Our SMP connectors are manufactured with unique processes and controls to assure compliance with all specified properties. Particular attention has been given to plating control to assure required plating thickness. Minimum plating on pins is guaranteed for wire and ribbon bonding. Limited plating on housing is assured to prevent gold embrittlement when soldering with Sn/Pb solders and also to preserve dimensional precision.

**SMP SPECIFICATION**

- **Body Material**: See Specific Part
- **Glass Seal**: Coming 7070
- **Pin Material**: Iron Nickel Alloy
- **Standard Plating**: 50 microinches minimum GOLD per MIL-G-45204, Type III Grade A over 100-200 microinches Electroless NICKEL per MIL-C-26074 on body and pin. Other plating available.
- **Frequency**: Up to 40 GHz
- **Pin Launch Concentricity**: .004 TIR
- **Impedance**: 50 Ohm nominal
- **Engage/Disengage Force**: Per DSCC 94007 & DSCC 94008
- **Connector Interface**: Per MIL-STD-348

ISO 9001:2008 Certified
SMP CONNECTORS

COMMON PUSH-ON

For superior performance when used in place of commonly available competitive devices. Consult SHP for application guidance.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>O.D.</th>
<th>BL1</th>
<th>BL2</th>
<th>BODY MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPO-1440x-xxxR-40</td>
<td>.145</td>
<td>.080</td>
<td>.040</td>
<td>ASTM-F15 (KOVAR)</td>
</tr>
<tr>
<td>COMPO-1460x-xxxR-40</td>
<td>.145</td>
<td>.080</td>
<td>.060</td>
<td></td>
</tr>
<tr>
<td>COMPO-1640x-xxxR-40</td>
<td>.164</td>
<td>.120</td>
<td>.040</td>
<td></td>
</tr>
<tr>
<td>COMPO-1660x-xxxR-40</td>
<td>.164</td>
<td>.120</td>
<td>.060</td>
<td></td>
</tr>
</tbody>
</table>

Example Part No: COMPO-1460F-055-40

- Indicate Detent (see note 1)
- L2 (Indicate Pin Length in thousandths)
- Radius Optional
- Standard Plating
  (Contact SHP for other plating options)

NOTES: (1) Insert: F - Full Detent, L - Limited Detent, S - Smooth Bore

All dimensions are inches.
SMP CONNECTORS

ROBUST ALUMINUM COMPATIBLE

For robust performance and ease of assembly where space allows. Utilizes soft solders.

APPLICATION DATA

**PART NO.** | **BL** | **BODY MATERIAL**
---|---|---
**RACPO-1700x-xxxR-40** | .180 | ALLOY 48
**RACPO-1750x-xxxR-40** | .160 |

- Indicate detent (see note 1)
- L2 (Indicate pin length in thousandths)
- Radius optional
- Standard plating (Contact SHP for other plating options)

Example Part No: RACPO-1700L-065-40

**SERIES** | **PROTRUSION** | **X ±004** | **Y ±002** | **Z ±002**
---|---|---|---|---
**FLUSH** | 0 | .185 | .050 |
**ANY SELECT** | .185-X Note 4 |
**MAX** | .120 | .065 | .015 |

**SERIES** | **PROTRUSION** | **X ±004** | **Y ±002** | **Z ±002**
---|---|---|---|---
**FLUSH** | 0 | .165 | .050 |
**ANY SELECT** | .165-X Note 4 |
**MAX** | .100 | .065 | .020 |

**NOTES:**
1. Insert: F - Full Detent, L - Limited Detent, S - Smooth Bore
2. Customer specified.
3. See bulletin 205 for solder preforms.
4. Contact SHP for recommendations.

All dimensions are inches.
SMP CONNECTORS

ROBUST KOVAR COMPATIBLE
Utilizes 80Au/20Sn solder only

PART NO.       BODY MATERIAL
RKCP 1600x-xxxR-40   ALLOY 48

-Indicate Detent (see note 1)
-L2 (Indicate pin length in thousandths)
-Radius Optional
-Standard Plating
(Contact SHP for other plating options)

Example Part No: RKCP 1600F-050-40

APPLICATION DATA

NOTES: (1) Insert: F - Full Detent, L - Limited Detent, or S - Smooth Bore
(2) Customer specified.
(3) L2 Pin length = X - .025 + desired internal protrusion.
(4) Contact SHP for solder preforms.

All dimensions are inches.