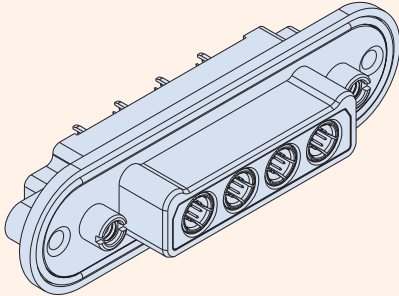


# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors



### 792-007S El Ochito® PCB Plug Connectors, Panel Mount Straight PC Tail Ochito Octaxial Contacts



#### Technical Data

##### Specifications

- Operating temperature: -65 to +125 °C
- Current rating, size 23 contact: 5A
- Current rating, Ochito contacts: 1.5A
- Voltage rating (DWV): 500 Vac
- Shock: EIA-364-27 condition D
- Vibration: EIA-364-28 condition V, letter E
- Insulation Resistance: 5000 MΩ min.
- Altitude immersion: 75,000 feet

##### Construction

- Shell: aluminum alloy
- Metal insert: aluminum, nickel plated
- Insulators: high-grade rigid dielectric
- Size 23 contacts: copper alloy, 50 microinches gold over nickel plating
- Ochito contacts  
inner and outer contacts: copper alloy, 50 microinches gold over nickel plating.  
Insulators: high-grade rigid thermoplastic
- Potting compound: epoxy
- O-ring: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- Hardware: 300 series SST, passivated

**Octaxial PCB contacts. Blind mate. Panel mount with O-ring.** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-007S panel mount connectors feature machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. Military-grade performance and construction.

#### How To Order

|                                  | Sample P/N → <b>792-007S</b>  | <b>C-3P3</b> | <b>M</b> | <b>G</b> | <b>AA</b> | <b>F</b> |
|----------------------------------|---|--------------|----------|----------|-----------|----------|
| <b>Product</b>                   | <b>792-007S</b> = Panel Plug, PC Tail Socket Contacts   |              |          |          |           |          |
| <b>Insert Arrangement</b>        | See Table 2   |              |          |          |           |          |
| <b>Shell Finish</b>              | <b>M</b> = Electroless Nickel<br><b>MT</b> = Nickel-PTFE  |              |          |          |           |          |
| <b>Mating Hardware (Table 1)</b> | <b>N</b> = No hardware<br><b>P</b> = Jackpost<br><b>G</b> = Male guide pin  |              |          |          |           |          |
| <b>El Ochito® Protocol Code</b>  | See Table 3   |              |          |          |           |          |
| <b>O-ring Option</b>             | <b>N</b> = No O-ring<br><b>F</b> = Fluorosilicone O-ring (non-conductive)<br><b>C</b> = Conductive fluorosilicone O-ring<br><b>S</b> = Metal EMI panel spring (non-environmental) |              |          |          |           |          |

#### Table 1 Mating Hardware

|  |   |  |
|--|---|--|
| <br><b>N</b><br><b>No Hardware</b><br>Blind tapped holes | <br><b>P</b><br><b>Jackposts</b><br>Non-removable<br>8-32 UNC-2B thread | <br><b>G</b><br><b>Guide Pins</b><br>Non-removable |
|--|---|--|

#### Table 2 Insert Arrangements

| Insert arrangement   | Number of Contacts |    | Insert arrangement   | Number of Contacts |    |
|----------------------|--------------------|----|----------------------|--------------------|----|
|                      | #23                | #8 |                      | #23                | #8 |
| <b>A-1P1, A-1G1*</b> |                    | 1  | <b>D-27P3</b>        | 24                 | 3  |
| <b>A-3P1</b>         | 2                  | 1  | <b>D-4P4, D-4G4*</b> |                    | 4  |
| <b>B-23P1</b>        | 22                 | 1  | <b>D-12P4</b>        | 8                  | 4  |
| <b>B-2P2, B-2G2*</b> |                    | 2  | <b>E-45P3</b>        | 42                 | 3  |
| <b>B-6P2</b>         | 4                  | 2  | <b>E-5P5, E-5G5*</b> |                    | 5  |
| <b>C-24P2</b>        | 22                 | 2  | <b>E-15P5</b>        | 10                 | 5  |
| <b>C-3P3, C-3G3*</b> |                    | 3  | <b>F-9P9, F-9G9*</b> |                    | 9  |
| <b>C-9P3</b>         | 6                  | 3  | <b>F-31P9</b>        | 22                 | 9  |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.

\* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors



### 792-007S El Ochito® PCB Plug Connectors, Panel Mount Straight PC Tail Ochito Octaxial Contacts

#### Ochito Protocols



**WHITE**  
10GBASE-T



**BLUE**  
USB 3.0

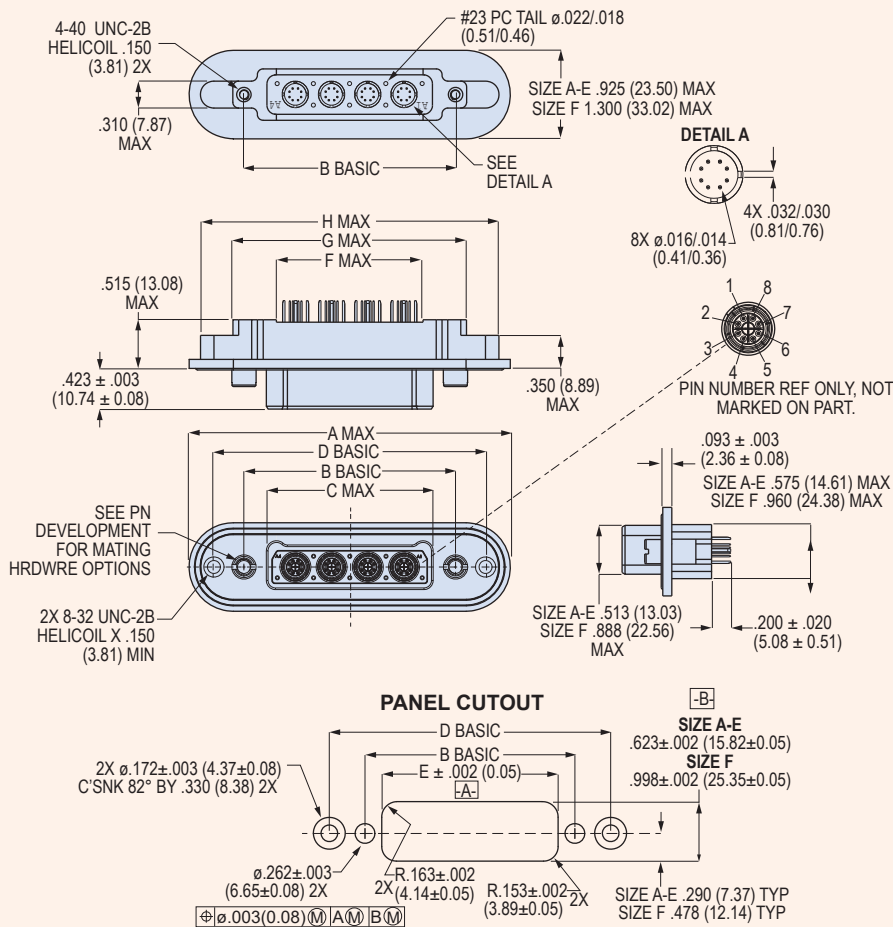


**RED**  
HDMI, SATA,  
DisplayPort

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a protocol code from Table 3. This code enables combinations of these protocols.

#### 792-007S Dimensions

| Shell Size | A Max |       | B Basic |       | C Max |       | D Max |       | E ±.002 (0.05) |       | F Max |       | G Max |       | H Max |       |
|------------|-------|-------|---------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|
|            | In.   | mm.   | In.     | mm.   | In.   | mm.   | In.   | mm.   | In.            | mm.   | In.   | mm.   | In.   | mm.   | In.   | mm.   |
| <b>A</b>   | 2.220 | 56.39 | 1.075   | 27.31 | .615  | 15.62 | 1.699 | 43.15 | .725           | 18.42 | .460  | 11.68 | 1.310 | 33.27 | 1.984 | 50.39 |
| <b>B</b>   | 2.595 | 65.91 | 1.450   | 36.83 | .990  | 25.15 | 2.074 | 52.68 | 1.100          | 27.94 | .835  | 21.21 | 1.685 | 42.80 | 2.359 | 59.92 |
| <b>C</b>   | 2.970 | 75.44 | 1.825   | 46.36 | 1.365 | 34.67 | 2.449 | 62.20 | 1.475          | 37.47 | 1.210 | 30.73 | 2.060 | 52.32 | 2.734 | 69.44 |
| <b>D</b>   | 3.345 | 84.96 | 2.200   | 55.88 | 1.740 | 44.20 | 2.824 | 71.73 | 1.850          | 46.99 | 1.585 | 40.26 | 2.435 | 61.85 | 3.109 | 78.97 |
| <b>E</b>   | 3.720 | 94.49 | 2.575   | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225          | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |
| <b>F</b>   | 3.720 | 94.49 | 2.575   | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225          | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |



