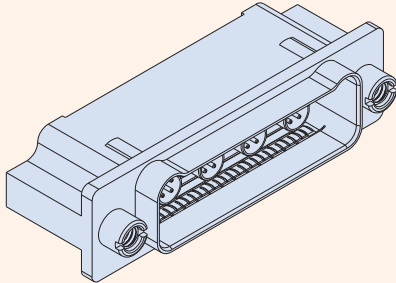


# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors



### 792-019P Quadrax PCB Receptacle Connectors Epoxy-Sealed Straight PC Tail Quadrax Contacts



#### 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

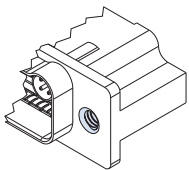
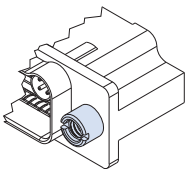
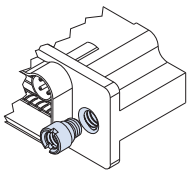
- Shell: aluminum alloy
- Metal insert: aluminum, nickel plated
- Insulators: high-grade rigid dielectric
- Interfacial seal: fluorosilicone blend
- Size 23 contacts: copper alloy, 50 microinches gold over nickel plating
- Quadrax contacts  
Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- EMI spring: copper alloy, nickel plated
- Hardware: 300 series SST, passivated
- Potting compound: epoxy

**Board mount Quadrax contacts. EMI protection.** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-019P connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

#### How To Order

	Sample Part Number → <b>792-019P</b>	<b>D-4P4</b>	<b>MT</b>	<b>E</b>	<b>R1</b>
<b>Product</b>	<b>792-019P</b> = PCB Receptacle, Pin Quadrax Contacts				
<b>Insert Arrangement</b>	See Table 2				
<b>Shell Finish</b>	<b>M</b> = Electroless Nickel <b>MT</b> = Nickel-PTFE				
<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 jackposts <b>P</b> = Jackposts <b>R1</b> = Rear panel jackposts, .032 (0.81) panel <b>R2</b> = Rear panel jackposts, .050 (1.27) panel <b>R3</b> = Rear panel jackposts, .062 (1.59) panel <b>R4</b> = Rear panel jackposts, .080 (2.03) panel <b>R5</b> = Rear panel jackposts, .093 (2.36) panel <b>R6</b> = Rear panel jackposts, .125 (3.18) panel				

#### Table 1 Mating Hardware

 <b>N</b> <b>No Hardware</b> Blind tapped holes	 <b>P</b> <b>Jackposts</b> 8-32 UNC-2B thread	 <b>R1 - R6</b> <b>Rear Panel Jackposts</b> 8-32 UNC-2B thread.
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#### Table 2 Insert Arrangements

Insert arrangement	Number of Contacts		Insert arrangement	Number of Contacts	
	#23	#8		#23	#8
<b>A-1P1, A-1G1*</b>		1	<b>D-27P3</b>	24	3
<b>A-3P1</b>	2	1	<b>D-4P4, D-4G4*</b>		4
<b>B-23P1</b>	22	1	<b>D-12P4</b>	8	4
<b>B-2P2, B-2G2*</b>		2	<b>E-45P3</b>	42	3
<b>B-6P2</b>	4	2	<b>E-5P5, E-5G5*</b>		5
<b>C-24P2</b>	22	2	<b>E-15P5</b>	10	5
<b>C-3P3, C-3G3*</b>		3	<b>F-9P9, F-9G9*</b>		9
<b>C-9P3</b>	6	3	<b>F-31P9</b>	22	9

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.

