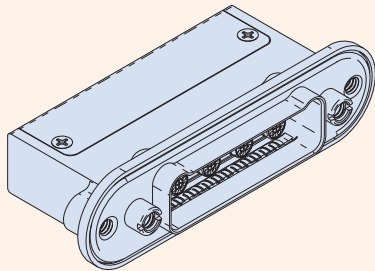


# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors



### 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount 90° PC Tail Ochito Octaxial Contacts



**Ultraminiature. High-speed. Right Angle Board Mount.** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-012P connectors feature 90° PCB tails, Ochito octaxial contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

#### 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
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Interfacial seal: fluorosilicone blend
- Potting compound: epoxy
- EMI spring: copper alloy, nickel plated
- O-ring: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- Hardware: 300 series SST, passivated

#### How To Order

|                                  | Sample P/N → 792-012P   | C-3P3 | M | E | N | AA | F |
|----------------------------------|---|-------|---|---|---|----|---|
| <b>Product</b>                   | 792-012P = Panel Receptacle, 90° PC Tail Pin Contacts   |       |   |   |   |    |   |
| <b>Insert Arrangement</b>        | See Table 2   |       |   |   |   |    |   |
| <b>Shell Finish</b>              | M = Electroless Nickel<br>MT = Nickel-PTFE<br>ZR = Black Zinc-Nickel  |       |   |   |   |    |   |
| <b>EMI Spring</b>                | E = EMI Spring<br>N = Omit EMI Spring   |       |   |   |   |    |   |
| <b>Mating Hardware (Table 1)</b> | N = No hardware<br>P = Jackposts<br>B = Female Guide Bushings   |       |   |   |   |    |   |
| <b>El Ochito® Protocol Code</b>  | See Table 3   |       |   |   |   |    |   |
| <b>O-ring</b>                    | N = No O-ring<br>F = Fluorosilicone O-ring (non-conductive)<br>C = Conductive fluorosilicone O-ring<br>S = Metal EMI panel spring (non-environmental) |       |   |   |   |    |   |

#### Table 1 Mating Hardware

|  |   |  |
|--|---|--|
| <br><b>N</b><br><b>No Hardware</b><br>Blind tapped holes<br>8-32 UNC-2B .150 (3.81) Min. | <br><b>P</b><br><b>Jackposts</b><br>Non-removable<br>8-32 UNC-2B thread | <br><b>B</b><br><b>Guide Bushings</b><br>Non-removable |
|--|---|--|

#### Table 2 Insert Arrangements

Cavity identification numbers shown are for mating face of receptacle connectors with pin contacts.

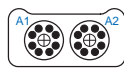
\* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.



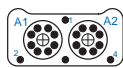
1 Ochito  
**A-1P1**  
**A-1G1\***



1 Ochito, 2 #23  
**A-3P1**



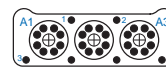
2 Ochitos  
**B-2P2**  
**B-2G2\***



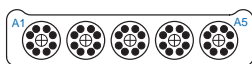
2 Ochitos, 4 #23  
**B-6P2**



3 Ochitos  
**C-3P3**  
**C-3G3\***



3 Ochitos, 6 #23  
**C-9P3**



5 Ochitos  
**D-4P4**  
**D-4G4\***



5 Ochitos, 10 #23  
**D-12P4**

# SERIES 792

High-Speed Ultraminiature Rectangular Connectors



## 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount 90° 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 the protocols.

