

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES
792
High-Speed

792-009

PCB Plug, 90° Tails, El Ochito®

- ◆ Octaxial PC tail contacts
- ◆ 90° mounting
- ◆ Socket contacts



792-009 plug has El Ochito® high-speed octaxial PC tail socket contacts for 90° 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 octaxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts	
		#8	#23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42

HOW TO ORDER

Sample Part Number		792-009S	D-4P4	M	P	AA	B	
Basic Part Number	792-009S		PCB Plug, 90° Tails, Octaxial Socket Contacts					
Shell Size-Insert Arr.	See “ <i>Insert Arrangements</i> ” Table							
Shell Finish	M Electroless Nickel							
	MT Nickel / PTFE							
	N Olive Drab Cadmium							
	TZ Tin-Zinc							
	ZR Black Zinc-Nickel							
Hardware Option Table 1	N No Hardware <i>Threaded holes</i> G Guide Pins <i>For blind mating</i> P Female Jackposts							
Protocol Code	See “ <i>Protocol Code</i> ” table on next page							
Polarization Key Option	Enter Letter Designator for Position A, B, C, D, E, F, G, H, J , or K per Mod Code 1104 (see page C-8 for details) Omit for none							

TABLE 1 HARDWARE OPTION

 N No Hardware Threaded Hole 10-32 UNF-2B. 150 (3.81) min. depth	 P Female Jackpost 8-32 UNC-2B	 G Guide Pin
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RATINGS

- Voltage (DWV): 100 VAC
- Current: #23 1A
- Operating temperature: -65 to +150 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random

CONSTRUCTION

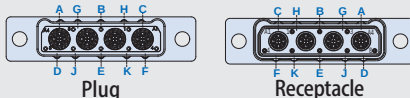
- #23 Contacts: Copper alloy, gold over nickel finish, stainless steel hood
- Ochito contact: Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- Shell: Aluminum
- Insulator: High performance thermoplastic
- Encapsulant: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



Application Note

Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



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OCHITO PROTOCOLS



WHITE
1000BASE-T
10GBASE-T



BLUE
USB 3.0



RED
HDMI, SATA,
DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed 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 code from the **Protocol Code** table. This code enables combinations of protocols as shown in the examples below.



