



# Series 800 Mighty Mouse, UN Mating Thread PCB Receptacle with PC Tails or Solder Cups 800-012 and 800-040 Ordering Information



Rear Panel Mount Jam-Nut

**Environmental, PCB Receptacle** 800-012 connectors feature low profile shells for minimum protrusion inside enclosures and integral board standoffs. Contacts are non-removable. Specify 800-012 connectors for applications where open face water immersion is not a requirement.

**Water Tight PCB Receptacle** 800-040 connectors are identical to 800-012 but are specially sealed ("MOD-518") and 100% tested to maintain a helium leak rate of less than  $1 \times 10^{-4}$  cc/second at one atmosphere pressure differential. Connectors meet MIL-STD-810 Method 512G immersion requirements in unmated/open face condition.

## How To Order

| Sample Part Number              |                                                                                                                                                                                                                                                                                                                            | 800-012 | -07 | M | 7-10 | P | Z |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|---|------|---|---|
| Series                          | 800-012 = Environmental Receptacle with Solder Cups or PC Tails<br>800-040 = Receptacle, same as 800-012,                                                                                                                                                                                                                  |         |     |   |      |   |   |
| Shell Style (See Table I)       | -02 = Square Flange<br>-07 = Jam-Nut (See Jam-Nut Panel Cutout Dimensions Page C-3)                                                                                                                                                                                                                                        |         |     |   |      |   |   |
| Shell Material and Finish       | C = Aluminum / Black Anodize (Non-Conductive) RoHS Compliant<br>M = Aluminum / Electroless Nickel RoHS Compliant<br>NF = Aluminum / Cadmium with Olive Drab Chromate<br>ZNU = Aluminum / Zinc-Nickel with Black Chromate<br>MT = Aluminum / Nickel-PTFE RoHS Compliant<br>Z1 = Stainless Steel / Passivated RoHS Compliant |         |     |   |      |   |   |
| Shell Size - Insert Arrangement | See Contact Arrangements page C-2                                                                                                                                                                                                                                                                                          |         |     |   |      |   |   |
| Contact Type                    | P = Pin, PC Tail      E = Pin, Solder Cup<br>S = Socket, PC Tail      F = Socket, Solder Cup                                                                                                                                                                                                                               |         |     |   |      |   |   |
| Polarization (See Table II)     | N = Normal    X = Pos. X    Y = Pos. Y    Z = Pos. Z                                                                                                                                                                                                                                                                       |         |     |   |      |   |   |

Table I: Shell Style

|                                  |                                        |
|----------------------------------|----------------------------------------|
|                                  |                                        |
| -02<br>Square Flange Front Mount | -07<br>Jam-Nut for Rear Panel Mounting |

## NOTE

- Shell sizes 5 thru 6 and insert arrangement 8-13: master key is located at top dead center (TDC) for normal (N) position.
- Shell size 7 thru 12: master key is rotated 90° from TDC for normal position

Table II: Shell Key Positions<sup>1,2</sup>

| Shell Size 5 and 6 | Shell Size 7 thru 12 |
|--------------------|----------------------|
|                    |                      |
| Key Position       | Key Rotation         |
| N Normal           | 150°                 |
| X                  | 140°                 |
| Y                  | 130°                 |
| Z                  | 120°                 |

## Material / finish:

- Receptacle shell: aluminum alloy or CRES / see How to Order Table
- Insulator: LCP or epoxy / N.A.
- Interfacial seal, O-ring: fluorosilicone rubber
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Class 1.25, over a suitable underplate
- Potting compound: epoxy

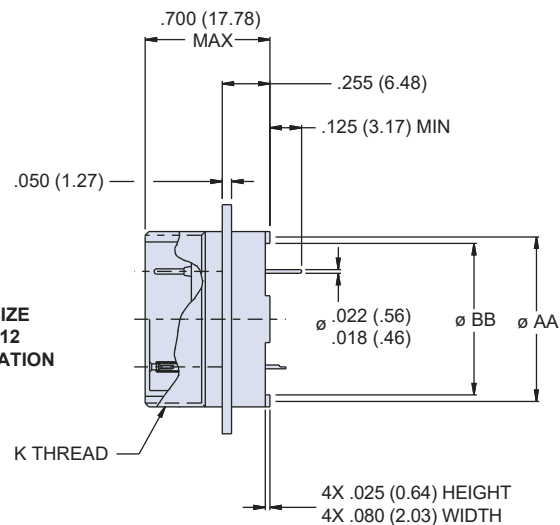
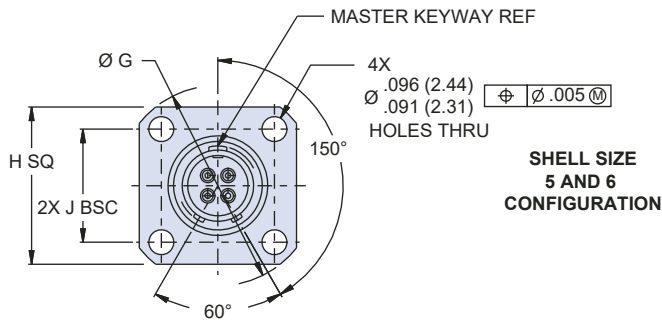
Dimensions in Inches (millimeters) are subject to change without notice.

