

## SERIES 804 QDC PUSH-PULL

# Mighty Mouse Connectors and Cables



## PCB Receptacle with PC Tails or Solder Cup Contacts and Ground Pins



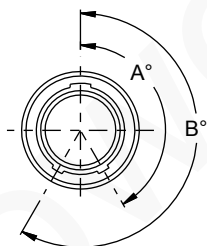
### Series 804 PC Tail or Solder Cup Contact Receptacle with Ground Pins

Connector features copper alloy, gold plated PC tails or solder cup contacts. Ground pins are pressed into the shell body to provide a direct grounding path from the connector shell to the PCB board creating a common ground path for the connector, the panel it is mounted against, and printed circuit board. "Push-Pull" quick-disconnect canted coil spring securely retains mating plug connector and provides low shell-to-shell resistance for excellent EMI shielding. O-ring inside receptacle shell provides water-tight seal when mated. Two shell styles available — rear panel mount jam-nut or front panel mount jam-nut available. PC tail contacts for attachment to flex or rigid circuit boards. Choose solder cups for connections between devices, PCB's and discrete instruments

### How To Order

| Sample Part Number              |                                                                                                                                                                              | 804-032 | -07 | M | 6-4 | P | A |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|---|-----|---|---|
| Series                          | 804-032 = PCB Receptacle with PC Tail or Solder Cup Contacts                                                                                                                 |         |     |   |     |   |   |
| Shell Style                     | -00 = Jam-Nut, Front Panel Mount<br>-07 = Jam-Nut, Rear Panel Mount                                                                                                          |         |     |   |     |   |   |
| Material and Finish             | C = Black Anodize<br>M = Aluminum / Electroless Nickel<br>NF = Aluminum / Cadmium with Olive Drab Chromate<br>ZN = Aluminum / Zinc-Nickel Olive Drab over Electroless Nickel |         |     |   |     |   |   |
| Shell Size - Insert Arrangement | See Contact Arrangements page E-7                                                                                                                                            |         |     |   |     |   |   |
| Contact Type                    | P = Pin, PC Tail      E = Pin, Solder Cup<br>S = Socket, PC Tail    F = Socket, Solder Cup                                                                                   |         |     |   |     |   |   |
| Polarization (See Table I)      | A = Normal   B = Pos. B   C = Pos. C   D = Pos. D   E = Pos. E   F = Pos. F<br>Omit character for single keyway (non-polarized)                                              |         |     |   |     |   |   |

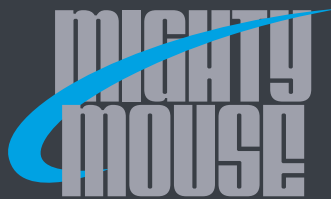
Table I: Keyway Positions



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

### NOTES

1. Contacts are non removable, the connector is back potted
2. This receptacle connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender (804-001, 804-002)
3. See page H-9 for panel cut-out dimensions
4. Material / finish:
  - Shell, jam-nut: aluminum alloy or CRES / N.A.
  - Insulator: high-grade rigid dielectric
  - Interfacial seal, O-ring: fluorosilicone
  - Contact, ground pins: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25 (.00005 minimum thickness), over a suitable underplate
  - Potting compound: epoxy / N.A.

