

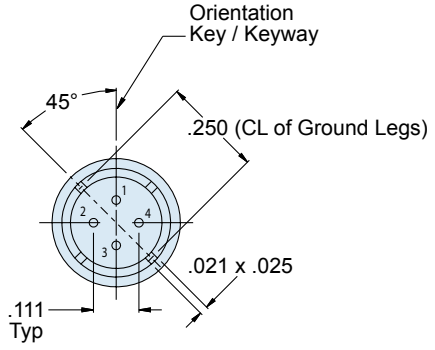
**APPLICATION NOTES**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                        |
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| <ol style="list-style-type: none"> <li>1. Assembly identified with Glenair's, part number and date code</li> <li>2. Insert arrangements IAW MIL-STD-1560 and Figure I</li> <li>3. Glenair 257-455 receptacle connector is designed to mate with any QPL manufacturers MIL-C-38999 series III plug connector having the same insert arrangement, polarization and the same quadrax interface dimensions shown.</li> <li>4. PC contacts supplied with connector (installed) and are not sold separately.</li> </ol> | <ol style="list-style-type: none"> <li>5. Material/finish:<br/>Shell assembly, jam nut, lock ring—Al alloy/see Table II<br/>Contacts—copper alloy/gold plate<br/>Bayonet pins—CRES/passivate<br/>O-rings, interfacial &amp; peripheral seals—silicone/N.A.<br/>Insulators—high grade rigid dielectric/ N.A.</li> <li>6. Metric Dimensions (mm) are indicated in parentheses</li> </ol> |
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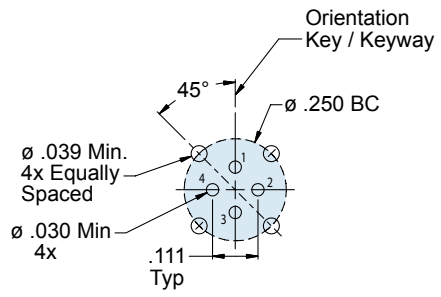
**257-455**  
**Box Mount Quadrax Connector**  
 With PC Tails • MIL-DTL-38999 Series III Type



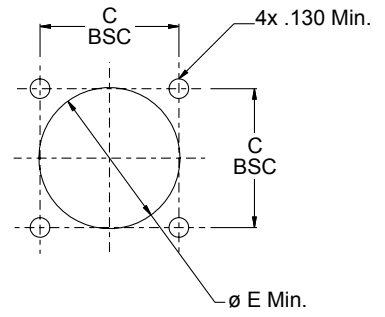
Environmental  
Connectors



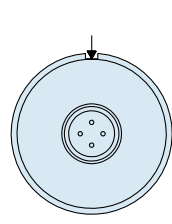
Rear View of Differential Quadrax



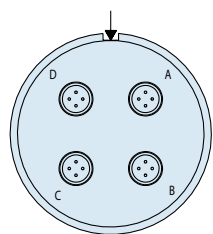
Recommended PCB Layout



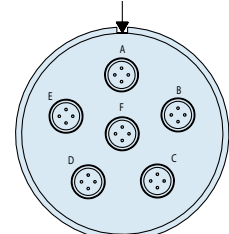
Back Panel Mounting



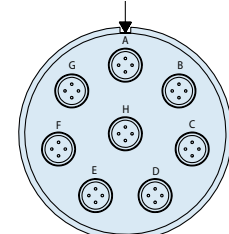
Arrangement 09-5



Arrangement 21-75

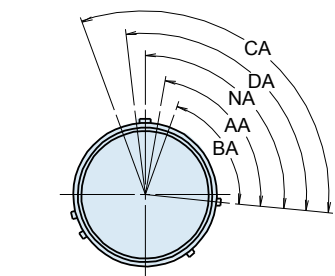


Arrangement 23-06



Arrangement 25-08

See Quadrax Contact Information on D-24



**Figure 1**  
 Master Keyway Position  
 Face View Shown  
 Insert Arrangement Does  
 Not Rotate With Master Keyway

| TABLE I    |                      |                |        |        |          |
|------------|----------------------|----------------|--------|--------|----------|
| Shell Size | A Thread             | B Sq.          | C Bsc. | D Bsc. | Ø E Min. |
| 09         | .6250-.1P-.3L-TS-2A  | 1.031<br>1.007 | .719   | .594   | .656     |
| 21         | 1.3750-.1P-.3L-TS-2A | 1.575<br>1.545 | 1.250  | 1.221  | 1.421    |
| 23         | 1.5000-.1P-.3L-TS-2A | 1.701<br>1.677 | 1.375  | 1.360  | 1.546    |
| 25         | 1.6250-.1P-.3L-TS-2A | 1.823<br>1.799 | 1.500  | 1.475  | 1.672    |

**D**