

SMP-J-B-GF-ST-1450



SMP-J-C-GF-RA-CA7

SMP-PF-P-HH-ST-EM3



SMP-PF-P-GF-ST-TH2



SMP-J-C-GF-ST-CS5



SMP-J-B-GF-ST-0645

**SMP SERIES**

# 50 Ω SMP JACKS/PLUGS & ADAPTOR

**SMP-PF, SMP-PL, SMP-PS, SMP-PC**  
Mate with:  
SMP-B Bullet Adaptor

**Cable Mates:**  
RF405, RF25S

**SPECIFICATIONS**

For complete specifications see  
www.samtec.com?SMP-TH,  
www.samtec.com?SMP-EM,  
www.samtec.com?SMP-B or  
www.samtec.com?SMP-CA

**Shell Material:**  
Au plated Brass (-TH2, -EM3)  
Au plated BeCu (-J-B, -J-C)

**Contact Material:**  
Brass (-TH2, -EM3)  
BeCu (-CA)

**Insulator Material:**  
PTFE

**Impedance:**  
50 Ω

**Frequency Range:**  
DC to 40 GHz,  
DC to 20 GHz (25 AWG)

**Working Voltage:**  
335 Vrms min

**Dielectric Withstanding:**  
500 Vrms min

**Engagement Force:**  
-PF: 15 lbs. max  
-PL: 10 lbs. max  
-PS & -PC: 2 lbs. max

**Disengagement Force:**  
-PF: 2 lbs. min  
-PL: 2 lbs. min  
-PS & -PC: 0.5 lbs. min

**Operating Temperature:**  
-65 °C to +165 °C

**RoHS Compliant:**  
Yes

**PROCESSING**

**Lead-Free Solderable:**  
Yes

**ALTERNATIVE SOLUTIONS**

The SMP Series is an alternative to the Corning Gilbert GPO Series. The SMPM Series is in development.

**Note:**  
While optimized for 50 Ω applications, this connector can also perform well in certain 75 Ω applications. Contact RFGGroup@samtec.com for further information.

SMP	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION						
-PF = Plug, Full Detent	-PL = Plug, Limited Detent	-PS = Plug, Smooth Bore	-PC = Plug, Catcher's Mitt	-GF = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact (-TH2 only)	-ST = Straight	-TH2 = Through-hole					
							-EM3 = Drop-in Edge Mount (Not available with -PC)				
<p>-PF/-PL/-PS-TH2</p>			<p>-PC-TH2</p>			<p>-EM3</p>					
<p><b>EXTRACTION TOOL</b></p> <ul style="list-style-type: none"> <li>CAT-EX-SMP-01 Contact Samtec</li> </ul>											
<table border="1"> <thead> <tr> <th>LENGTH</th> <th>BOARD SPACE</th> </tr> </thead> <tbody> <tr> <td>-0645</td> <td>(9.05) .356</td> </tr> <tr> <td>-1450</td> <td>(17.10) .673</td> </tr> </tbody> </table>						LENGTH	BOARD SPACE	-0645	(9.05) .356	-1450	(17.10) .673
LENGTH	BOARD SPACE										
-0645	(9.05) .356										
-1450	(17.10) .673										

SMP	J	TYPE	PLATING	ORIENTATION	BULLET LENGTH	CABLE END
-B = Bullet Adaptor	-C = Cable End	-GF = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact	-ST = Straight	-RA = Right-angle (Not available with -B)	Leave blank for cable end	Leave blank for bullet type
<p>-0645</p>					<p>-ST-CXX</p>	
<p>-1450</p>					<p>-RA-CXX</p>	
<p><b>-CS5 = MWC-2550-01 25 AWG Microwave Cable</b></p>						

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.