10         | .975  | 24.77 | .933  | 23.70 |                                                                                                                                                                      |
| 11         | 1.062 | 26.97 | 1.019 | 25.88 |                                                                                                                                                                      |
| 13         | 1.162 | 29.51 | 1.119 | 28.42 |                                                                                                                                                                      |
| 16         | 1.288 | 32.72 | 1.245 | 31.62 |                                                                                                                                                                      |
| 17         | 1.360 | 34.54 | 1.315 | 33.40 |                                                                                                                                                                      |
| 19         | 1.495 | 37.97 | 1.452 | 36.88 |                                                                                                                                                                      |
| 21         | 1.625 | 41.28 | 1.580 | 40.13 |                                                                                                                                                                      |

**KEY POSITIONS**

|   | A°   | B°   |
|---|------|------|
| A | 150° | 210° |
| B | 75°  | 210° |
| C | 95°  | 230° |
| D | 140° | 275° |
| E | 75°  | 275° |
| F | 95°  | 210° |

**SERIES 801 WELD MOUNT PANEL CUTOUT**

| Shell Size | Ø U           |               | Ø V Min |       |
|------------|---------------|---------------|---------|-------|
|            | In.<br>± .002 | mm.<br>± 0.05 | In.     | mm.   |
| 5          | .606          | 15.39         | .180    | 4.57  |
| 6          | .671          | 17.04         | .240    | 6.10  |
| 7          | .736          | 18.69         | .330    | 8.38  |
| 8          | .794          | 20.17         | .390    | 9.91  |
| 9          | .918          | 23.32         | .455    | 11.56 |
| 10         | .981          | 24.92         | .520    | 13.21 |
| 11         | 1.068         | 27.13         | .580    | 14.73 |
| 13         | 1.168         | 29.67         | .610    | 15.49 |
| 16         | 1.294         | 32.87         | .775    | 19.69 |
| 17         | 1.366         | 34.70         | .825    | 20.96 |
| 19         | 1.501         | 38.13         | .930    | 23.62 |
| 21         | 1.631         | 41.43         | 1.080   | 27.43 |

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

# Mouser Electronics

Authorized Distributor

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