Carlisle Interconnect Technologies (CarlisleIT) designed the SSMP® connector product line to further improve package density of RF/Microwave systems. The SSMP® interface is about 30% smaller than its predecessor, the SMP connector. Now an industry standard (as outlined in the MIL-STD-348 document) for RF/Microwave applications, the SSMP® interface has enabled design engineers to increase performance and complexity of their designs while simultaneously improving upon their form factor.

The SSMP® interconnect system relies on a floating female-to-female adapter, commonly referred to as a “bullet”, to enable stacking of boards equipped with an SSMP® male PCB connector. The durable construction and ability to tolerate radial and axial misalignment allows for a blindmate interconnect solution that can withstand multiple engagement/ disengagement cycles without degradation in electrical performance.

Due to its high frequency performance along with a blindmate configuration, the SSMP® connector is a standard interface in optical networking components, specifically 40G and 100G Modulator and Driver amplifiers.

**FEATURES**

- Frequency Range: DC - 65 GHz
- 50 Ω Impedance; Blindmateable configuration
- MIL-PRF-39012 compliant
- Ability to withstand Radial/Axial Misalignment
- Board-mount, Field-replaceable, Bullets, Hermetic and Cable Connector configurations
- Custom Connectors Available

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Impedance</td>
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</tr>
<tr>
<td>Frequency range</td>
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<tr>
<td>VSWR</td>
<td>1.02 + 0.12 F (GHz)</td>
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<tr>
<td>Insertion Loss</td>
<td>0.04 x √F (GHz)</td>
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<tr>
<td>DFV</td>
<td>325 Vrms</td>
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<tr>
<td>Insulation Resistance</td>
<td>5000 MΩ (min)</td>
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<td>RF High Pot</td>
<td>190 Vrms @ 5 MHz</td>
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<tr>
<td>Detent</td>
<td>6.5 lbs (max)</td>
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<tr>
<td>Smooth Bore</td>
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<td>Axial Misalignment</td>
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<td>0.000/0.010 inches</td>
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<td>Thermal Shock</td>
<td>MIL-STD-202, Method 107, Cond. C</td>
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<tr>
<td>Moisture Resistance</td>
<td>MIL-STD-202, Method 106, except step 7b</td>
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<tr>
<td>Vibration</td>
<td>MIL-STD-202, Method 204, Cond. D</td>
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40G Optical Modulator with SSMP® Connector
### CABLE CONNECTORS - FOR FLEXIBLE CABLES

**SSMP Male Straight Panel Mount Connector for 0.086” Flexible Cable / P156**

- **Dimensions:**
  - Connector:
    - Width: .132
    - Height: .146
  - Recommended Mounting Panel:
    - Width: .142
    - Height: .156

**SSMP Female Right Angle for 0.047” Semi-Rigid and Semi-Flex Cable / P148-1CC**

- **Dimensions:**
  - Connector:
    - Width: .084
    - Height: .095
  - Recommended Mounting Panel:
    - Width: .088
    - Height: .095

### SSMP Male Straight Panel Mount Connector for 0.086” Flexible Cable / P156

<table>
<thead>
<tr>
<th>P/N</th>
<th>Ø A (A)</th>
<th>B</th>
<th>C</th>
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<tr>
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<td>.087</td>
<td>.250</td>
<td>.208</td>
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<td>151</td>
<td>.087</td>
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<tr>
<td>152</td>
<td>.087 L/L</td>
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<td>.142</td>
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### SSMP Female Right Angle for 0.047” Semi-Rigid and Semi-Flex Cable / P148-1CC

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<tr>
<td>142</td>
<td>.085</td>
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<td>143</td>
<td>.087 L/L</td>
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### PC8 CONNECTORS - SURFACE MOUNT

**SSMP Male Straight Surface Mount / P311**

- **Dimensions:**
  - Connector:
    - Width: .145
    - Height: .160
  - Recommended Mounting Panel:
    - Width: .156
    - Height: .170

**SSMP Female Snap-In Panel Mount Connector for Semi-Rigid and Semi-Flex Cables / P172-1CC**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Ø A (A)</th>
<th>INTERFACE</th>
<th>FIGURE</th>
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<td>.088</td>
<td>NON-DETENT1</td>
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<td>174</td>
<td>.085</td>
<td>DETENT 3</td>
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<td>.088</td>
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<td>176</td>
<td>.088</td>
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<td>177</td>
<td>.088</td>
<td>CATCHERS MITT 4</td>
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**SSMP Male Snap in Panel Mount Connector for Semi-Rigid and Semi-Flex Cable / P155**

- **Dimensions:**
  - Connector:
    - Width: .144
    - Height: .150
  - Recommended Mounting Panel:
    - Width: .144
    - Height: .150

**SSMP Female Snap-In Panel Mount Connector for Semi-Rigid and Semi-Flex Cables / P105**

- **Dimensions:**
  - Connector:
    - Width: .144
    - Height: .142
  - Recommended Mounting Panel:
    - Width: .133
    - Height: .142