### Table 3 Protocol Code

Code AA



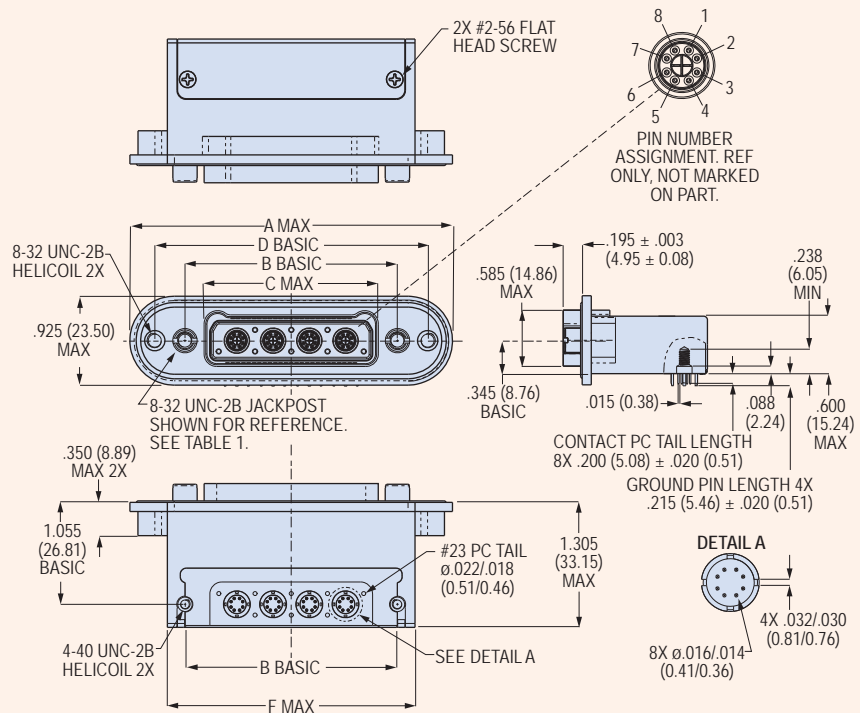
Code AH



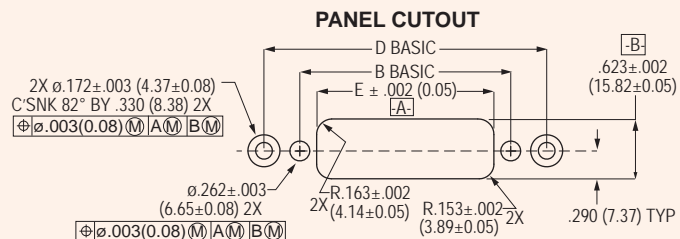
| Code | Cavity |    |    |    |    |
|------|--------|----|----|----|----|
|      | A1     | A2 | A3 | A4 | A5 |
| AA   | W      | W  | W  | W  | W  |
| AB   | B      | W  | W  | W  | W  |
| AC   | R      | W  | W  | W  | W  |
| AD   | B      | B  | W  | W  | W  |
| AE   | R      | B  | W  | W  | W  |
| AF   | R      | R  | W  | W  | W  |
| AG   | B      | B  | B  | W  | W  |
| AH   | R      | B  | B  | W  | W  |
| AJ   | R      | R  | B  | W  | W  |
| AK   | R      | R  | R  | W  | W  |
| AL   | B      | B  | B  | B  | W  |
| AM   | R      | B  | B  | B  | W  |
| AN   | R      | R  | B  | B  | W  |
| AP   | R      | R  | R  | B  | W  |
| AQ   | R      | R  | R  | R  | W  |
| AR   | B      | B  | B  | B  | B  |
| AS   | R      | B  | B  | B  | B  |
| AT   | R      | R  | B  | B  | B  |
| AV   | R      | R  | R  | B  | B  |
| AW   | R      | R  | R  | R  | B  |
| AX   | R      | R  | R  | R  | R  |

### 792-012P Dimensions

| Shell Size | A Max |       | B Basic |       | C Max |       | D Basic |       | E ±.002 (0.05) |       | F Max |       |
|------------|-------|-------|---------|-------|-------|-------|---------|-------|----------------|-------|-------|-------|
|            | In.   | mm.   | In.     | mm.   | In.   | mm.   | In.     | mm.   | In.            | mm.   | In.   | mm.   |
| A          | 2.220 | 56.39 | 1.075   | 27.31 | .690  | 17.53 | 1.699   | 43.15 | .725           | 18.42 | 1.455 | 36.96 |
| B          | 2.595 | 65.91 | 1.450   | 36.83 | 1.065 | 27.05 | 2.074   | 52.68 | 1.100          | 27.94 | 1.830 | 46.82 |
| C          | 2.970 | 75.44 | 1.825   | 46.36 | 1.440 | 36.58 | 2.449   | 62.20 | 1.475          | 37.47 | 2.205 | 56.01 |
| D          | 3.345 | 84.96 | 2.200   | 55.88 | 1.815 | 46.10 | 2.824   | 71.73 | 1.850          | 46.99 | 2.580 | 65.53 |
| E          | 3.720 | 94.49 | 2.575   | 65.41 | 2.190 | 55.62 | 3.199   | 81.25 | 2.225          | 56.52 | 2.955 | 75.06 |



### 792-012P Panel Cutout



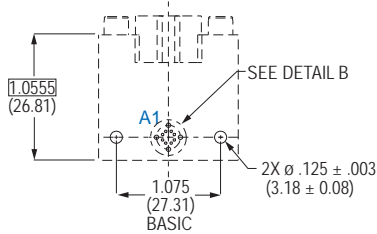
# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors