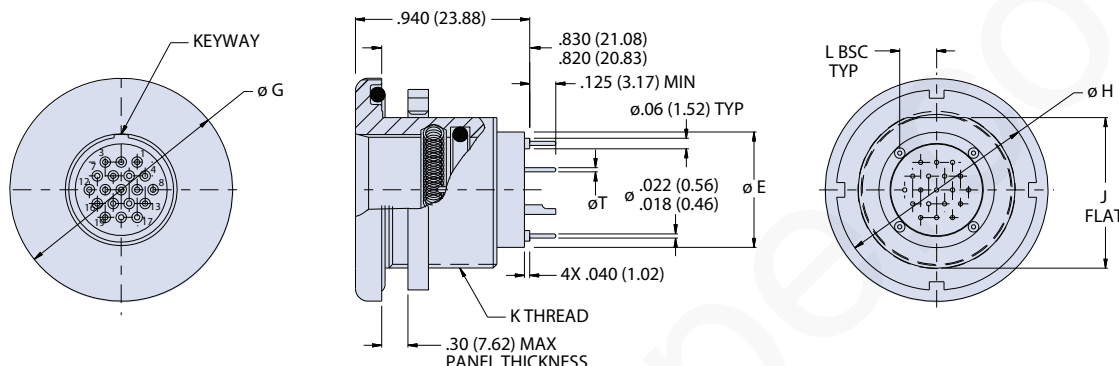


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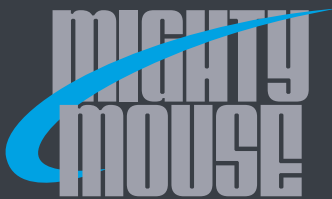
## PCB Receptacle with PC Tails or Solder Cup Contacts and Ground Pins

### JAM-NUT, FRONT PANEL MOUNT RECEPTACLE - STYLE 00



| Dimensions |               |               |               |               |                |              |
|------------|---------------|---------------|---------------|---------------|----------------|--------------|
| SHELL SIZE | Ø E           | Ø G           | Ø H           | J FLAT        | K THREAD       | L BSC        |
| 5          | 0.336 (8.53)  | 0.830 (21.08) | 0.625 (15.88) | 0.470 (11.94) | .5000-32 UN-2A | 0.087 (2.21) |
| 6          | 0.398 (10.11) | 0.885 (22.48) | 0.688 (17.48) | 0.530 (13.46) | .5625-28 UN-2A | 0.109 (2.77) |
| 7          | 0.486 (12.34) | 0.995 (25.27) | 0.812 (20.62) | 0.663 (16.84) | .6875-28 UN-2A | 0.147 (3.73) |
| 8          | 0.548 (13.92) | 0.995 (25.27) | 0.812 (20.62) | 0.663 (16.84) | .6875-28 UN-2A | 0.165 (4.19) |
| 9          | 0.606 (15.39) | 1.075 (27.30) | 0.875 (22.23) | 0.720 (18.29) | .7500-28 UN-2A | 0.186 (4.72) |
| 10         | 0.675 (17.15) | 1.140 (28.96) | 0.938 (23.83) | 0.788 (20.02) | .8125-28 UN-2A | 0.210 (5.33) |
| 11         | 0.717 (18.21) | 1.190 (30.23) | 1.000 (25.40) | 0.843 (21.41) | .8750-28 UN-2A | 0.222 (5.64) |
| 12         | 0.758 (19.25) | 1.340 (34.04) | 1.125 (28.58) | 0.970 (24.64) | 1.000-28 UN-2A | 0.239 (6.07) |
| 14         | 0.918 (23.32) | 1.390 (35.31) | 1.162 (29.51) | 1.020 (25.91) | 1.062-20 UN-2A | 0.296 (7.52) |

| PC Tail Diameters |             |
|-------------------|-------------|
| Contact Size      | ØT          |
| #23               | .022 (0.56) |
|                   | .018 (0.46) |
| #20               | .028 (0.71) |
|                   | .024 (0.61) |
| #16               | .064 (1.63) |
|                   | .060 (1.52) |
| #12               | .096 (2.44) |
|                   | .092 (2.34) |