#### Table 3 Protocol Code

Code AE



Code AQ

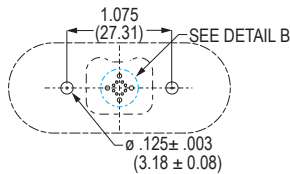


| Code | Cavity |    |    |    |    |    |    |    |    |
|------|--------|----|----|----|----|----|----|----|----|
|      | A1     | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
| AA   | W      | W  | W  | W  | W  | W  | W  | W  | W  |
| AB   | B      | W  | W  | W  | W  | W  | W  | W  | W  |
| AC   | R      | W  | W  | W  | W  | W  | W  | W  | W  |
| AD   | B      | B  | W  | W  | W  | W  | W  | W  | W  |
| AE   | R      | B  | W  | W  | W  | W  | W  | W  | W  |
| AF   | R      | R  | W  | W  | W  | W  | W  | W  | W  |
| AG   | B      | B  | B  | W  | W  | W  | W  | W  | W  |
| AH   | R      | B  | B  | W  | W  | W  | W  | W  | W  |
| AJ   | R      | R  | B  | W  | W  | W  | W  | W  | W  |
| AK   | R      | R  | R  | W  | W  | W  | W  | W  | W  |
| AL   | B      | B  | B  | B  | W  | W  | W  | W  | W  |
| AM   | R      | B  | B  | B  | W  | W  | W  | W  | W  |
| AN   | R      | R  | B  | B  | W  | W  | W  | W  | W  |
| AP   | R      | R  | R  | B  | W  | W  | W  | W  | W  |
| AQ   | R      | R  | R  | R  | W  | W  | W  | W  | W  |
| AR   | B      | B  | B  | B  | B  | W  | W  | W  | W  |
| AS   | R      | B  | B  | B  | B  | W  | W  | W  | W  |
| AT   | R      | R  | B  | B  | B  | W  | W  | W  | W  |
| AV   | R      | R  | R  | B  | B  | W  | W  | W  | W  |
| AW   | R      | R  | R  | R  | B  | W  | W  | W  | W  |
| AX   | R      | R  | R  | R  | R  | W  | W  | W  | W  |
| AY   | B      | B  | B  | B  | B  | B  | W  | W  | W  |
| AZ   | R      | B  | B  | B  | B  | B  | W  | W  | W  |
| BA   | R      | R  | B  | B  | B  | B  | W  | W  | W  |
| BB   | R      | R  | R  | B  | B  | B  | W  | W  | W  |
| BC   | R      | R  | R  | R  | B  | B  | W  | W  | W  |
| BD   | R      | R  | R  | R  | R  | B  | W  | W  | W  |
| BE   | R      | R  | R  | R  | R  | R  | W  | W  | W  |
| BF   | B      | B  | B  | B  | B  | B  | B  | W  | W  |
| BG   | R      | B  | B  | B  | B  | B  | B  | W  | W  |
| BH   | R      | R  | B  | B  | B  | B  | B  | W  | W  |
| BJ   | R      | R  | R  | B  | B  | B  | B  | W  | W  |
| BK   | R      | R  | R  | R  | B  | B  | B  | W  | W  |
| BL   | R      | R  | R  | R  | R  | B  | B  | W  | W  |
| BM   | R      | R  | R  | R  | R  | R  | B  | W  | W  |
| BN   | R      | R  | R  | R  | R  | R  | R  | W  | W  |
| BP   | B      | B  | B  | B  | B  | B  | B  | B  | W  |
| BQ   | R      | B  | B  | B  | B  | B  | B  | B  | W  |
| BR   | R      | R  | B  | B  | B  | B  | B  | B  | W  |
| BS   | R      | R  | R  | B  | B  | B  | B  | B  | W  |
| BT   | R      | R  | R  | R  | B  | B  | B  | B  | W  |
| BV   | R      | R  | R  | R  | R  | B  | B  | B  | W  |
| BW   | R      | R  | R  | R  | R  | R  | B  | B  | W  |
| BX   | R      | R  | R  | R  | R  | R  | R  | B  | W  |
| BY   | R      | R  | R  | R  | R  | R  | R  | R  | W  |
| BZ   | B      | B  | B  | B  | B  | B  | B  | B  | B  |
| CA   | R      | B  | B  | B  | B  | B  | B  | B  | B  |
| CB   | R      | R  | B  | B  | B  | B  | B  | B  | B  |
| CC   | R      | R  | R  | B  | B  | B  | B  | B  | B  |
| CD   | R      | R  | R  | R  | B  | B  | B  | B  | B  |
| CE   | R      | R  | R  | R  | R  | B  | B  | B  | B  |
| CF   | R      | R  | R  | R  | R  | R  | B  | B  | B  |
| CG   | R      | R  | R  | R  | R  | R  | R  | B  | B  |
| CH   | R      | R  | R  | R  | R  | R  | R  | R  | B  |
| CJ   | R      | R  | R  | R  | R  | R  | R  | R  | R  |

