SHP is unmatched in knowledge and experience in custom hermetic packaging. We offer the broadest array of hermetic feedthru devices in the industry for use in various packaging materials. With our proven design capability, combined with extensive experience in the RF and microwave packaging fields, we provide valuable, efficient guidance and support to all of our customers on all levels. Contact us today for free consulting on any design challenge you may have.

### CUSTOM HERMETIC HOUSINGS

#### HOUSING MATERIALS

<table>
<thead>
<tr>
<th>Material</th>
<th>Glassed</th>
<th>Soldered</th>
<th>Welded</th>
<th>Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Steels</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Stainless Steels</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Iron Nickel Alloys</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>CE-Alloys</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Titanium</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Copper</td>
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<td>X</td>
<td>-</td>
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</tr>
<tr>
<td>Brass</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### CONSTRUCTION METHODS

- Glassed Soldered Welded Combination

#### FINISHES

- Gold per MIL-G-45204
- Nickel per MIL-C-26074
- Nickel per QQ-N-290
- Chemical conversion coat per MIL-C-5541, Class 3
- Other plating available

#### FEEDTHRU DEVICES

- RF
- DC
- Capacitors
- Headers
- Connectors

#### SOLDERS

(Per IPC/EIA J-STD-006)

- Sn62
- Sn63
- Sn96
- Sb5

#### SPECIFICATIONS

- Leak rate up to $1 \times 10^{-8}$ cc/sec @ 1 atm (He) per MIL-STD-202, MIL-STD-883
- Thermal shock per MIL-STD-202
- Heat resistance to 200° C
- Solderability per MIL-STD-202, MIL-STD-883
- Lead integrity per MIL-STD-883

#### SERVICE OPTIONS

We can help you in many ways!

- We will optimize your design for our feedthru devices
- We will provide optional approaches.
  - Turnkey housing
  - Parts and assembly of your supplied plated housing
  - Parts, plating and assembly of your supplied housing

We thoroughly review fabrication/assembly for all possible risks before order is placed, assuring the success of the manufacture of your housing.