

# Series 804 Push-Pull Mighty Mouse PC Tail or Solder Cup Receptacle 804-005, 804-020 Ordering Information



Series 804



**Panel Mount Receptacles** feature factory-installed non-removable contacts. Choose solder cup or PC Tail terminals. Available in front or rear panel mount versions. Specify **804-005** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify **804-020** watertight connectors. These 804-020 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of  $1 \times 10^{-4}$  cc/second at one atmosphere pressure differential

| How To Order                    |                                                                                                                                                                                                                                                                                                                                                                         |         |     |    |     |     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|----|-----|-----|
| Sample Part Number              |                                                                                                                                                                                                                                                                                                                                                                         | 804-005 | -07 | NF | 9-4 | E A |
| Series                          | <b>804-005</b> = Solder Cup or PCB Receptacle with Standard Potting<br><b>804-020</b> = Solder Cup or PCB Receptacle with Special "MOD-518" Sealing for Open Face (Unmated) Water Immersion Requirements. 100% Leak Tested.                                                                                                                                             |         |     |    |     |     |
| Shell Style (See Table I)       | <b>-00</b> = Jam-Nut, Front Panel Mount<br><b>-07</b> = Jam-Nut, Rear Panel Mount                                                                                                                                                                                                                                                                                       |         |     |    |     |     |
| Shell Material and Finish       | <b>C</b> = Aluminum / Black Anodize (Non-Conductive); RoHS Compliant<br><b>M</b> = Aluminum / Electroless Nickel; RoHS Compliant<br><b>MT</b> = Aluminum / Nickel-PTFE RoHS Compliant<br><b>NF</b> = Aluminum / Cadmium with Olive Drab Chromate<br><b>ZNU</b> = Aluminum / Zinc-Nickel with Black Chromate<br><b>Z1</b> = Stainless Steel / Passivated; RoHS Compliant |         |     |    |     |     |
| Shell Size - Insert Arrangement | See Contact Arrangements Page G-2                                                                                                                                                                                                                                                                                                                                       |         |     |    |     |     |
| Contact Type                    | <b>P</b> = Pin, PC Tail <b>E</b> = Pin, Solder Cup<br><b>S</b> = Socket, PC Tail <b>F</b> = Socket, Solder Cup                                                                                                                                                                                                                                                          |         |     |    |     |     |
| Polarization (See Table II)     | <b>Omit</b> = Single Master Key <b>A</b> = Normal <b>B</b> = Pos. B <b>C</b> = Pos. C <b>D</b> = Pos. D <b>E</b> = Pos. E <b>F</b> = Pos. F                                                                                                                                                                                                                             |         |     |    |     |     |

| Table I: Shell Style                     |                                         |
|------------------------------------------|-----------------------------------------|
|                                          |                                         |
| <b>-00</b><br>Jam-Nut, Front Panel Mount | <b>-07</b><br>Jam-Nut, Rear Panel Mount |

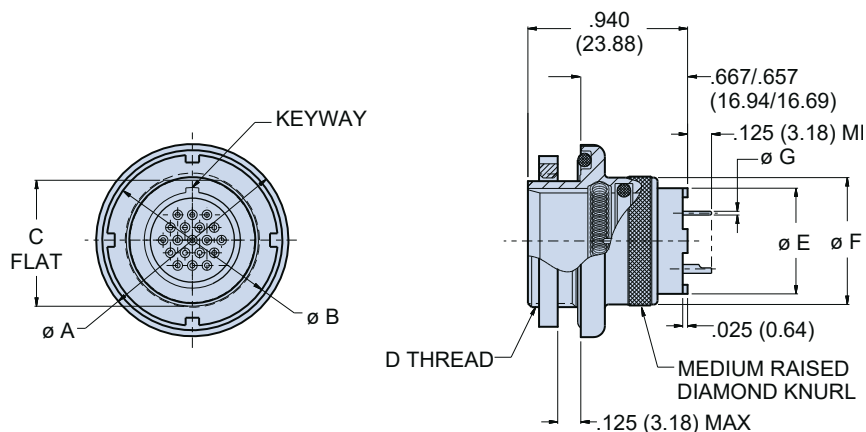
| Table II: Keyway Positions |      |      |      |
|----------------------------|------|------|------|
|                            | Pos. | A°   | B°   |
|                            | A    | 150° | 210° |
|                            | B    | 75°  | 210° |
|                            | C    | 95°  | 230° |
|                            | D    | 140° | 275° |
|                            | E    | 75°  | 275° |
|                            | F    | 95°  | 210° |

