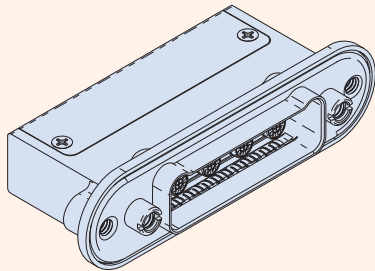


# SERIES 792

## 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	
<b>Specifications</b>	
■	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
<b>Construction</b>	
■	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 MT = Nickel-PTFE						
<b>EMI Spring</b>	E = EMI Spring N = Omit EMI Spring						
<b>Mating Hardware (Table 1)</b>	N = No hardware P = Jackposts B = Female Guide Bushings						
<b>El Ochito® Protocol Code</b>	See Table 3						
<b>O-ring</b>	N = No O-ring F = Fluorosilicone O-ring (non-conductive) C = Conductive fluorosilicone O-ring S = Metal EMI panel spring (non-environmental)						

#### Table 1 Mating Hardware

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

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

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



## 792-012P 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



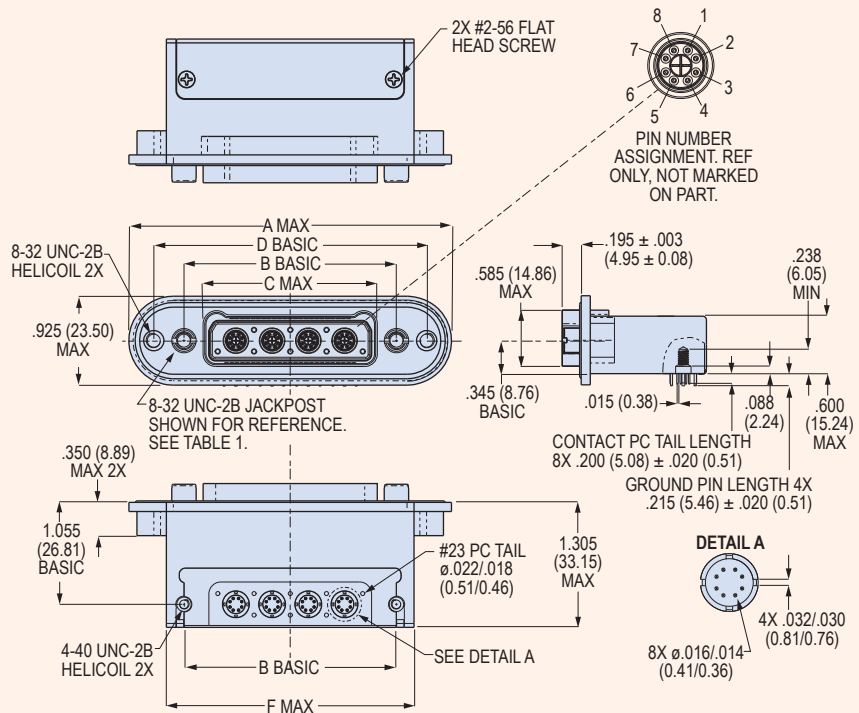
Code AH



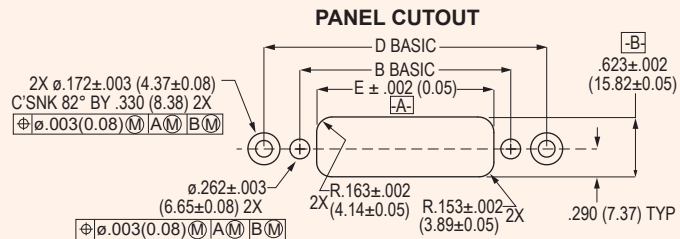
Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R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

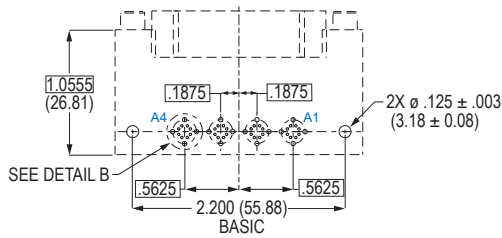
## High-Speed Ultraminiature Rectangular Connectors



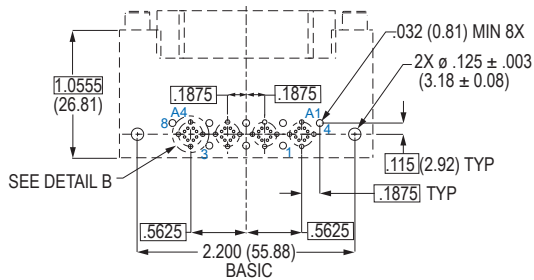
### 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount 90° PC Tail Ochito Octaxial Contacts

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

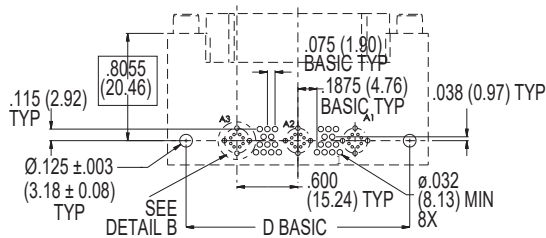
##### SHELL SIZE D



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

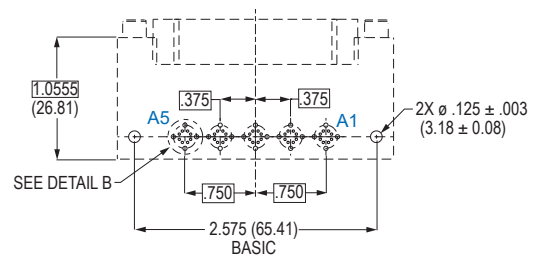


**D-12P4**

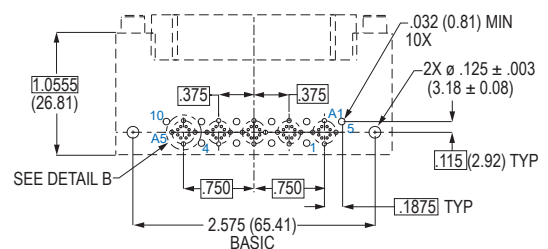


**D-27W3**

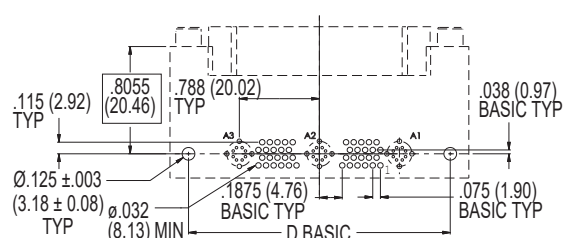
##### SHELL SIZE E



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



**E-15P5**



**E-45W3**

