

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-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-CA5

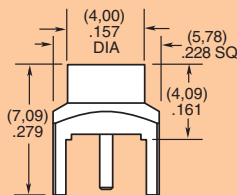
SMP — GENDER — TYPE — PLATING — ORIENTATION — TERMINATION

-PF
= Plug, Full Detent

-PL
= Plug, Limited Detent

-PS
= Plug, Smooth Bore

-PC
= Plug, Catcher's Mitt

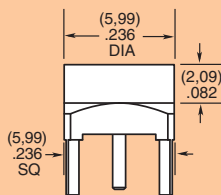


-PF/-PL/-PS-TH2

-P
= PCB Mount

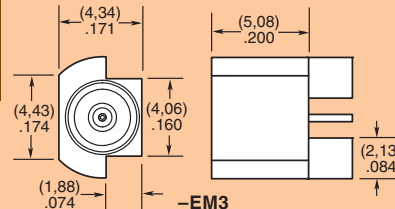
-GF
= 10μ" (0,25 μm)
Gold center contact, Gold Flash outer contact (-TH2 only)

-HH
= 30μ" (0,76 μm)
Gold center and outer contact (-EM3 only)



-PC-TH2

-ST
= Straight



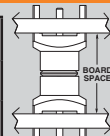
-EM3

-TH2
= Through-hole

-EM3
= Drop-in Edge Mount (N/A with -PC)

APPLICATION

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



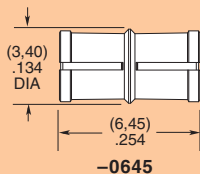
ALSO AVAILABLE (MOQ Required)

- Other lengths
- Contact Samtec.

SMP — J — TYPE — PLATING — ORIENTATION — BULLET LENGTH — CABLE END

-B
= Bullet Adaptor

-C
= Cable End



-0645

-GF
= 10μ" (0,25 μm)
Gold center contact, Gold Flash outer contact

-ST
= Straight

-RA
= Right Angle (N/A with -B)

Leave blank for cable end

-0645
= 6,45 mm (.254")

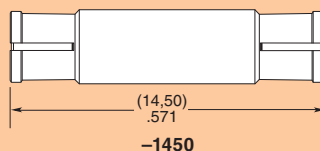
-1450
= 14,50 mm (.571")

Leave blank for bullet type

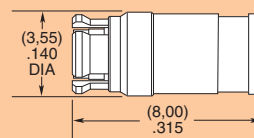
-CA7
= RG 405 (.086" DIA) Semi-flexible Cable

-CA5
= CCA-25M Cable

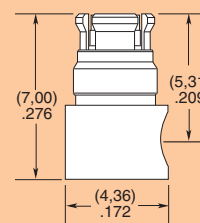
-CS5
= MWC-2550-01 25 AWG Microwave Cable



-1450



-ST-CXX



-RA-CXX

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

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