## NOTES

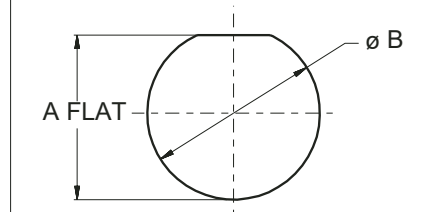
1. Contacts are nonremovable
2. Receptacle connector mates with all push/pull high density plug connectors with same polarization and opposite contact gender

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

## Jam-nut, rear panel mount receptacle - style 07



| Dimensions |                  |                  |                 |                 |                 |                 |                                 |
|------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|---------------------------------|
| Shell Size | Ø A              | Ø B              | C Flat          | D Threads       | Ø E             | Ø F             | Ø G Tail Dia.                   |
| 5          | .730<br>(18.54)  | .562<br>(14.27)  | .415<br>(10.54) | .4375-32 UN-2A  | .244<br>(6.20)  | .435<br>(11.05) | #23<br>.018/.022<br>(0.46/0.56) |
| 6          | .730<br>(18.54)  | .625<br>(15.88)  | .467<br>(11.86) | .5000-32 UN-2A  | .330<br>(8.38)  | .483<br>(12.27) |                                 |
| 7          | .910<br>(23.11)  | .750<br>(19.05)  | .594<br>(15.09) | .6250-28 UN-2A  | .432<br>(10.97) | .570<br>(14.48) |                                 |
| 8          | .955<br>(24.26)  | .750<br>(19.05)  | .594<br>(15.09) | .6250-28 UN-2A  | .493<br>(12.52) | .593<br>(15.06) | #20<br>.024/.028<br>(0.61/0.71) |
| 9          | 1.000<br>(25.40) | .812<br>(20.62)  | .655<br>(16.64) | .6875-28 UN-2A  | .551<br>(14.00) | .685<br>(17.40) |                                 |
| 10         | 1.085<br>(27.56) | .875<br>(22.23)  | .721<br>(18.31) | .7500-28 UN-2A  | .620<br>(15.75) | .725<br>(18.42) | #16<br>.060/.064<br>(1.52/1.63) |
| 11         | 1.135<br>(28.83) | .938<br>(23.83)  | .788<br>(20.02) | .8125-28 UN-2A  | .662<br>(16.81) | .810<br>(20.57) |                                 |
| 12         | 1.190<br>(30.23) | 1.000<br>(25.40) | .843<br>(21.41) | .8750-28 UN-2A  | .703<br>(17.86) | .850<br>(21.59) | #12<br>.092/.096<br>(2.34/2.44) |
| 14         | 1.325<br>(33.65) | 1.125<br>(28.58) | .968<br>(24.59) | 1.0000-28 UN-2A | .863<br>(21.92) | .973<br>(24.71) |                                 |

| Jam-Nut Rear Panel Mount<br>Cutout Dimensions                                        |                              |                                |
|--------------------------------------------------------------------------------------|------------------------------|--------------------------------|
|  |                              |                                |
| Shell Size                                                                           | A Flat                       | Ø B                            |
| 5                                                                                    | .425 (10.80)<br>.421 (10.69) | .448 (11.38)<br>.443 (11.25)   |
| 6                                                                                    | .477 (12.12)<br>.473 (12.01) | .510 (12.95)<br>.505 (12.83)   |
| 7                                                                                    | .590 (14.99)<br>.586 (14.88) | .635 (16.13)<br>.630 (16.00)   |
| 8                                                                                    | .604 (15.34)<br>.600 (15.24) | .635 (16.13)<br>.630 (16.00)   |
| 9                                                                                    | .665 (16.89)<br>.661 (16.79) | .698 (17.73)<br>.693 (17.60)   |
| 10                                                                                   | .731 (18.57)<br>.727 (18.47) | .760 (19.30)<br>.755 (19.18)   |
| 11                                                                                   | .800 (20.32)<br>.796 (20.22) | .823 (20.90)<br>.880 (22.35)   |
| 12                                                                                   | .853 (21.67)<br>.849 (21.56) | .885 (22.48)<br>.880 (22.35)   |
| 14                                                                                   | .978 (24.84)<br>.974 (24.74) | 1.010 (25.65)<br>1.005 (25.53) |

### Material and Finish

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: LCP / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Detent spring: CRES / gold plated
- Potting compound: epoxy / N.A.

