**Series 792 High-Speed Ultraminiature Rectangular Connectors**

**792-018S Quadrax PCB Plug Connectors**

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

*Board mount Quadrax contacts. EMI protection.* Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-018S 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.

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**How To Order**

<table>
<thead>
<tr>
<th>Sample P/N</th>
<th>792-018S</th>
<th>D-12P4</th>
<th>MT</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
<td>792-018S = PCB Plug, Quadrax Socket Contacts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Insert Arrangement</strong></td>
<td>See Table 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shell Finish</strong></td>
<td>M = Electroless Nickel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MT = Nickel-PTFE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ZR = Black Zinc-Nickel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mating Hardware</strong></td>
<td>N = No jackpost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P = Jackpost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R1 = Rear panel jackpost, .032 (0.81) panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R2 = Rear panel jackpost, .050 (1.27) panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R3 = Rear panel jackpost, .062 (1.59) panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R4 = Rear panel jackpost, .080 (2.03) panel</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R5 = Rear panel jackpost, .093 (2.36) panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R6 = Rear panel jackpost, .125 (3.18) panel</td>
<td></td>
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</tr>
</tbody>
</table>

**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
- Size 23 contacts: copper alloy, 50 microinches gold over nickel plating
- Ochito contacts
  - Inner and outer contacts: copper alloy, 50 microinches gold over nickel plating
  - Insulators: high-grade rigid thermoplastic
  - Spline: nickel-plated copper alloy (Ochito White), polyimide (Ochito Blue and Red)
- Hardware: 300 series SST, passivated

**Table 1 Hardware Option**

- **N** No Jackpost
  - Connector supplied with blind tapped holes
- **P** Jackposts
  - Non-removable female jackpost. 8-32 UNC-2B thread.
- **R1 - R6** Rear Panel Jackposts
  - For rear panel mounting. 8-32 UNC-2B thread.

**Table 2 Insert Arrangements**

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.

- 1 Quadrax
  - A-1P1
  - A-1G1*
- 1 Quadrax, 2 #23
  - A-3P1
- 2 Quadrax
  - B-2P2
  - B-2G2*
- 2 Quadrax, 4 #23
  - B-6P2
- 3 Quadrax
  - C-3P3
  - C-3G3*
- 3 Quadrax, 6 #23
  - C-9P3
- 4 Quadrax
  - D-4P4
  - D-4G4*
- 4 Quadrax, 8 #23
  - D-12P4
- 5 Quadrax
  - E-5P5
  - E-5G5*
- 5 Quadrax, 10 #23
  - E-15P5
- 9 Quadrax
  - F-9P9
  - F-9G9*
- 9 Quadrax, 22 #23
  - F-31P9

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SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-018S Quadrax PCB Plug Connectors
Epoxy-Sealed Straight PC Tail Quadrax Contacts

### 792-018S Dimensions

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>A Max</th>
<th>B Basic</th>
<th>C Max</th>
<th>D Max</th>
<th>±0.002 (0.05)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>mm.</td>
<td>In.</td>
<td>mm.</td>
<td>In.</td>
</tr>
<tr>
<td>A</td>
<td>1.455</td>
<td>36.96</td>
<td>1.075</td>
<td>27.31</td>
<td>.615</td>
</tr>
<tr>
<td>B</td>
<td>1.830</td>
<td>46.48</td>
<td>1.450</td>
<td>36.83</td>
<td>.990</td>
</tr>
<tr>
<td>C</td>
<td>2.205</td>
<td>56.01</td>
<td>1.825</td>
<td>46.36</td>
<td>1.365</td>
</tr>
<tr>
<td>D</td>
<td>2.580</td>
<td>65.53</td>
<td>2.200</td>
<td>55.88</td>
<td>1.740</td>
</tr>
<tr>
<td>E</td>
<td>2.955</td>
<td>75.06</td>
<td>2.575</td>
<td>65.41</td>
<td>2.115</td>
</tr>
<tr>
<td>F</td>
<td>2.955</td>
<td>75.06</td>
<td>2.575</td>
<td>65.41</td>
<td>2.115</td>
</tr>
</tbody>
</table>

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