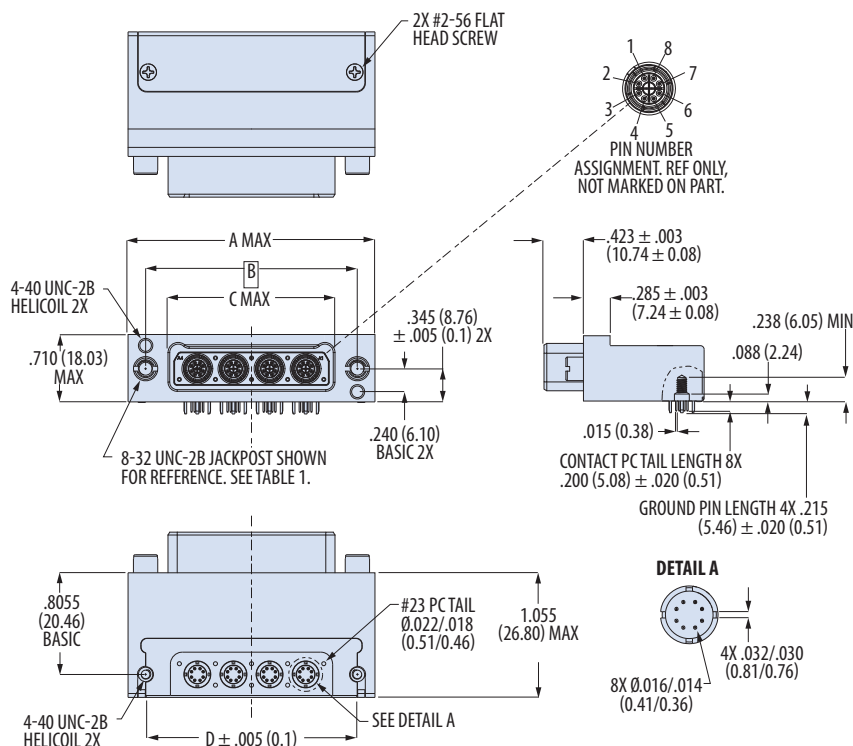
Code AE



Code AQ

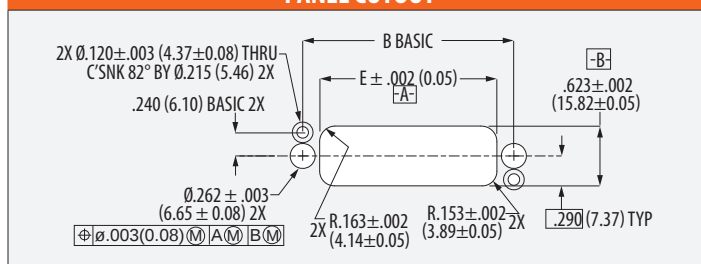
PROTOCOL CODE

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



Shell Size	A Max		B ±.005 (0.1)		C Max		D ±.005 (0.1)		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	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	2.575	65.41	2.225	56.52

PANEL CUTOUT



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PCB FOOTPRINTS FOR 792-009 CONNECTOR

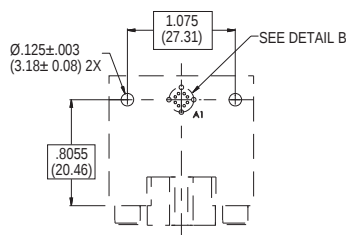
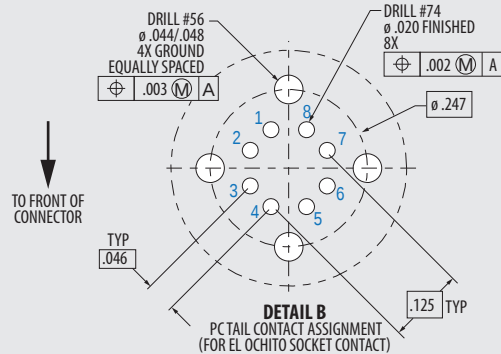
⚠ Optimizing PCB Design

See Glenair Application Note AN0002 *Design and Installation of El Ochito PCB Connectors* for recommended solder pad sizing, trace routing, and connector installation.

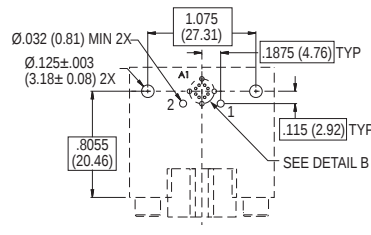
<https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf>

PCB hole patterns are shown for the **component mounting side** of the circuit board.

