

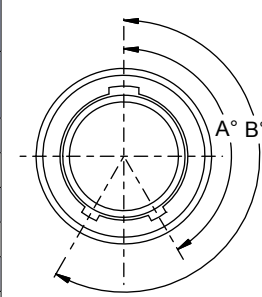
**Series 801 Hermetic Receptacles**

Feature gold plated nickel-iron alloy contacts and glass to metal seal. 100% tested to meet  $1 \times 10^{-7}$  ccHe/sec @ 1 atm helium leak rate. Stainless steel connector shell provides excellent corrosion protection. Viton® O-rings offer improved resistance to high temperature and harsh chemicals. Square flange, solder, and jam-nut shell styles. Size #16 (up to 700 MHz) and #12 (up to 3 GHz) coax contacts available.

| How To Order                           |   |            |           |             |          |          |            |
|--|---|------------|-----------|-------------|----------|----------|------------|
| <b>Sample Part Number</b>              | <b>801-124</b>  | <b>-07</b> | <b>Z1</b> | <b>16-5</b> | <b>C</b> | <b>A</b> | <b>-50</b> |
| <b>Series</b>                          | 801-124 = Hermetic Receptacle   |            |           |             |          |          |            |
| <b>Shell Style (See Table I)</b>       | -02 = Square Flange, Mount<br>-03 = Solder Mount Receptacle<br>-07 = Jam-Nut Rear Panel Mount |            |           |             |          |          |            |
| <b>Shell Material and Finish</b>       | Z1 = Stainless Steel / Passivated<br>ZL = Stainless Steel / Nickel Plated                     |            |           |             |          |          |            |
| <b>Shell Size - Insert Arrangement</b> | See Contact Arrangements page E-7, Contact size 16 and 12 only                                |            |           |             |          |          |            |
| <b>Contact Type</b>                    | C = Coax Pin Face D = Coax Socket Face  |            |           |             |          |          |            |
| <b>Polarization (See Table II)</b>     | A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F                             |            |           |             |          |          |            |
| <b>Nominal Impedance</b>               | 50 = 50 OHM (#12 & 16) 75 = 75 OHM (#12 ONLY)   |            |           |             |          |          |            |

| Table I: Shell Style             |                      |                     |
|----------------------------------|----------------------|---------------------|
|                                  |                      |                     |
| -07<br>Jam-Nut, Rear Panel Mount | -02<br>Square Flange | -03<br>Solder Mount |

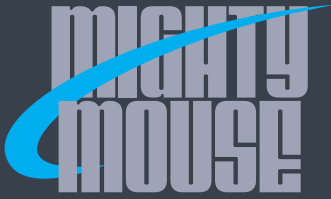
| Table II: Keyway Positions |              |      |
|----------------------------|--------------|------|
| Key Position               | Key Rotation |      |
|                            | A°           | B°   |
| A Normal                   | 150°         | 210° |
| B                          | 75°          | 210° |
| C                          | 95°          | 230° |
| D                          | 140°         | 275° |
| E                          | 75°          | 275° |
| F                          | 95°          | 210° |



| DWV Rating                       |              |
|----------------------------------|--------------|
| Contact Sizes                    | Test Voltage |
| 23                               | 750 Vac      |
| 20 HD                            | 1000 Vac     |
| 16, 12, 8                        | 1800 Vac     |
| 16 Coax**                        | 800 Vac      |
| 12 Coax**                        | 1000 Vac     |
| **Inner contact to outer contact |              |

**NOTES**

- Performance Test Criteria:
- Hermeticity:  $1 \times 10^{-7}$  ccHe/sec @ 1 ATM differential
- D.W.V.:  
#16 - 800 VAC inner to outer contact  
#12 - 1000 VAC inner to outer contact  
1800 VAC outer-pin to outer-pin and outer-pin to shell
- I.R.: 5000 megohms min @500VDC
- 801-124 connector will mate with all quick-coupling plug connectors having the same shell size, contact arrangement, and opposite contact gender (coax socket.)
- Frequency range:  
size 16: up to 700 MHz; size 12: up to 3 GHz
- See page E-11 for panel cut-out dimensions
- Material/Finish
  - Shell, jam-nut: stainless steel, passivated or plated see part number development / N.A.
  - Contacts hermetic: nickel alloy/gold plated / N.A.
  - Contacts, socket: copper/gold plated
  - Insulator, hermetic: full glass / N.A.
  - Insulator, coax: rigid dielectric / N.A.
  - Seals, o-rings: fluorosilicone blend / N.A.

