

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) -HH = 30 μm (0.76 μm) Gold center and outer contact (-EM3)	-ST = Straight	-TH2 = Through-hole -EM3 = Drop-in Edge Mount (Not available with -PC)										
		-PF = Plug, Full Detent -PL = Plug, Limited Detent -PS = Plug, Smooth Bore -PC = Plug, Catcher's Mitt		<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>(4.19) .165</td> </tr> <tr> <td>-PS</td> <td>(4.19) .165</td> </tr> <tr> <td>-PC</td> <td>(5.99) .236</td> </tr> </tbody> </table>	GENDER	A DIA	-PF	(4.19) .165	-PL	(4.19) .165	-PS	(4.19) .165	-PC	(5.99) .236	
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		<p>(5.78) .228 SQ A DIA (7.09) .279 (4.09) .161</p>	<p>A DIA (2.09) .082 (5.99) .236 SQ</p>	<p>(4.34) .171 (4.43) .174 (4.06) .160 (1.88) .074 (5.08) .200 (2.13) .084</p>	<p>APPLICATION</p> <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				
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			EXTRACTION TOOL • CAT-EX-SMP-01 Contact Samtec												

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 -0645 = 6.45 mm (.254") -1450 = 14.50 mm (.571")	Leave blank for bullet type -CA7 = RG 405 (.086" DIA) Semi-flexible Cable -CS5 = MWC-2550-01 25 AWG Microwave Cable
		<p>(3.40) .134 DIA (6.45) .254 -0645</p>		<p>(3.55) .140 DIA (8.00) .315 -ST-CXX</p>	<p>(7.00) .276 (5.31) .209 (4.36) .172 -RA-CXX</p>	

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

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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.