# Series 800 Mighty Mouse, UN Mating Thread PCB Receptacle with PC Tails or Solder Cups 800-012 and 800-040 Dimensions



Series 800

## Square flange mount receptacle - shell style 02



| Dimensions |               |               |              |                  |              |              |
|------------|---------------|---------------|--------------|------------------|--------------|--------------|
| Shell Size | Ø G           | H SQ          | J BSC        | K Thread         | Ø AA O.D.    | Ø BB I.D.    |
| 5          | .680 (17.27)  | .527 (13.39)  | .363 (9.22)  | .3125-28 UN-2A   | .265 (6.73)  | .186 (4.72)  |
| 6          | .750 (19.05)  | .588 (14.94)  | .423 (10.74) | .3750-28 UN-2A   | .330 (8.38)  | .238 (6.05)  |
| 7          | .850 (21.59)  | .650 (16.51)  | .483 (12.27) | .4375-28 UNEF-2A | .424 (10.77) | .327 (8.31)  |
| 8          | .938 (23.83)  | .710 (18.03)  | .542 (13.77) | .5000-32 UN-2A   | .448 (11.38) | .388 (9.86)  |
| 9          | 1.250 (31.75) | .938 (23.83)  | .719 (18.26) | .5625-32 UN-2A   | .500 (12.70) | .446 (11.33) |
| 10         | 1.250 (31.75) | .938 (23.83)  | .719 (18.26) | .6250-32 UN-2A   | .575 (14.60) | .515 (13.08) |
| 12         | 1.375 (34.92) | 1.031 (26.19) | .812 (20.62) | .7500-28 UN-2A   | .660 (16.76) | .599 (15.21) |

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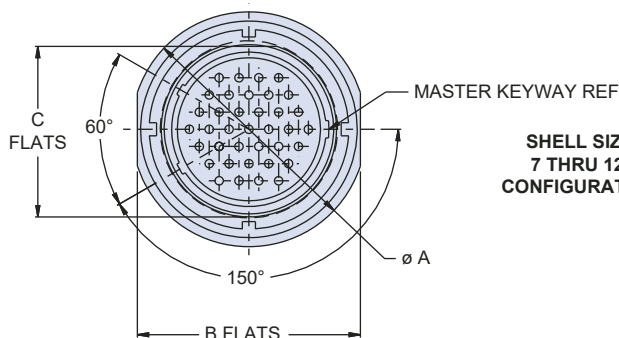


# Series 800 Mighty Mouse, UN Mating Thread PCB Receptacle with PC Tails or Solder Cups 800-012 and 800-040 Dimensions

## Jam-nut mount receptacle - shell style 07



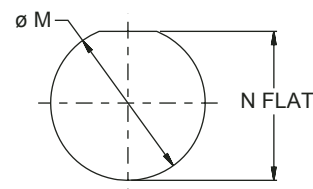
**SHELL SIZE  
5 AND 6  
CONFIGURATION**



**SHELL SIZE  
7 THRU 12  
CONFIGURATION**



| Dimensions |               |              |              |                  |                                   |                       |
|------------|---------------|--------------|--------------|------------------|-----------------------------------|-----------------------|
| Shell Size | Ø A           | B Flat       | C Flat       | D Thread         | Panel Cutout                      |                       |
|            |               |              |              |                  | Ø M<br>+.005 (.13)<br>-.000 (.00) | N Flat<br>±.002 (.05) |
| 5          | .541 (13.74)  | .500 (12.70) | .285 (7.24)  | .3125-28 UN-2A   | .317 (8.05)                       | .297 (7.54)           |
| 6          | .610 (15.49)  | .562 (14.27) | .352 (8.94)  | .3750-28 UN-2A   | .380 (9.65)                       | .360 (9.14)           |
| 7          | .670 (17.02)  | .635 (16.13) | .411 (10.44) | .4375-28 UNEF-2A | .443 (11.25)                      | .426 (10.82)          |
| 8          | .775 (19.68)  | .735 (18.67) | .473 (12.01) | .5000-32 UN-2A   | .505 (12.83)                      | .481 (12.22)          |
| 9          | .875 (22.23)  | .806 (20.47) | .530 (13.46) | .5625-32 UN-2A   | .567 (14.40)                      | .539 (13.69)          |
| 10         | .980 (24.89)  | .940 (23.88) | .604 (15.34) | .6250-32 UN-2A   | .630 (16.00)                      | .610 (15.49)          |
| 12         | 1.062 (26.97) | .986 (25.04) | .712 (18.08) | .7500-28 UN-2A   | .755 (19.18)                      | .717 (18.21)          |



**Jam-Nut Panel Cut Out**

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