

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)	<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		-EM3 = Drop-in Edge Mount (Not available with -PC)
GENDER	A DIA														
-PF	(4.19) .165														
-PL	(5.99) .236														
-PS															
-PC															
		-PL = Plug, Limited Detent													
		-PS = Plug, Smooth Bore													
		-PC = 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 = 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

-0645

-1450

-ST-CXX

-RA-CXX

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