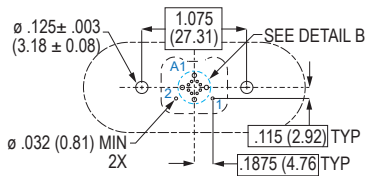
### 792-007S El Ochito<sup>®</sup> PCB Plug Connectors, Panel Mount Straight PC Tail Ochito Octaxial Contacts

#### 792-007S Printed Circuit Board Layouts

##### SHELL SIZE A

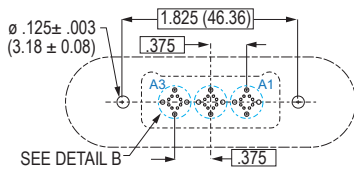


**A-1P1, A-1G1**

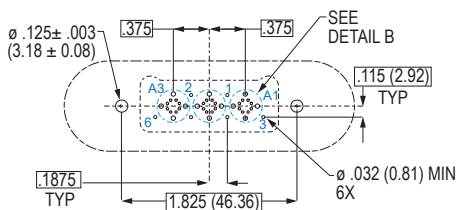


**A-3P1**

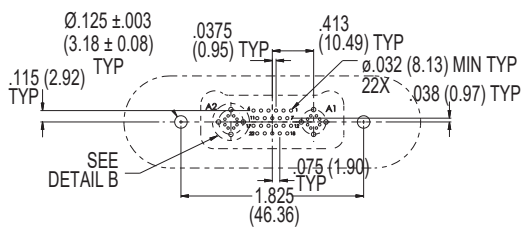
##### SHELL SIZE C



**C-3P3, C-3G3**

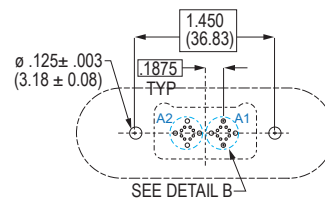


**C-9P3**

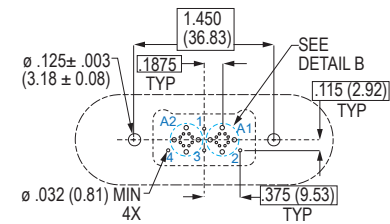


**C-24P2**

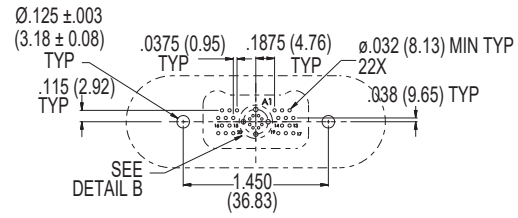
##### SHELL SIZE B



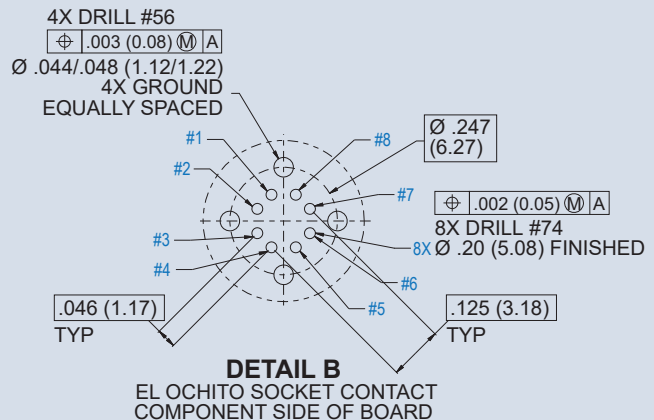
**B-2P2, B-2G2**



**B-6P2**



**B-23P1**



See Glenair Application Note AN0002 for optimal performance