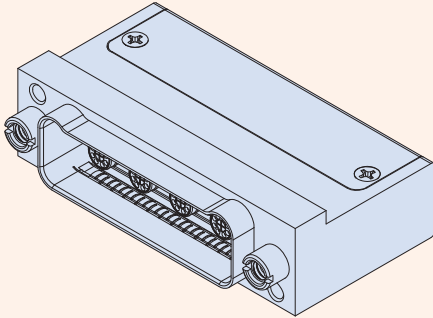


# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors



### 792-010P El Ochito® Right Angle PCB Receptacle Connectors 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. 792-010P connectors feature 90° Ochito octaxial PCB tail 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.
- Shell-to-shell resistance with EMI spring: 2.5 mΩ max.
- Altitude immersion: 75,000 feet

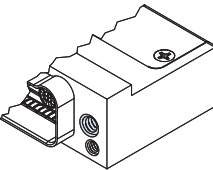
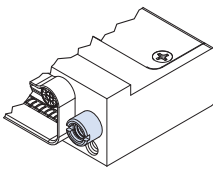
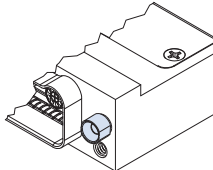
##### Construction

- Shell: aluminum alloy
- Metal insert: aluminum, nickel plated
- Insulators: high-grade rigid dielectric
- Interfacial seal: fluorosilicone blend
- Contacts: copper alloy, 50 microinches gold over nickel plating
- EMI spring: copper alloy, nickel plated
- Potting Compound: epoxy
- EMI cover: aluminum, same finish as shell
- Hardware: 300 series SST, passivated

#### How To Order

	Sample Part Number → <b>792-010P</b>	<b>D-4P4</b>	<b>MT</b>	<b>E</b>	<b>N</b>	<b>AA</b>
<b>Product</b>	<b>792-010P</b> = Right Angle PCB Receptacle, Ochito Pin Contacts.					
<b>Insert Arrangement</b>	See Table 2					
<b>Shell Finish</b>	<b>M</b> = Electroless Nickel <b>MT</b> = Nickel-PTFE <b>ZR</b> = Black Zinc-Nickel					
<b>EMI Spring</b>	<b>E</b> = EMI spring <b>N</b> = No EMI spring					
<b>Mating Hardware (Table 1)</b>	<b>N</b> = No Hardware <b>P</b> = Jackposts <b>B</b> = Guide Bushings					
<b>El Ochito® Protocol Code</b>	See Table 3					

#### Table 1 Hardware Option

 <b>N</b> <b>No Hardware</b> Blind tapped holes	 <b>P</b> <b>Jackposts</b> 8-32 UNC-2B thread	 <b>B</b> <b>Female Guide Bushings</b> Non-removable
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#### Table 2 Insert Arrangements

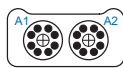
Cavity identification numbers shown are for mating face of receptacle connectors with pin contacts.  
 \* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.



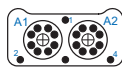
1 Ochito  
**A-1P1**  
**A-1G1\***



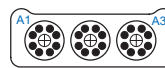
1 Ochito, 2 #23  
**A-3P1**



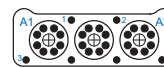
2 Ochitos  
**B-2P2**  
**B-2G2\***



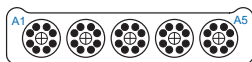
2 Ochitos, 4 #23  
**B-6P2**



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



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



5 Ochitos  
**E-5P5**  
**E-5G5\***



5 Ochitos, 10 #23  
**E-15P5**

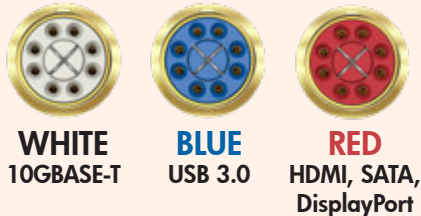
# SERIES 792

High-Speed Ultraminiature Rectangular Connectors



## 792-010P El Ochito® Right Angle PCB Receptacle Connectors 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 these protocols.

