



SMP SERIES

50Ω SMP JACKS/PLUGS & ADAPTOR

SMP-PF, SMP-PL, SMP-PS, SMP-PC
 Mate with:
 SMP-B Bullet Adaptor

Cable Mates:
 RF405, BE25S, 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:
 50Ω

Frequency Range:
 DC to 40 GHz,
 DC to 20 GHz (25 AWG)

V.S.W.R. (Interface):
 1.15: 1 max to 26.5 GHz,
 1.5: 1 max to 40 GHz

Working Voltage:
 335 Vrms min

Dielectric Withstanding:
 500 Vrms min

Contact Resistance:
 Center Contact: 6mΩ max
 Outer Contact: 2mΩ max

Insulator Resistance:
 5000 MΩ 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. A mini SMP Series, available as an ASO, is an alternative to the Corning Gilbert GPPO Series.

Note: While optimized for 50Ω applications, this connector can also perform well in certain 75Ω applications. Contact RFGroup@samtec.com for further information.

SMP	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
-PF	-PL	-P	-GF	-ST	-TH2
= Plug, Full Detent	= Plug, Limited Detent	= PCB Mount	= 10μ" (0,25 μm) Gold center contact, Gold Flash outer contact (-TH2 only)	= Straight	= Through-hole
-PS	-PC		-HH		-EM3
= Plug, Smooth Bore	= Plug, Catcher's Mitt		= 30μ" (0,76 μm) Gold center and outer contact (-EM3 only)		= Drop-in Edge Mount (N/A with -PC)

APPLICATION	
LENGTH	BOARD SPACE
-0645	(9,05) .356
-1450	(17,10) .673

ALSO AVAILABLE (MOQ Required)

- Other lengths
- Contact Samtec.

SMP	J	TYPE	PLATING	ORIENTATION	BULLET LENGTH	CABLE END
-B	-C		-GF	-ST		
= Bullet Adaptor	= Cable End		= 10μ" (0,25 μm) Gold center contact, Gold Flash outer contact	= Straight	Leave blank for cable end	Leave blank for bullet type
				-RA	-0645	-CA7
				= Right Angle (N/A with -B)	= 6,45 mm (.254")	= RG 405 (.086" DIA) Semi-flexible Cable
					-1450	-CA5
					= 14,50 mm (.571")	= CCA-25M Cable
						-CS5
						= MWC-2550-01 25 AWG Microwave Cable

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