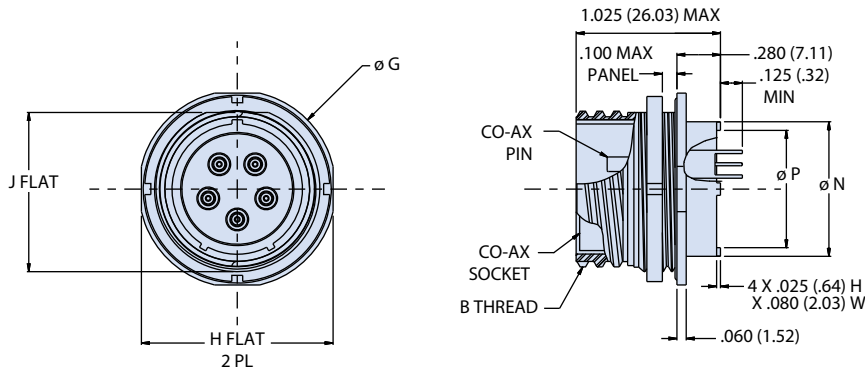


# SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables

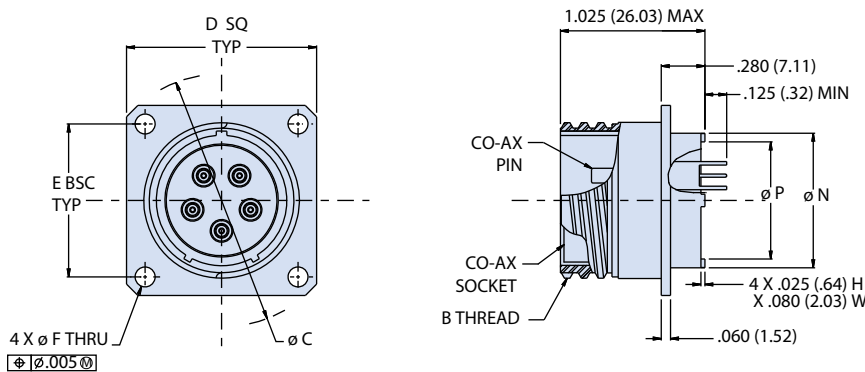


## Hermetic PC Tail Receptacle with Coax Contacts

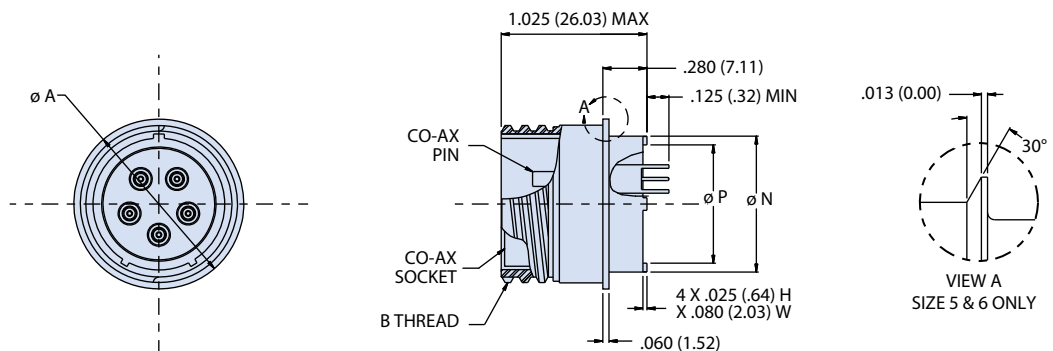
### JAM-NUT, REAR PANEL MOUNT RECEPTACLE - SHELL STYLE 07

