

SMP-J-B-GF-ST-1450



SMP-PF-P-HH-ST-EM3



SMP-J-C-GF-RA-CA7



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](http://www.samtec.com?SMP-TH), [www.samtec.com?SMP-EM](http://www.samtec.com?SMP-EM), [www.samtec.com?SMP-B](http://www.samtec.com?SMP-B) or [www.samtec.com?SMP-CA](http://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 [RFGroup@samtec.com](mailto:RFGroup@samtec.com) for further information.

SMP	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION										
		<b>-P</b> = PCB Mount	<b>-GF</b> = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact (-TH2 only)	<b>-ST</b> = Straight	<b>-TH2</b> = Through-hole										
		<b>-PF</b> = Plug, Full Detent	<b>-HH</b> = 30 μm (0.76 μm) Gold center and outer contact (-EM3)	<table border="1"> <thead> <tr> <th>GENDER</th> <th>A DIA</th> </tr> </thead> <tbody> <tr> <td>-PF</td> <td>(4.19) .165</td> </tr> <tr> <td>-PL</td> <td>(5.99) .236</td> </tr> <tr> <td>-PS</td> <td></td> </tr> <tr> <td>-PC</td> <td></td> </tr> </tbody> </table>	GENDER	A DIA	-PF	(4.19) .165	-PL	(5.99) .236	-PS		-PC		<b>-EM3</b> = Drop-in Edge Mount (Not available with -PC)
GENDER	A DIA														
-PF	(4.19) .165														
-PL	(5.99) .236														
-PS															
-PC															
		<b>-PL</b> = Plug, Limited Detent													
		<b>-PS</b> = Plug, Smooth Bore													
		<b>-PC</b> = Plug, Catcher's Mitt													

  

-PF/-PL/-PS-TH2

-PC-TH2

-EM3

**EXTRACTION TOOL**

- CAT-EX-SMP-01 Contact Samtec

**APPLICATION**

LENGTH	BOARD SPACE
-0645	(9.05) .356
-1450	(17.10) .673

SMP	J	TYPE	PLATING	ORIENTATION	BULLET LENGTH	CABLE END
		<b>-B</b> = Bullet Adaptor	<b>-GF</b> = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact	<b>-ST</b> = Straight	Leave blank for cable end	Leave blank for bullet type
		<b>-C</b> = Cable End	<b>-RA</b> = Right-angle (Not available with -B)		<b>-0645</b> = 6.45 mm (.254")	<b>-CA7</b> = RG 405 (.086" DIA) Semi-flexible Cable
					<b>-1450</b> = 14.50 mm (.571")	<b>-CS5</b> = MWC-2550-01 25 AWG Microwave Cable

  

-0645

-1450

-ST-CXX

-RA-CXX

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.