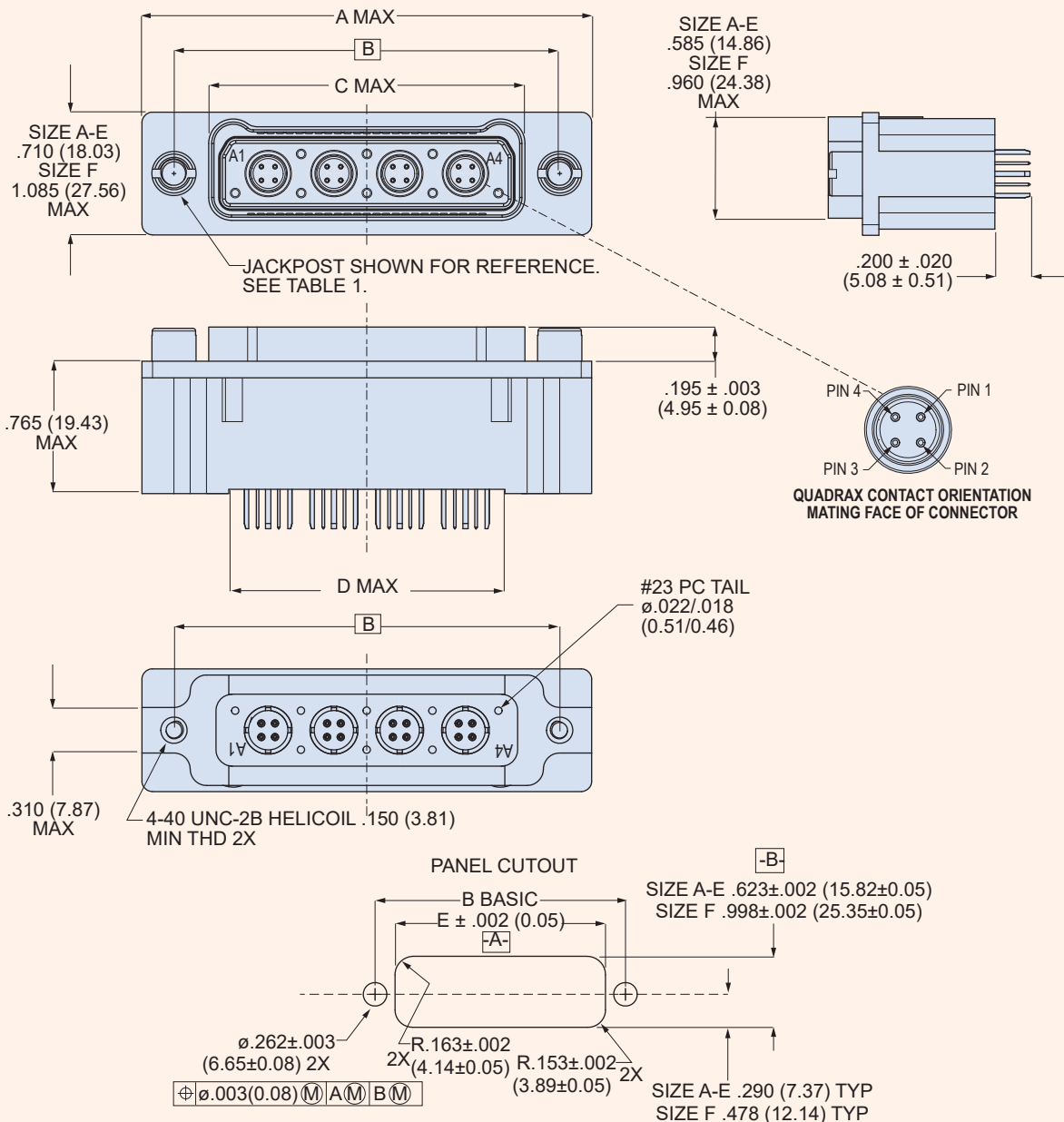
# SERIES 792

## High-Speed Ultraminiature Rectangular Connectors

### 792-019P Quadrax PCB Receptacle Connectors

#### Epoxy-Sealed Straight PC Tail Quadrax Contacts

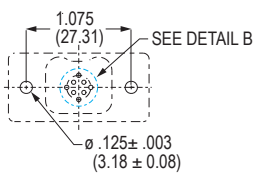
792-019P Dimensions										
Shell Size	A Max		B Basic		C Max		D Max		E ±.002 (0.05)	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
<b>A</b>	1.455	36.96	1.075	27.31	.690	17.53	.460	11.68	.725	18.42
<b>B</b>	1.830	46.48	1.450	36.83	1.065	27.05	.835	21.21	1.100	27.94
<b>C</b>	2.205	56.01	1.825	46.36	1.440	36.58	1.210	30.73	1.475	37.47
<b>D</b>	2.580	65.53	2.200	55.88	1.815	46.10	1.585	40.26	1.850	46.99
<b>E</b>	2.955	75.06	2.575	65.41	2.190	55.63	1.960	49.78	2.225	56.52
<b>F</b>	2.955	75.06	2.575	65.41	2.190	55.63	1.960	49.78	2.225	56.52



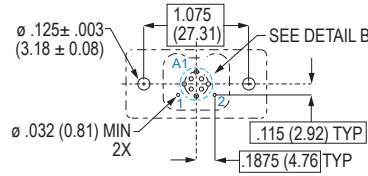
### 792-019P Quadrax PCB Receptacle Connectors

