

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										
<p>-PF = Plug, Full Detent</p> <p>-PL = Plug, Limited Detent</p> <p>-PS = Plug, Smooth Bore</p> <p>-PC = Plug, Catcher's Mitt</p>	<p>-P = PCB Mount</p>	<p>-GF = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact (-TH2 only)</p> <p>-HH = 30 μm (0.76 μm) Gold center and outer contact (-EM3)</p>	<p>-ST = Straight</p>	<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>(5.99) .236</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	(5.99) .236	-PC	(5.99) .236	<p>-TH2 = Through-hole</p> <p>-EM3 = Drop-in Edge Mount (Not available with -PC)</p>
					GENDER	A DIA									
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<p>-PF/-PL/-PS-TH2</p> <p>-PC-TH2</p>															
<p>EXTRACTION TOOL</p> <ul style="list-style-type: none"> CAT-EX-SMP-01 Contact Samtec 			<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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SMP	J	TYPE	PLATING	ORIENTATION	BULLET LENGTH	CABLE END
<p>-B = Bullet Adaptor</p> <p>-C = Cable End</p>	<p>-GF = 10 μm (0.25 μm) Gold center contact, Gold Flash outer contact</p>	<p>-ST = Straight</p> <p>-RA = Right-angle (Not available with -B)</p>	<p>Leave blank for cable end</p> <p>-0645 = 6.45 mm (.254")</p> <p>-1450 = 14.50 mm (.571")</p>	<p>Leave blank for bullet type</p> <p>-CA7 = RG 405 (.086" DIA) Semi-flexible Cable</p> <p>-CS5 = MWC-2550-01 25 AWG Microwave Cable</p>		
					<p>-0645</p> <p>-1450</p>	
<p>-ST-CXX</p> <p>-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.