

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 792 High-Speed

**SERIES**  
**792**  
High-Speed

### 792-018

PCB Plug, Straight Tails, Quadrax

- ◆ Quadraxial PC tail contacts
- ◆ Straight PCB tails
- ◆ Socket contacts



792-018 plug has high-speed quadraxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

#### INSERT ARRANGEMENTS

| Thermoplastic Insert | Grounded All-Aluminum | No. of Contacts |     |
|----------------------|-----------------------|-----------------|-----|
|                      |                       | Quadrax         | #23 |
| A-1P1                | A-1G1                 | 1               | –   |
| A-3P1                |                       | 1               | 2   |
| B-23P1               |                       | 1               | 22  |
| B-2P2                | B-2G2                 | 2               | –   |
| B-6P2                |                       | 2               | 4   |
| C-24P2               |                       | 2               | 22  |
| C-3P3                | C-3G3                 | 3               | –   |
| C-9P3                |                       | 3               | 6   |
| D-27P3               |                       | 3               | 24  |
| D-4P4                | D-4G4                 | 4               | –   |
| D-12P4               |                       | 4               | 8   |
| E-5P5                | E-5G5                 | 5               | –   |
| E-15P5               |                       | 5               | 10  |
| E-45P3               |                       | 3               | 42  |
| F-9P9                | F-9G9                 | 9               | –   |
| F-31P9               |                       | 9               | 22  |

#### HOW TO ORDER

| Sample Part Number                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 792-018S                                          | D-4P4 | M | R3 | B |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------|---|----|---|
| Basic Part Number                 | 792-018S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PCB Plug, Straight Tails, Quadrax Socket Contacts |       |   |    |   |
| Shell Size-Insert Arr.            | See “Insert Arrangements” Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |       |   |    |   |
| Shell Finish                      | <div><div>M</div>Electroless Nickel</div> <div><div>MT</div>Nickel / PTFE</div> <div><div>N</div>Olive Drab Cadmium</div> <div><div>TZ</div>Tin-Zinc</div> <div><div>ZR</div>Black Zinc-Nickel</div>                                                                                                                                                                                                                                                                                                                                                                  |                                                   |       |   |    |   |
| Jackpost Option<br><i>Table 1</i> | <div><div>N</div>No Jackposts</div> <div><div>P</div>Female Jackposts</div> <div><div>R1</div>Rear Panel Mount Jackposts .032 (0.81) Panel Thickness</div> <div><div>R2</div>Rear Panel Mount Jackposts .050 (1.27) Panel Thickness</div> <div><div>R3</div>Rear Panel Mount Jackposts .062 (1.59) Panel Thickness</div> <div><div>R4</div>Rear Panel Mount Jackposts .080 (2.03) Panel Thickness</div> <div><div>R5</div>Rear Panel Mount Jackposts .093 (2.36) Panel Thickness</div> <div><div>R6</div>Rear Panel Mount Jackposts .125 (3.18) Panel Thickness</div> |                                                   |       |   |    |   |
| Polarization Key Option           | Enter Letter Designator for Position <b>A, B, C, D, E, F, G, H, J, or K</b> per Mod Code 1104 (see page C-8 for details) <b>Omit</b> for none                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |       |   |    |   |

TABLE 1 JACKPOST OPTION

|                                                                      |  |                                             |  |                                                          |  |
|----------------------------------------------------------------------|--|---------------------------------------------|--|----------------------------------------------------------|--|
| <b>N</b><br>No Hardware<br>#10-32 UNF-2B<br>.150 (3.8) Min.<br>Depth |  | <b>P</b><br>Female Jackpost<br>#8-32 UNC-2B |  | <b>R1 - R6</b><br>Rear Panel<br>Jackpost<br>#8-32 UNC-2B |  |
|----------------------------------------------------------------------|--|---------------------------------------------|--|----------------------------------------------------------|--|

#### RATINGS

- Voltage (DWV): #23 750 VAC, ungrounded quadrax to shell 1800 VAC
- Current: #23 5A
- Operating temperature: -65 to +150 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random

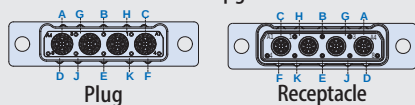
#### CONSTRUCTION

- #23 Contacts: Copper alloy, gold over nickel finish, stainless steel hood
- Quadrax contact: Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- Shell: Aluminum
- Insulator: High performance thermoplastic
- Encapsulant: Epoxy
- Hardware: Stainless steel, passivated