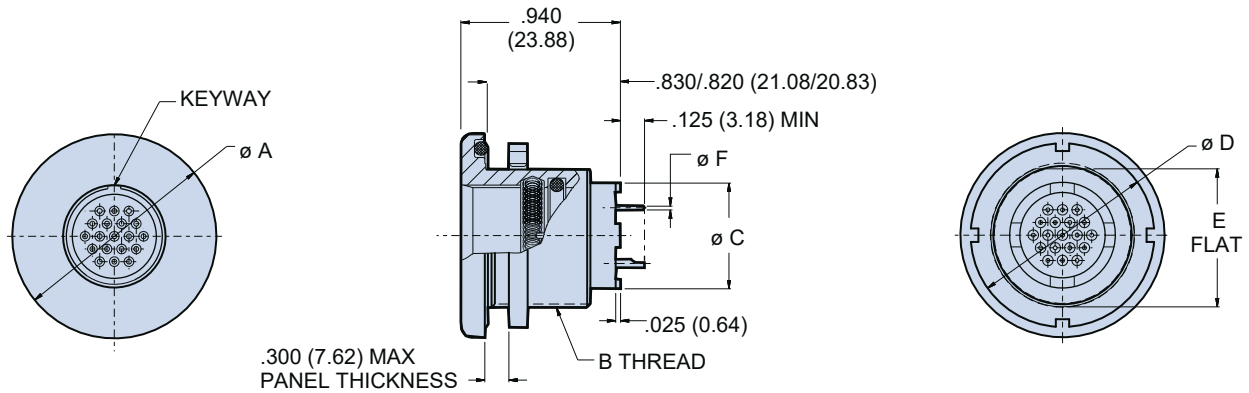
Dimensions in Inches (millimeters) are subject to change without notice.

**Series 804 Push-Pull Mighty Mouse Connector  
PC Tail or Solder Cup Receptacle**  
804-005-00, 804-020-00 Dimensions



Series 804

**Jam-nut, front panel mount receptacle - style 00**



| Dimensions |               |                 |              |               |               |                              |
|------------|---------------|-----------------|--------------|---------------|---------------|------------------------------|
| Shell Size | Ø A           | B Threads       | Ø C          | Ø D           | E Flat        | Ø F Tail Dia.                |
| 5          | .830 (21.08)  | .5000-32 UN-2A  | .244 (6.20)  | .625 (15.88)  | .470 (11.94)  | #23<br>.018/.022 (0.46/0.56) |
| 6          | .885 (22.48)  | .5625-28 UN-2A  | .330 (8.38)  | .688 (17.48)  | .530 (13.46)  |                              |
| 7          | .995 (25.27)  | .6875-28 UN-2A  | .432 (10.97) | .812 (20.62)  | .663 (16.84)  |                              |
| 8          | .995 (25.27)  | .6875-28 UN-2A  | .493 (12.52) | .812 (20.62)  | .663 (16.84)  | #20<br>.024/.028 (0.61/0.71) |
| 9          | 1.075 (27.30) | .7500-28 UN-2A  | .551 (14.00) | .875 (22.23)  | .720 (18.29)  | #16<br>.060/.064 (1.52/1.63) |
| 10         | 1.140 (28.96) | .8125-28 UN-2A  | .620 (15.75) | .938 (23.83)  | .788 (20.02)  |                              |
| 11         | 1.190 (30.23) | .8750-28 UN-2A  | .662 (16.81) | 1.000 (25.40) | .843 (21.41)  |                              |
| 12         | 1.340 (34.04) | 1.0000-28 UN-2A | .703 (17.86) | 1.125 (28.58) | .970 (24.64)  | #12<br>.092/.096 (2.34/2.44) |
| 14         | 1.390 (35.31) | 1.0620-20 UN-2A | .863 (21.92) | 1.162 (29.51) | 1.020 (25.91) |                              |

| Jam-Nut, Front Panel Mount Cutout Dimensions |                                |               |
|----------------------------------------------|--------------------------------|---------------|
|                                              |                                |               |
| Shell Size                                   | A Flat                         | Ø B           |
| 5                                            | .482 (12.24)<br>.478 (12.14)   | .510 (12.95)  |
| 6                                            | .542 (13.77)<br>.538 (13.67)   | .575 (14.60)  |
| 7                                            | .676 (17.17)<br>.671 (17.04)   | .698 (17.73)  |
| 8                                            | .676 (17.17)<br>.671 (17.04)   | .698 (17.73)  |
| 9                                            | .732 (18.59)<br>.728 (18.49)   | .760 (19.30)  |
| 10                                           | .801 (20.35)<br>.796 (20.22)   | .822 (20.88)  |
| 11                                           | .855 (21.72)<br>.851 (21.62)   | .885 (22.48)  |
| 12                                           | .982 (24.94)<br>.978 (24.84)   | 1.010 (25.65) |
| 14                                           | 1.032 (26.21)<br>1.028 (26.11) | 1.075 (27.30) |

**Material and Finish**

- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulator: LCP / N.A.
- Interfacial seal, O-ring: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over suitable underplate
- Detent spring: CRES / gold plated
- Potting compound: epoxy / N.A.

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