Our SMPM aluminum compatible RF connectors are manufactured to MIL-STD-348 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 and SnPb based solders and also to preserve dimensional precision.

**SMPM SPECIFICATION**

- **Body Material**: Alloy 48
- **Glass Seal**: Corning 7070
- **Pin Material**: Iron Nickel Cobalt Alloy (ASTM F 15)
- **Standard Plating**: 50 microinches minimum GOLD per MIL-G-45204, Type III, Grade A on body & pin over 100-200 microinches Electroless NICKEL per MIL-C-26074. 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
**SMPM CONNECTORS**

**ROBUST ALUMINUM COMPATIBLE**

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

**PART NO.**
- **RACMPO-1300x-xxxR-40**
  - Indicate Detent (see note 1)
  - Indicate Pin Length in thousandths
  - Radius optional
  - Standard Plating (Contact SHP for other plating options)

**BODY MATERIAL**
- **ALLOY 48**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PROTRUSION</th>
<th>X ±002</th>
<th>Y ±002</th>
<th>Z(4) ±002</th>
<th>D1 ±001</th>
<th>D2 ±001</th>
<th>D3 ±002</th>
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<td>.076</td>
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<td>.128</td>
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<td>MAX</td>
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<td>.060</td>
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<td>CONTACT SHP</td>
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<td>.142</td>
<td>.178</td>
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</table>

**NOTES:**
1. Insert: F - Full Detent or S - Smooth Bore
2. Thru hole and compensation c’bore are customer specified
3. See bulletin 205 for solder preforms.
4. Depending on desired interface/mate requirements adjustment may be required. Please call for assistance.

All dimensions are inches.
SMPM 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>
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<th>BODY MATERIAL</th>
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<tr>
<td>COMMPO-1350x-xxxR-40</td>
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<td>ASTM-F15 (KOVAR)</td>
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<td>COMMPO-1450x-xxxR-40</td>
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</tbody>
</table>

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

Example Part No: COMMPO-1450F-055-40

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

All dimensions are inches.