### Table 3 Protocol Code

Code AA



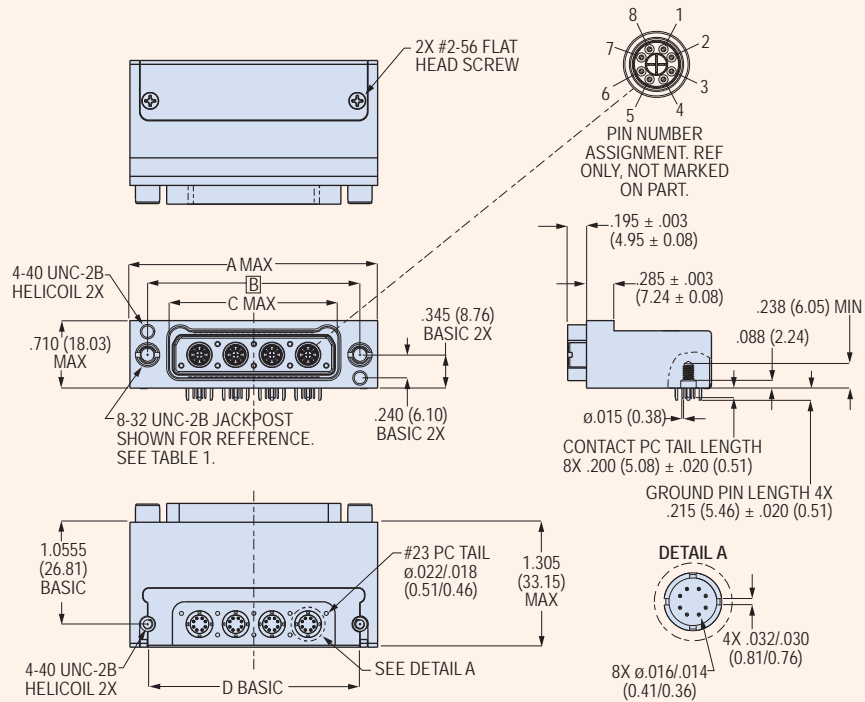
Code AH



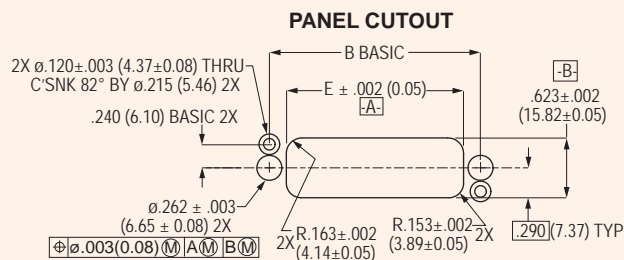
Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R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

### 792-010P Dimensions

Shell Size	A Max		B Basic		C Max		D Basic		E ±.002 (0.05)	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.455	36.96	1.075	27.31	.690	17.53	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.63	2.575	65.41	2.225	56.52



### 792-010P Panel Cutout



# SERIES 792

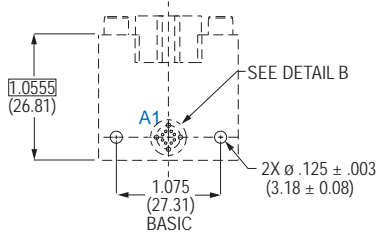
## High-Speed Ultraminiature Rectangular Connectors



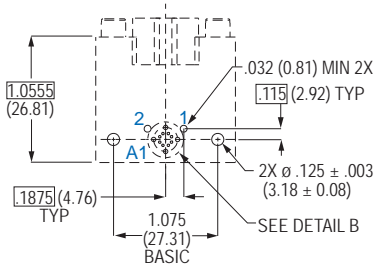
# 792-010P El Ochito® Right Angle PCB Receptacle Connectors

## 90° PC Tail Ochito Octaxial Contacts

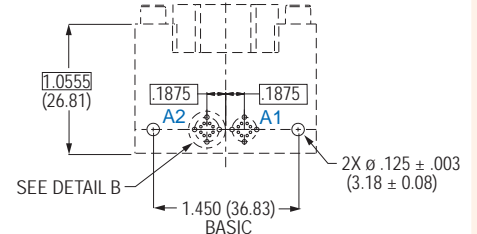
### 792-010P Printed Circuit Board Layouts



