

## SMP SERIES

# 50Ω SMP JACKS/PLUGS & ADAPTOR

## Mates with:

RF405, BE25M, BE25S,  
RF25M, 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:

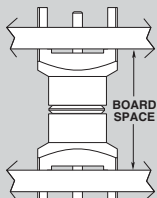
-65°C to +165°C

RoHS Compliant: Yes

## Processing:

Lead-Free Solderable: Yes

## APPLICATION



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

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

\* In Accordance with  
DSCC 06026 (Pending)



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

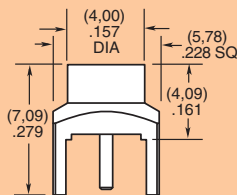
= Plug, Limited Detent

## -PS

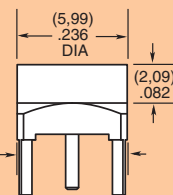
= Plug, Smooth Bore

## -PC

= Plug, Catcher's Mitt



-PF/-PL/-PS-TH2



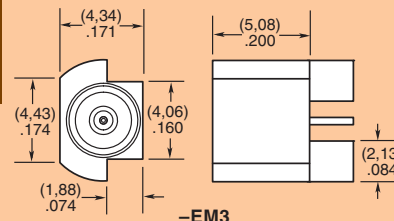
-PC-TH2

## -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)

APPLICATION  
SPECIFIC OPTION

Other lengths available.  
Call Samtec.

## SMP

## J

## TYPE

## PLATING

## ORIENTATION

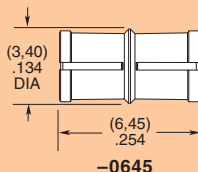
BULLET  
LENGTHCABLE  
END

## -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

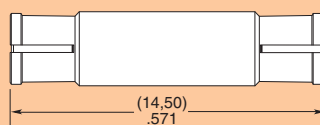
= CCA-405  
Semi-Flexible  
cable  
(24 AWG)

-CA5

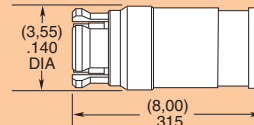
= CCA-25M  
Microwave  
cable  
(25 AWG)

-CS5

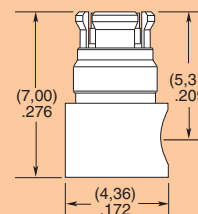
= MWC-2550-01  
cable  
(25 AWG)



-1450



-ST-CXX



-RA-CXX

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

WWW.SAMTEC.COM

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