SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-020S Quadrax PCB Plug Connectors, Panel Mount
Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

**PCB Quadrax contacts.** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-020S connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Fluorosilicone O-ring provides water-tight panel seal. Scoop-proof interface for problem-free service. Military-grade performance and construction. Contacts are sealed with epoxy and are non-removeable.

### How To Order

<table>
<thead>
<tr>
<th>Sample P/N</th>
<th>792-020S</th>
<th>M</th>
<th>G</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
<td>792-020S = Panel Plug, PC Tail 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>
</tbody>
</table>
| **Shell Finish** | M = Electroless Nickel  
| | MT = Nickel-PTFE  
| | ZR = Black Zinc-Nickel |
| **Mating Hardware** | N = No hardware  
| | P = Jackpost  
| | G = Male guide pin |
| **O-ring Option** | N = No O-ring  
| | F = Fluorosilicone O-ring (non-conductive)  
| | C = Conductive fluorosilicone O-ring  
| | S = Metal EMI panel spring (non-environmental) |

### Technical Data

#### Specifications
- **Operating temperature:** -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts:** 1.5A
- **Voltage rating (DWV):** 750 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
- **Quadrax contacts:** copper alloy, 50 microinches gold over nickel plating, Insulators: high-grade rigid thermoplastic
- **Hardware:** 300 series SST, passivated
- **Potting compound:** epoxy

### Table 1 Mating Hardware

| **N** | No Hardware  
| **P** | Jackposts  
| **G** | Guide Pins  
| | Blind tapped holes  
| | Non-removable 8-32 UNC-2B thread  
| | Non-removable |

### 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.
# SERIES 792
High-Speed Ultraminiature Rectangular Connectors

## 792-020S Quadrax PCB Plug Connectors, Panel Mount
Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

### 792-020S Dimensions

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>A Max</th>
<th>B Basic</th>
<th>C Max</th>
<th>D Basic</th>
<th>E ±.002 (0.05)</th>
<th>F Max</th>
<th>G Max</th>
<th>H Max</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
<td>In. mm.</td>
</tr>
<tr>
<td>A</td>
<td>2.220 56.39</td>
<td>1.075 27.31</td>
<td>.615 15.62</td>
<td>1.699 43.15</td>
<td>.725 18.42</td>
<td>.460 11.68</td>
<td>1.310 33.27</td>
<td>1.984 50.39</td>
</tr>
<tr>
<td>B</td>
<td>2.595 65.91</td>
<td>1.450 36.83</td>
<td>.990 25.15</td>
<td>2.074 52.68</td>
<td>1.100 27.94</td>
<td>.835 21.21</td>
<td>1.685 42.80</td>
<td>2.359 55.92</td>
</tr>
<tr>
<td>C</td>
<td>2.970 75.44</td>
<td>1.825 46.36</td>
<td>1.365 34.67</td>
<td>2.449 62.20</td>
<td>1.475 37.47</td>
<td>1.210 30.73</td>
<td>2.060 52.32</td>
<td>2.734 69.44</td>
</tr>
<tr>
<td>D</td>
<td>3.345 83.96</td>
<td>2.200 55.88</td>
<td>1.740 44.20</td>
<td>2.824 71.73</td>
<td>1.850 46.99</td>
<td>1.585 40.26</td>
<td>2.435 61.85</td>
<td>3.109 78.97</td>
</tr>
<tr>
<td>E</td>
<td>3.720 94.49</td>
<td>2.575 65.41</td>
<td>2.115 53.72</td>
<td>3.199 81.25</td>
<td>2.225 56.52</td>
<td>1.960 49.78</td>
<td>2.810 71.37</td>
<td>3.484 88.49</td>
</tr>
<tr>
<td>F</td>
<td>3.720 94.49</td>
<td>2.575 65.41</td>
<td>2.115 53.72</td>
<td>3.199 81.25</td>
<td>2.225 56.52</td>
<td>1.960 49.78</td>
<td>2.810 71.37</td>
<td>3.484 88.49</td>
</tr>
</tbody>
</table>

### Diagrams
- Quadrax Contact Orientation from Mating Face of Connector
- Panel Cutout
- Shell Size A-E: 9.25 (23.50) MAX
- Shell Size F: 1.300 (33.02) MAX
- Panel Cutout
- Shell Size A-E: .513 (13.03) SIZE F .888 (22.56) TYP
- Panel Cutout
- Shell Size A-E: .575 (14.61) SIZE F .960 (24.38) MAX

Dimensions in Inches (millimeters) are subject to change without notice.
SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-020S QuadraX PCB Plug Connectors, Panel Mount
Epoxy-Sealed Straight PC Tail QuadraX Contacts, O-ring Flange

792-020S Printed Circuit Board Layouts

A-1P1, A-1G1

B-2P2, B-2G2

C-3P3, C-3G3

C-9P3

D-4P4, D-4G4

D-12P4

E-15P5

E-5P5, E-5G5

F-9P9, F-9G9

F-31P9

DETAIL B
QUADRAX SOCKET CONTACT COMPONENT SIDE OF BOARD

Dimensions in Inches (millimeters) are subject to change without notice.