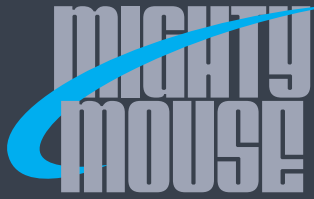


### SQUARE FLANGE, FRONT OR REAR PANEL MOUNT, THRU-HOLE RECEPTACLE - SHELL STYLE 02



### SOLDER MOUNT MOUNT RECEPTACLE - SHELL STYLE 03





| Dimensions |               |                   |               |               |               |                                  |                |               |               |               |              |              |
|------------|---------------|-------------------|---------------|---------------|---------------|----------------------------------|----------------|---------------|---------------|---------------|--------------|--------------|
| Shell Size | Ø A           | B Thread          | Ø C           | D SQ          | E BSC         | F Holes                          | Ø G            | H Flat        | J Flat        | Ø N           | Ø P          |              |
| 5          | .395 (10.03)  | .3125-.05P-.1L-2A | .680 (17.27)  | .530 (13.46)  | .363 (9.22)   | .096<br>(2.44)<br>.091<br>(2.31) | .575 (14.60)   | .545 (13.84)  | .350 (8.89)   | .244 (6.20)   | .197 (5.00)  |              |
| 6          | .455 (11.56)  | .3750-.05P-.1L-2A | .750 (19.05)  | .590 (14.99)  | .423 (10.74)  |                                  | .635 (16.13)   | .595 (15.11)  | .410 (10.41)  | .330 (8.38)   | .236 (5.99)  |              |
| 7          | .520 (13.21)  | .4375-.05P-.1L-2A | .850 (21.59)  | .650 (16.51)  | .483 (12.27)  |                                  | .755 (19.18)   | .723 (18.36)  | .536 (13.61)  | .432 (10.97)  | .324 (8.23)  |              |
| 8          | .580 (14.73)  | .5000-.05P-.1L-2A | .938 (23.83)  | .712 (18.08)  | .545 (13.84)  |                                  | .755 (19.18)   | .723 (18.36)  | .536 (13.61)  | .493 (12.52)  | .390 (9.91)  |              |
| 9          | .645 (16.38)  | .5625-.05P-.1L-2A | 1.125 (28.58) | .850 (21.59)  | .607 (15.42)  |                                  | .830 (21.08)   | .790 (20.07)  | .596 (15.14)  | .551 (14.00)  | .444 (11.28) |              |
| 10         | .705 (17.91)  | .6250-.05P-.1L-2A | 1.188 (30.18) | .890 (22.61)  | .670 (17.02)  |                                  | .890 (22.61)   | .855 (21.72)  | .658 (16.71)  | .620 (15.75)  | .520 (13.21) |              |
| 11         | .770 (19.56)  | .6875-.05P-.1L-2A | 1.250 (31.75) | .935 (23.75)  | .715 (18.16)  |                                  | .960 (24.38)   | .925 (23.50)  | .718 (18.24)  | .662 (16.81)  | .557 (14.15) |              |
| 13         | .895 (22.73)  | .8125-.1P-.2L-2A  | 1.375 (34.92) | 1.030 (26.16) | .812 (20.62)  |                                  | 1.078 (27.38)  | 1.044 (26.52) | .845 (21.46)  | .703 (17.86)  | .596 (15.14) |              |
| 16         | 1.080 (27.43) | 1.0000-.1P-.2L-2A | 1.625 (41.28) | 1.219 (30.96) | .981 (24.92)  |                                  | .130<br>(3.30) | 1.265 (32.13) | 1.230 (31.24) | 1.022 (25.96) | .863 (21.92) | .756 (19.20) |
| 17         | 1.145 (29.08) | 1.0625-.1P-.2L-2A | 1.700 (43.18) | 1.280 (32.51) | 1.060 (26.92) |                                  | .126<br>(3.20) | 1.325 (33.65) | 1.290 (32.77) | 1.096 (27.84) | .912 (23.16) | .805 (20.45) |
| 19         | 1.270 (32.26) | 1.1875-.1P-.2L-2A | 1.900 (48.26) | 1.432 (36.37) | 1.191 (30.25) |                                  | 1.450 (36.83)  | 1.415 (35.94) | 1.225 (31.12) | 1.018 (25.86) | .910 (23.11) |              |
| 21         | 1.415 (35.94) | 1.3125-.1P-.2L-2A | 2.100 (53.34) | 1.565 (39.75) | 1.322 (33.58) | 1.625 (41.28)                    | 1.577 (40.06)  | 1.346 (34.19) | 1.170 (29.72) | 1.061 (26.95) |              |              |

PCB FOOTPRINTS

