

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

-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)

-ST

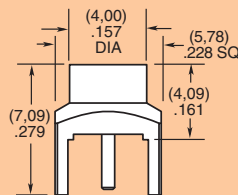
= Straight

-TH2

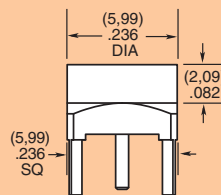
= Through-hole

-EM3

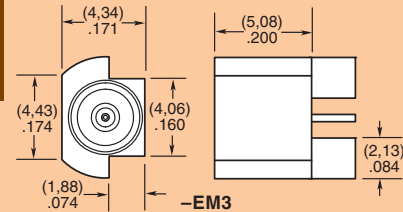
= Drop-in Edge Mount (N/A with -PC)



-PF/-PL/-PS-TH2



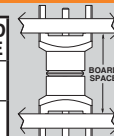
-PC-TH2



-EM3

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

-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

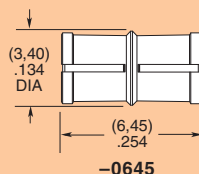
= RG 405 (.086" DIA)
Semi-flexible Cable

-CA5

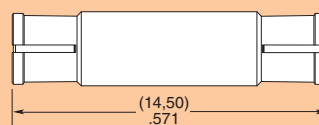
= CCA-25M Cable

-CS5

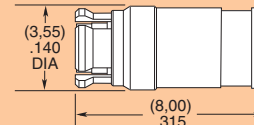
= MWC-2550-01
25 AWG Microwave Cable



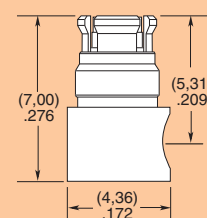
-0645



-1450



-ST-CXX



-RA-CXX

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

WWW.SAMTEC.COM