These “aluminum compatible” connectors utilize special construction features which facilitate reliable hermetic performance in rigorous thermal cyclic environments.

The Solderable connectors utilize high expansion materials as well as unique interface design which in combination reduces solder strain by a minimum of 90%. This low strain assures a long reliable cyclic life for the solder joints.

In the weldable case the body is constructed of a material with matching CTE to the host housing essentially eliminating strain in the weld.

For solderable micro-miniature connectors, see pages 2 and 3.

For weldable micro-miniature connectors, contact SHP.
ALUMINUM COMPATIBLE
SOLDERABLE

Type: HMMHE per MIL-DTL-28748/7
(Mates with MIL-DTL-28748/8)
No. of Contacts: 5, 7, 9, 11, 14, 20, 26, 29, 34, 44

DESCRIPTION
This hermetic micro-miniature connector series is designed specifically for use in aluminum housings for severe military temperature environments. Connectors in this series provide compatibility with plugs per MIL-DTL-28748/8. Unlike other connectors made of various steels, these are made of a higher-expansion material which possesses a coefficient of thermal expansion close to that of aluminum. This feature, coupled with a unique geometry which facilitates optimum solder joints and insures reliable hermeticity of the installed connector.

SPECIFICATION
Body - Brass
Insulation - Glass
Contacts - Steel
Plating - 50 microinches minimum GOLD per MIL-G-45204, Type III, Grade A over 200-300 microinches Electroless NICKEL per MIL-C-26074.
Contact Diameter - .030
Mounting Hardware - Stainless Steel
Leak Rate - Less than 1 X 10^-8 cc/sec @ 1atm (He)
Temperature - -65°C to +200°C
Contact Rating - 3 AMPS
Voltage Breakdown - 500 VAC

NOTE: For part number configuration, see page 3.

All dimensions are inches.
### HERMETIC MICRO-MINIATURE CONNECTORS

<table>
<thead>
<tr>
<th>TERMINATION/CONFIGURATION CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uniform</strong></td>
</tr>
<tr>
<td>2 &amp; 3 Rows</td>
</tr>
<tr>
<td><strong>Staggered</strong></td>
</tr>
<tr>
<td>2 Rows</td>
</tr>
<tr>
<td>3 Rows</td>
</tr>
<tr>
<td>STANDARD PIN LENGTHS ±.010</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>.098</th>
<th>.158</th>
<th>.218</th>
<th>.098, .158</th>
<th>.158, .218</th>
<th>.098, .158, .158</th>
<th>.098, .158, .218</th>
<th>.158, .218, .218</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Cut</td>
<td>110</td>
<td>120</td>
<td>130</td>
<td>111</td>
<td>113</td>
<td>115</td>
<td>117</td>
<td>119</td>
</tr>
<tr>
<td>Flattened</td>
<td>210</td>
<td>220</td>
<td>230</td>
<td>211</td>
<td>213</td>
<td>215</td>
<td>217</td>
<td>219</td>
</tr>
<tr>
<td>Flat &amp; Pierce</td>
<td>310</td>
<td>320</td>
<td>330</td>
<td>311</td>
<td>313</td>
<td>315</td>
<td>317</td>
<td>319</td>
</tr>
</tbody>
</table>

Example Part No: HMMHE-14P-215

### PART NUMBER

- **SERIES**: HMMHE-xP-xxx(R)
- **NO. OF CONTACTS**: 5, 7, 9, 11, 14, 20, 26, 29, 34, 44
- **TERMINATION/CONFIGURATION CODE**: See data above

Notes:
1. Other lead lengths available.
2. See Bulletin 240 for solder preforms.
4. Contact SHP for outline drawing.

All dimensions are inches.