**SSMP Female Straight Connector for Semi-Rigid and Semi-Flex Cable / P107**

- **Dimensions:**
  - Connector:
    - Width: .086
    - Height: .095
  - Recommended Mounting Panel:
    - Width: .086
    - Height: .095

### CABLE CONNECTORS - FOR SEMI-RIGID & SEMI-FLEX CABLES

**SSMP Female Right Angle for 0.047” Semi-Rigid and Semi-Flex Cable / P148-1CC**

<table>
<thead>
<tr>
<th>P/N</th>
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</tr>
<tr>
<td>143</td>
<td>.087 L/L</td>
<td>OEM CABLE</td>
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</tbody>
</table>

**SSMP Female Straight Connector for Semi-Rigid and Semi-Flex Cable / P107**

- **Dimensions:**
  - Connector:
    - Width: .115
    - Height: .120
  - Recommended Mounting Panel:
    - Width: .115
    - Height: .120

### Mounting Hole Pattern

- Dimensions shown are for Rogers 4350 PCB material. These dimensions may vary depending on PCB material used.

<table>
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<th>P/N</th>
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<td>327</td>
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<td>4</td>
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**Mounting Panel Hole Pattern**

- Dimensions shown are for Rogers 4350 PCB material. These dimensions may vary depending on PCB material used.

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<thead>
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<th>P/N</th>
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<td>427</td>
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</table>

**Recommended Mounting Panel**

- Width: .156
- Height: .170
- Scale: None
SSMP® Configurations

PCB CONNECTORS - THROUGH HOLE

SSMP Male Right Angle PCB Mount / P303

PCB CONNECTORS - EDGE MOUNT

SSMP Male Straight Edge Mount Connector / P319

PANEL MOUNT - THREAD-IN

SSMP Male Thread-In Panel Mount / P121

PANEL MOUNT - FLANGE MOUNT

SSMP Male 2-Hole Flange Mount / P203

SHROUDS - PRESS-IN

SSMP Male Press-In Shroud / P205

SHROUDS - THREAD-IN

SSMP Male Thread-In Shroud / P202

HERMECTICS

SSMP Male Straight Hermetic Termination / P122

Recommended Mounting Hole Pattern

Recommended PCB Cutout Scale: A/1

Recommended Mounting Hole

Recommended Mounting Hole Pattern

Recommended PCB Cutout Scale: A/1

Recommended Mounting Hole

Recommended Mounting Hole Pattern

Recommended PCB Cutout Scale: A/1

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Recommended Mounting Hole

Recommended Mounting Hole Pattern

Recommended PCB Cutout Scale: A/1

Recommended Mounting Hole
SSMP® Configurations

**HERMETICS (CONT.)**

SSMP Female to SSMP Female Bullet / P101

SSMP Female to SSMP Female Spring Loaded Bullet / P138

SSMP Female Short / P170-1CC

SSMP Male Short / P180

P/N | FIGURE | OTHER
--- | --- | ---
1CC | 1 | 4-SLOT BODY
2CC | 2 | 6-SLOT BODY

**LOADS**

SSMP Female 50 Ω Termination / P109-1CC

SSMP Male 50 Ω Termination / P110

**OPENS**

SSMP Female Open / P171-1CC

SSMP Male with Detent, Straight Solder-In Hermetic / P154

**BULLETS / ADAPTERS**

SSMP Female to SSMP Female Bullet / P101

SSMP Female to SSMP Female Spring Loaded Bullet / P138
## MATERIALS & FINISH

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## ORDERING INFORMATION

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<th>Configuration</th>
<th>Part Number* *</th>
<th>Description</th>
<th>Options</th>
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<tbody>
<tr>
<td>Cable Connectors</td>
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</tr>
<tr>
<td>For Flexible Cables</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P106</td>
<td>SSMP (male)</td>
<td>straight panel mount connector for 0.086&quot; flexible cable</td>
<td>See table for options</td>
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<td>P107</td>
<td>SSMP (female)</td>
<td>straight connector for semi-rigid and Semi-Flex cables</td>
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<tr>
<td>P105</td>
<td>SSMP (female)</td>
<td>right angle for semi-rigid/Semi-Flex cables</td>
<td>See respective tables for options (see figure)</td>
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<td>SSMP (female)</td>
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<td>Through Hole</td>
<td>P903</td>
<td>SSMP (male) right angle PCB mount</td>
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<td>Surface Mount</td>
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<td>Flange Mount</td>
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<td>SSMP (male) 2-hole flange mount</td>
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<td>Thread-In</td>
<td>P121</td>
<td>SSMP (male) thread-in panel mount</td>
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<td>SSMP (male) thread-in shroud</td>
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<td>Press-In</td>
<td>P205</td>
<td>SSMP (male) press-in shroud</td>
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<td>P122</td>
<td>SSMP (male)</td>
<td>straight hermetic termination</td>
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<td>P154</td>
<td>SSMP (male)</td>
<td>with detent, straight solder-in hermetic</td>
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<td>Hermetics</td>
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<td>SSMP (female)</td>
<td>50 $\Omega$ termination</td>
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* Part numbers have a suffix based on the option selected. Please refer to outline drawings for more information

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