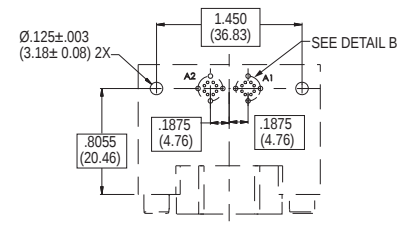
Detail B



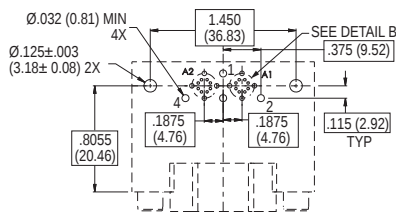
A-1P1 A-1G1



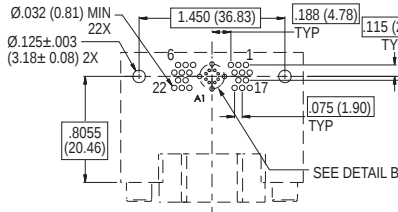
A-3P1



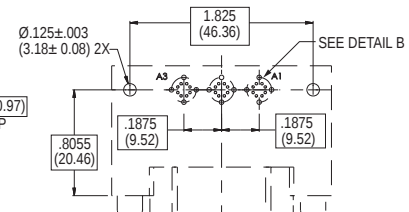
B-2P2 B-2G2



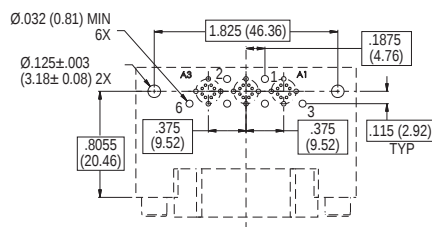
B-6P2



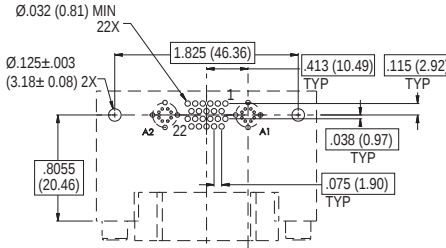
B-23P1



C-3P3 C-3G3



C-9P3



C-24P2

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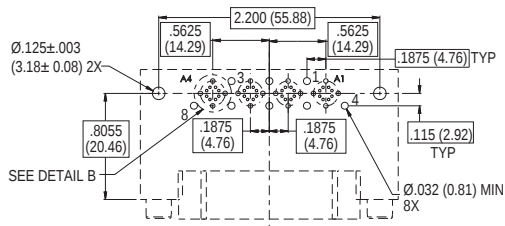


792-009

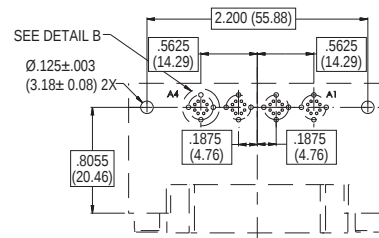
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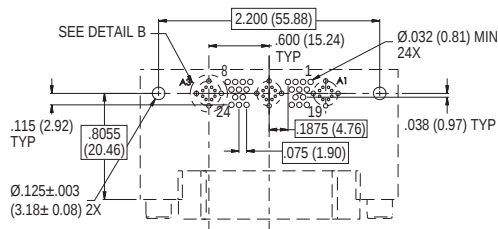
PCB FOOTPRINTS FOR 792-009 CONNECTOR



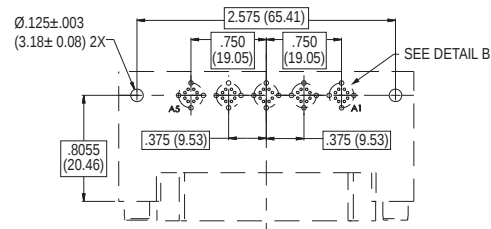
D-12P4



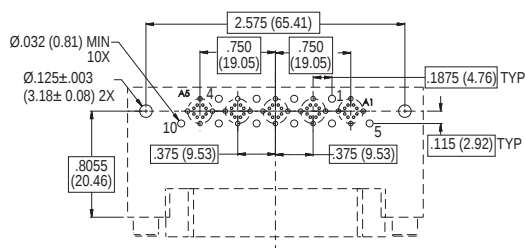
D-4P4 D-4G4



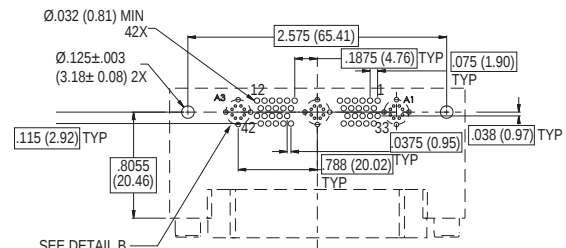
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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