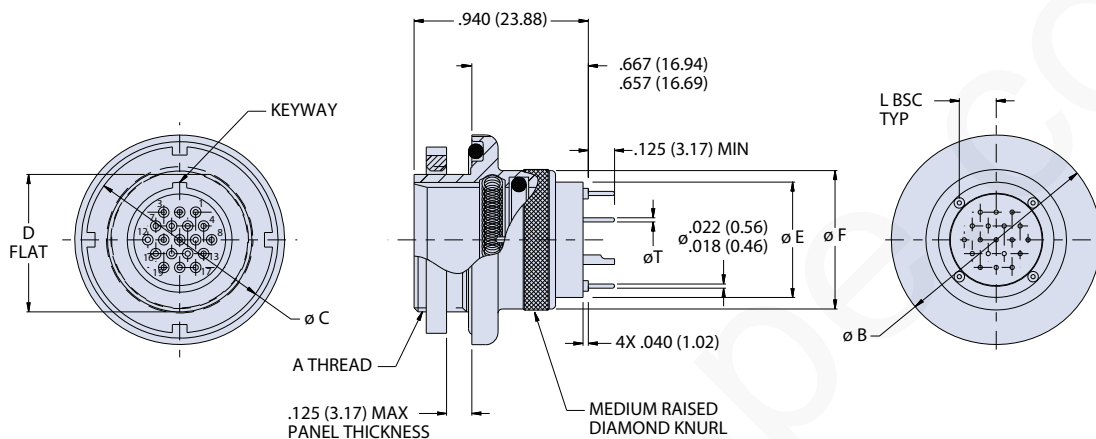


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## PCB Receptacle with PC Tails or Solder Cup Contacts and Ground Pins

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



| Dimensions |                 |               |               |               |               |               |              |
|------------|-----------------|---------------|---------------|---------------|---------------|---------------|--------------|
| SHELL SIZE | A THREAD        | ø B           | ø C           | D FLAT        | ø E           | ø F           | L BSC        |
| 5          | .4375-32 UN-2A  | 0.730 (18.54) | 0.562 (14.27) | 0.415 (10.54) | 0.336 (8.53)  | 0.435 (11.05) | 0.087 (2.21) |
| 6          | .5000-32 UN-2A  | 0.730 (18.54) | 0.625 (15.88) | 0.467 (11.86) | 0.398 (10.11) | 0.483 (12.27) | 0.109 (2.77) |
| 7          | .6250-28 UN-2A  | 0.910 (23.11) | 0.750 (19.05) | 0.594 (15.09) | 0.486 (12.34) | 0.570 (14.48) | 0.147 (3.73) |
| 8          | .6250-28 UN-2A  | 0.955 (24.26) | 0.750 (19.05) | 0.594 (15.09) | 0.548 (13.92) | 0.593 (15.06) | 0.165 (4.19) |
| 9          | .6875-28 UN-2A  | 1.000 (25.40) | 0.812 (20.62) | 0.655 (16.64) | 0.606 (15.39) | 0.685 (17.40) | 0.186 (4.72) |
| 10         | .7500-28 UN-2A  | 1.085 (27.56) | 0.875 (22.23) | 0.721 (18.31) | 0.675 (17.15) | 0.725 (18.42) | 0.210 (5.33) |
| 11         | .8125-28 UN-2A  | 1.135 (28.83) | 0.938 (23.83) | 0.788 (20.02) | 0.717 (18.21) | 0.810 (20.57) | 0.222 (5.64) |
| 12         | .8750-28 UN-2A  | 1.190 (30.23) | 1.000 (25.40) | 0.843 (21.41) | 0.758 (19.25) | 0.880 (22.35) | 0.239 (6.07) |
| 14         | 1.0000-28 UN-2A | 1.325 (33.65) | 1.125 (28.58) | 0.968 (24.59) | 0.918 (23.32) | 0.973 (24.71) | 0.296 (7.52) |

| PC Tail Diameters |                            |
|-------------------|----------------------------|
| Contact Size      | ØT                         |
| #23               | .022 (0.56)<br>.018 (0.46) |
| #20               | .028 (0.71)<br>.024 (0.61) |
| #16               | .064 (1.63)<br>.060 (1.52) |
| #12               | .096 (2.44)<br>.092 (2.34) |