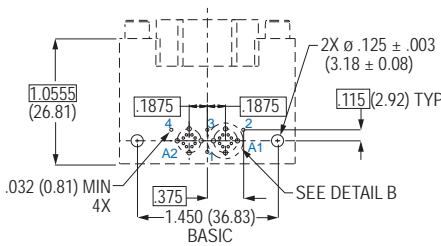
**A-1P1, A-1G1**



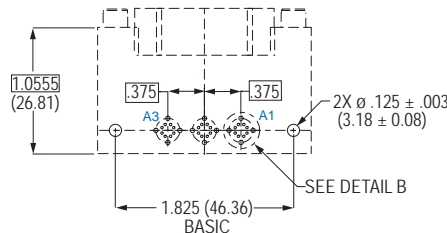
**A-3P1**



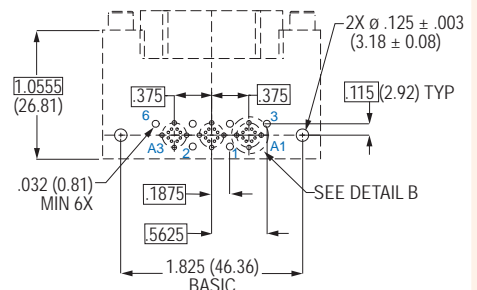
**B-2P2, B-2G2**



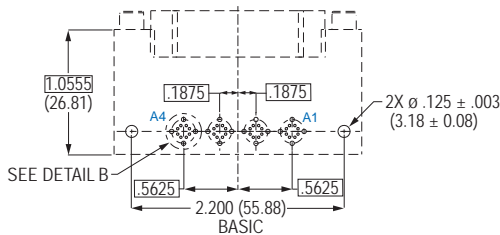
**B-6P2**



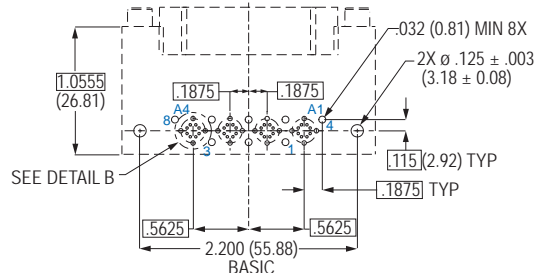
**C-3P3, C-3G3**



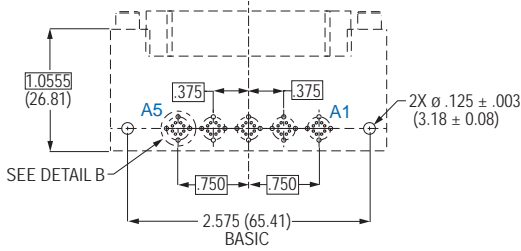
**C-9P3**



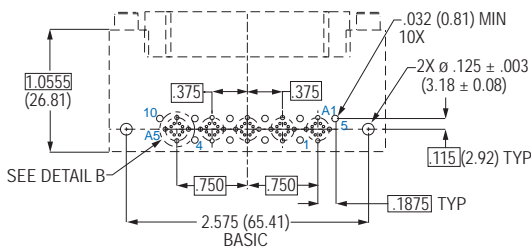
**D-4P4, D-4G4**



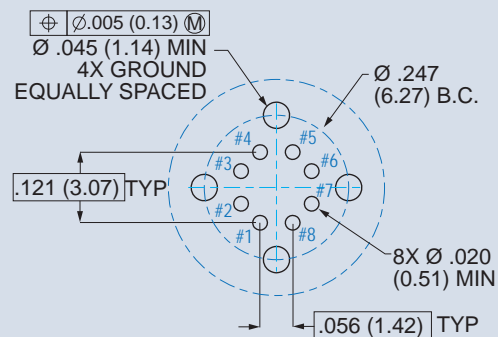
**D-12P4**



**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