#### Application Note

##### Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



# MICRO-CRIMP RECTANGULAR CONNECTORS

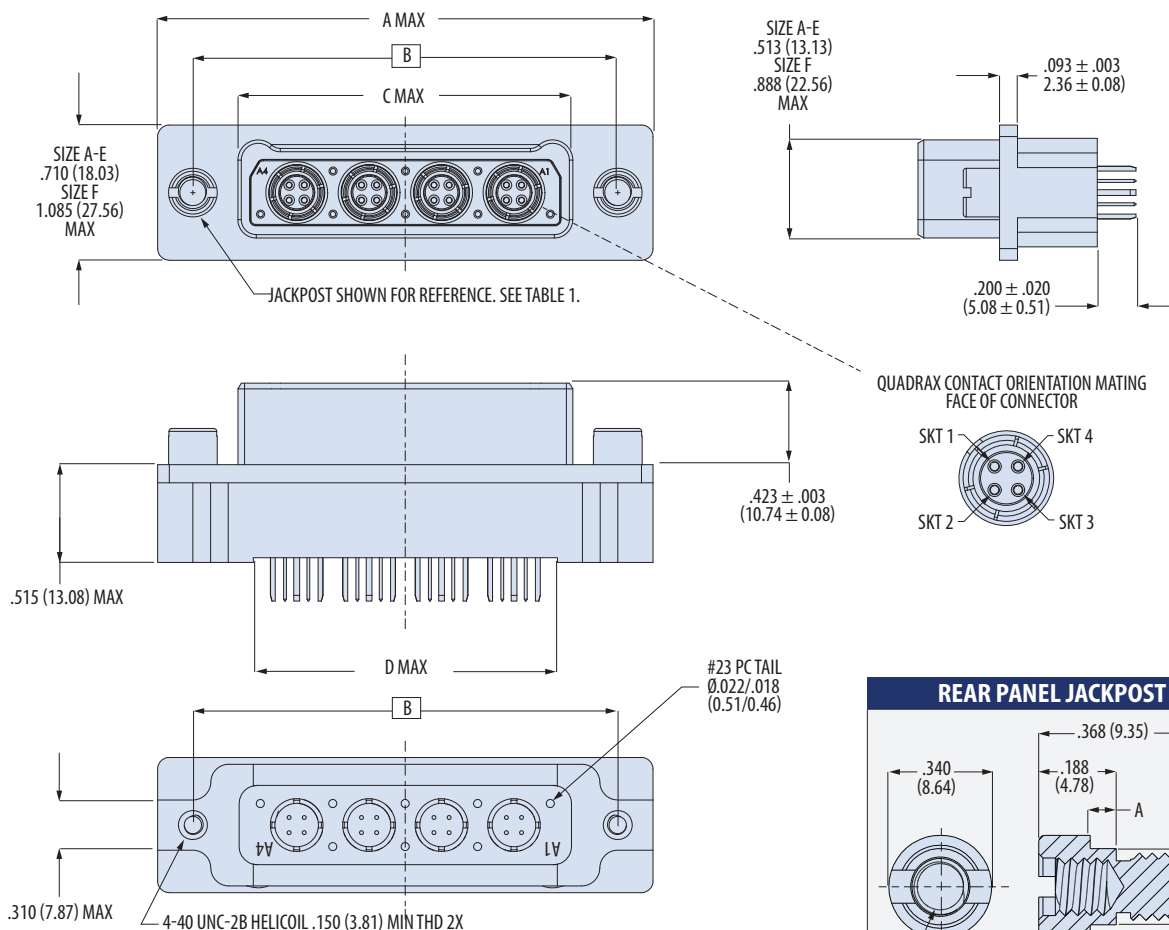
## Series 792 High-Speed



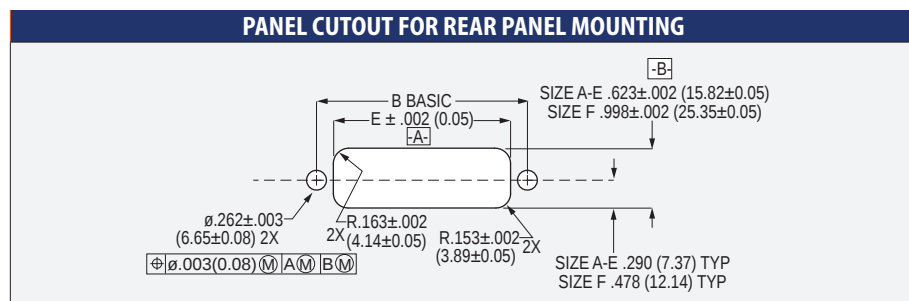
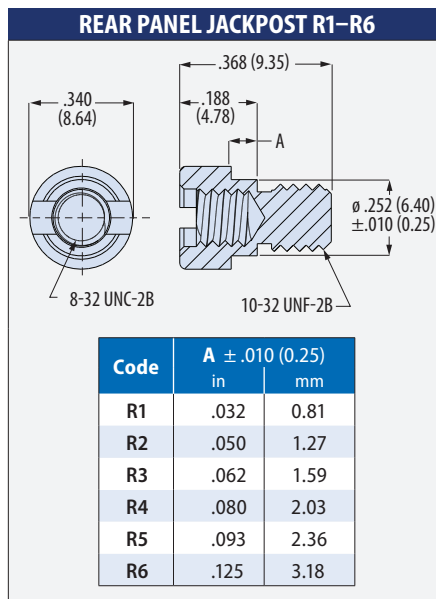
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| Shell Size | A Max |       | B ± .005 (0.1) |       | C Max |       | D Max |       | E ± .002 (0.05) |       |
|------------|-------|-------|----------------|-------|-------|-------|-------|-------|-----------------|-------|
|            | in    | mm    | in             | mm    | in    | mm    | in    | mm    | in              | mm    |
| A          | 1.455 | 36.96 | 1.075          | 27.31 | .615  | 15.62 | .460  | 11.68 | .725            | 18.42 |
| B          | 1.830 | 46.48 | 1.450          | 36.83 | .990  | 25.15 | .835  | 21.21 | 1.100           | 27.94 |
| C          | 2.205 | 56.01 | 1.825          | 46.36 | 1.365 | 34.67 | 1.210 | 30.73 | 1.475           | 37.47 |
| D          | 2.580 | 65.53 | 2.200          | 55.88 | 1.740 | 44.20 | 1.585 | 40.26 | 1.850           | 46.99 |
| E          | 2.955 | 75.06 | 2.575          | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225           | 56.52 |
| F          | 2.955 | 75.06 | 2.575          | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225           | 56.52 |



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#### PCB FOOTPRINTS FOR 792-018 CONNECTOR

**Detail B**

