

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES
792
High-Speed

792-005

PCB Plug, Straight Tails, El Ochito®

- ◆ Octaxial PC tail contacts
- ◆ Straight PCB tails
- ◆ Socket contacts



792-005 plug has El Ochito® high-speed octaxial PC tail socket contacts for 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
- 1–9 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
F-9W9	F-9G9	9	–
F-31W9		9	22

OCHITO PROTOCOLS



WHITE
1000 / 10G /
40GBASE-T



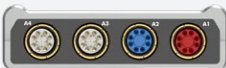
BLUE
USB 3.0



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



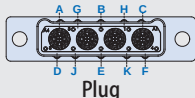
Code AQ



Application Note

Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



Plug



Receptacle

HOW TO ORDER

Sample Part Number		792-005S	D-4P4	M	R3	AA	B
Basic Part Number	792-005S PCB Plug, Straight Tails, Octaxial Socket Contacts						
Shell Size-Insert Arr.	See “ <i>Insert Arrangements</i> ” Table						
Shell Finish	M Electroless Nickel MT Nickel / PTFE NF Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel						
Jackpost Option <i>Table 1</i>	N No Jackposts P Female Jackposts R1 Rear Panel Mount Jackposts .032 (0.81) Panel Thickness R2 Rear Panel Mount Jackposts .050 (1.27) Panel Thickness R3 Rear Panel Mount Jackposts .062 (1.59) Panel Thickness R4 Rear Panel Mount Jackposts .080 (2.03) Panel Thickness R5 Rear Panel Mount Jackposts .093 (2.36) Panel Thickness R6 Rear Panel Mount Jackposts .125 (3.18) Panel Thickness						
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 JACKPOST OPTION

N No Jackpost Threaded Hole 10-32 UNF-2B .150 (3.81) min. depth		P Female Jackpost #8-32 UNC-2B		R1 - R6 Rear Panel Jackpost #8-32 UNC-2B	
--	--	---	--	--	--

RATINGS

- Voltage (DWV): 500 VAC
- Current: #23 5A
- Operating temperature: -65 to +125 °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
- Face seal: Fluorosilicone/silicone blend
- Encapsulant: Epoxy
- Hardware: Stainless steel, passivated

Glenair

PCB Plug, Straight Tails, El Ochoito®

- ◆ Octaxial PC tail contacts
- ◆ Straight PCB tails
- ◆ Socket contacts

Technical drawing of the 8-32 UNC-2B 2 PLCS connector, showing dimensions in inches (in) and millimeters (mm).

Top View Dimensions:

- SIZE A-E: .710 (18.03)
- SIZE F: 1.085 (27.56) MAX
- A MAX
- B
- C MAX
- INSERT PATTERN D-12P4 SHOWN FOR REFERENCE
- SIZE A-E: .513 (13.13)
- SIZE F: .888 (22.56) MAX
- .093 ± .003 (2.36 ± 0.08)
- 200 ± .030 (5.08 ± 0.76)

Side View Dimensions:

- JACKPOST 8-32 UNC-2B 2 PLCS
- .520 (13.21) MAX
- D MAX
- 423 ± .003 (10.74 ± 0.08)
- PIN NUMBER ASSIGNMENT. REF ONLY, NOT MARKED ON PART.
- 1 8 7 6 5 4 3 2

Bottom View Dimensions:

- .310 (7.87) MAX
- 4-40 UNC-2B HELICOIL .150 (3.81) MIN THD 2X
- #23 PCTAIL 0.022/.018 (0.51/.46)
- SEE DETAIL A
- DETAIL A
- 4X .032/.030 (0.81/.76)
- 8X 0.016/.014 (0.41/.36)

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		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	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52

Technical drawing of a shaft with the following dimensions and tolerances:

- Overall length: $B \pm .002$ (0.05)
- Overall diameter: $\phi .623 \pm .002$ (15.82 $\pm$ 0.05)
- Overall diameter: $\phi .998 \pm .002$ (25.35 $\pm$ 0.05)
- Overall diameter: $\phi .262 \pm .003$ (6.65 $\pm$ 0.08) 2X
- Overall diameter: $\phi .163 \pm .002$ (4.14 $\pm$ 0.05) 2X
- Overall diameter: $\phi .153 \pm .002$ (3.89 $\pm$ 0.05) 2X
- Overall diameter: $\phi .290$ (7.37) TYP
- Overall diameter: $\phi .478$ (12.14) TYP

Code	A $\pm$.010 (0.25) in	mm
R1	.032	0.81
R2	.050	1.27
R3	.062	1.59
R4	.080	2.03
R5	.093	2.36
R6	.125	3.18