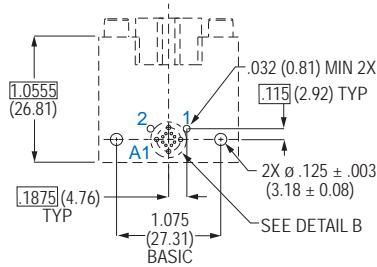


### 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount 90° PC Tail Ochito Octaxial Contacts

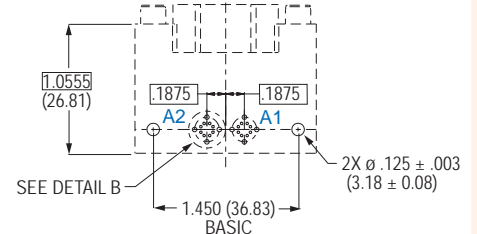
#### 792-012P Printed Circuit Board Layouts



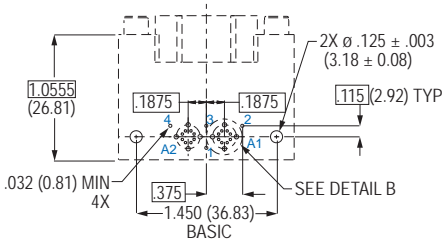
**A-1P1, A-1G1**



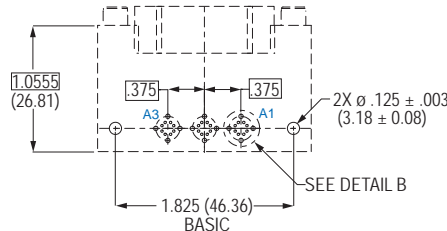
**A-3P1**



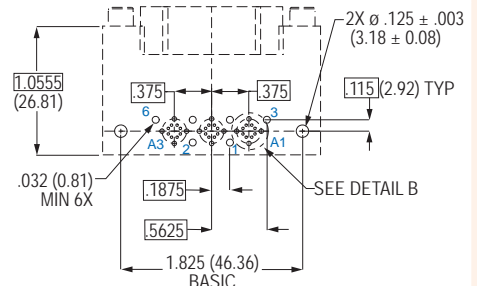
**B-2P2, B-2G2**



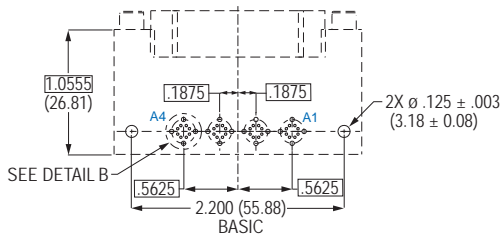
**B-6P2**



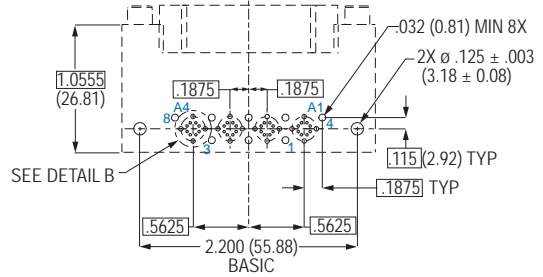
**C-3P3, C-3G3**



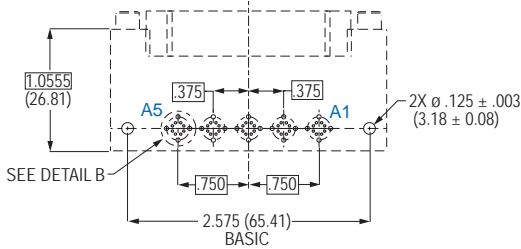
**C-9P3**



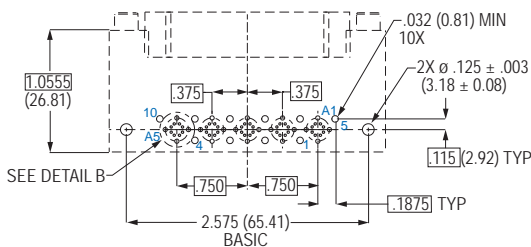
**D-4P4, D-4G4**



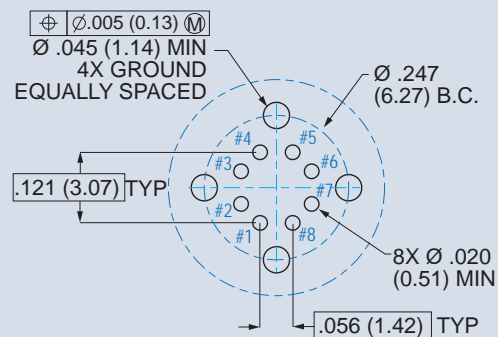
**D-12P4**



**E-5P5, E-5G5**



**E-15P5**



**DETAIL B**  
EL OCHITO PIN CONTACT  
792-010, 792-012  
COMPONENT SIDE OF BOARD

See Glenair Application Note AN0002 for optimal performance