

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,  
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
		-P = PCB Mount	-GF = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact (-TH2 only)	-ST = Straight	-TH2 = Through-hole
		-PF = Plug, Full Detent	-HH = 30 μm (0.76 μm) Gold center and outer contact (-EM3)		-EM3 = Drop-in Edge Mount (Not available with -PC)
		-PL = Plug, Limited Detent			
		-PS = Plug, Smooth Bore			
		-PC = Plug, Catcher's Mitt			

  

GENDER	A DIA
-PF	(4.19) .165
-PL	(4.19) .165
-PS	(4.19) .165
-PC	(5.99) .236

  
  

**APPLICATION**

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

  

**EXTRACTION TOOL**

- CAT-EX-SMP-01 Contact Samtec

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

  

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.