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES™
792
High-Speed

792-005

PCB Plug, Straight Tails, El Ochito®

- ◆ Octaxial PC tail contacts
- ◆ Straight PCB tails
- ◆ Socket contacts

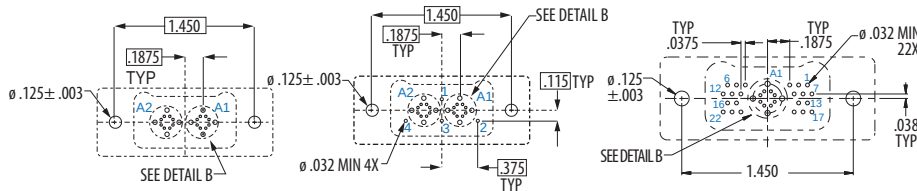
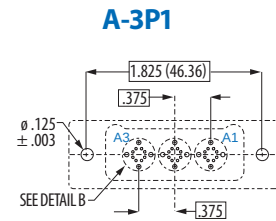
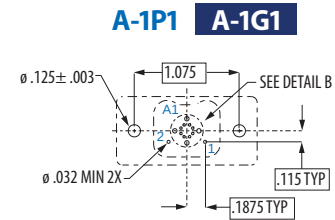
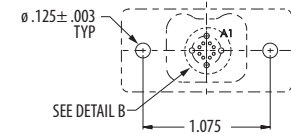
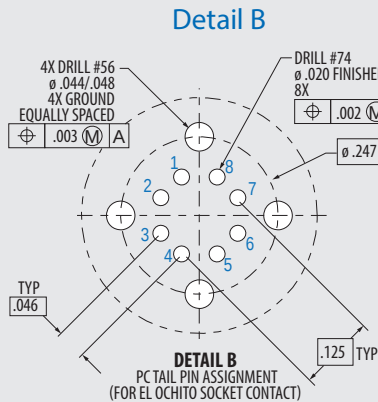
PCB FOOTPRINTS FOR 792-005 CONNECTOR

⚠ 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>

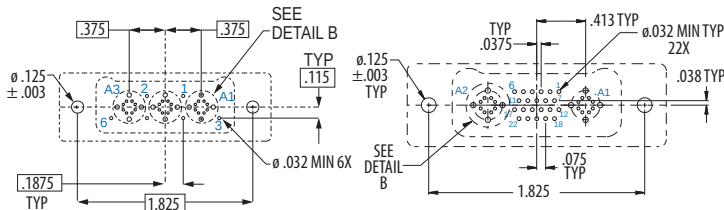
PCB hole patterns are shown for the **component mounting side** of the circuit board.



B-2P2 B-2G2

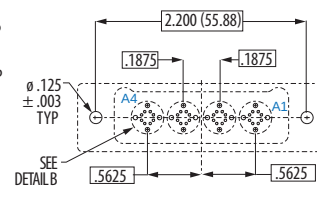
B-6P2

B-23P1

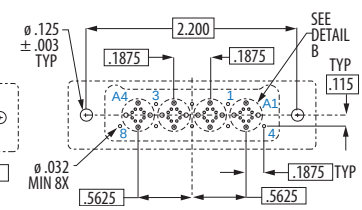


C-9P3

C-24P2

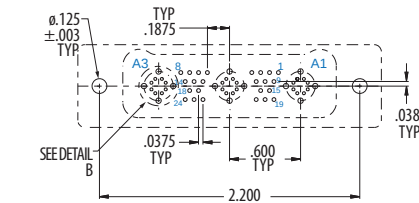


D-4P4 D-4G4

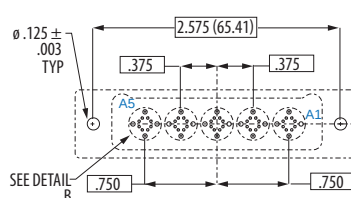


C-3P3 C-3G3

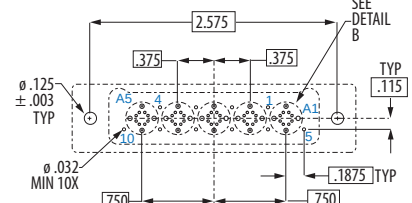
D-12P4



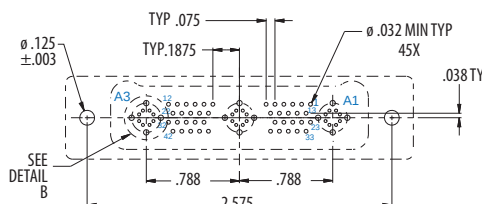
D-27P3



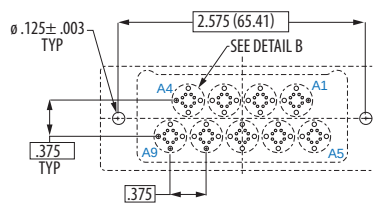
E-5P5 E-5G5



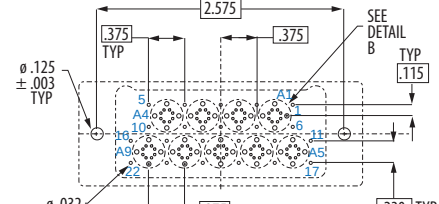
E-15P5



E-45P3



F-9P9 F-9G9



F-31P9