#### Epoxy-Sealed Straight PC Tail Quadrax Contacts

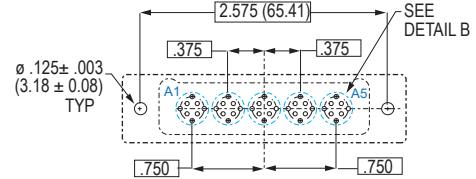
#### 792-019P Printed Circuit Board Layouts



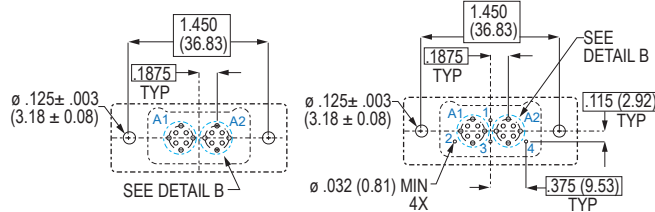
**A-1P1, A-1G1**



**A-3P1**

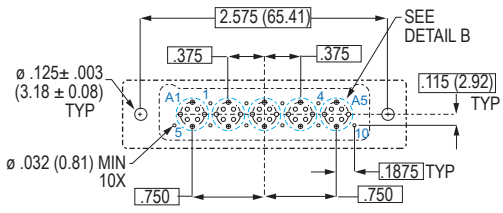


**E-5P5, E-5G5**

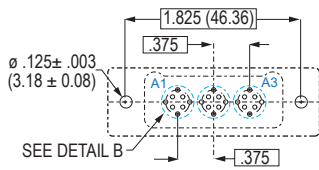


**B-2P2, B-2G2**

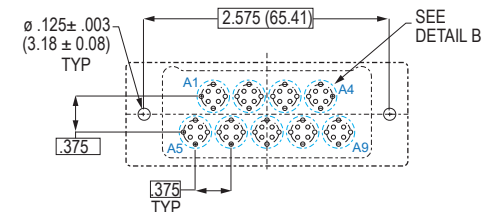
**B-6P2**



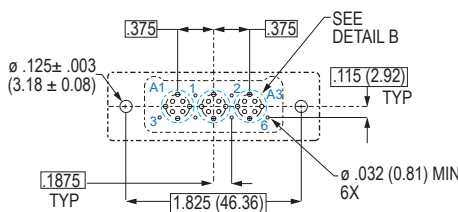
**E-15P5**



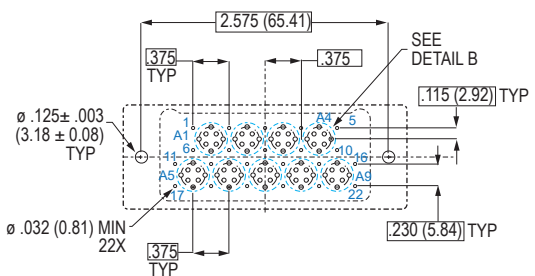
**C-3P3, C-3G3**



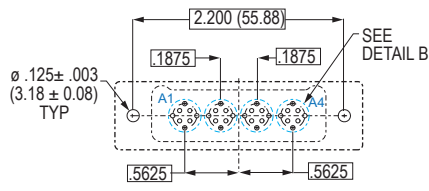
**F-9P9, F-9G9**



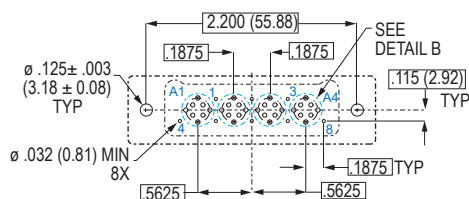
**C-9P3**



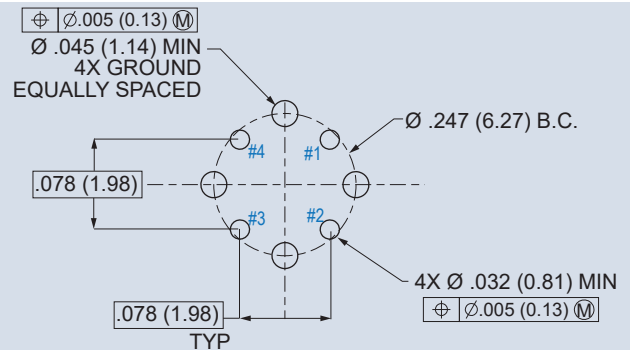
**F-31P9**



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



**D-12P4**



**DETAIL B**  
QUADRAX PIN CONTACT  
COMPONENT SIDE OF BOARD