



SMP-J-B-GF-ST-1450



SMP-PF-P-HH-ST-EM3



SMP-J-C-GF-RA-CA7



SMP-J-C-GF-ST-CS5

SMP-PF-P-GF-ST-TH2



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
RFGroup@samtec.com for
further information.

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

= 10 μm
(0.25 μm)Gold center
contact,
Gold Flash
outer contact
(-TH2 only)

-HH

= 30 μm
(0.76 μm)Gold center
and outer
contact
(-EM3)

-ST

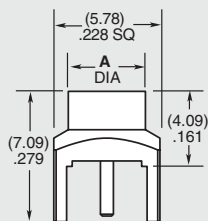
= Straight

GENDER	A DIA
-PF	
-PL	(4.19) .165
-PS	
-PC	(5.99) .236

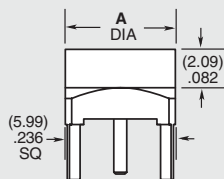
-TH2

= Through-hole

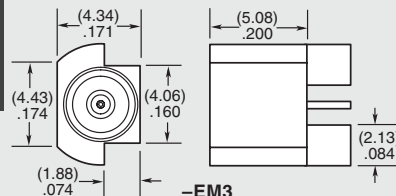
-EM3

= Drop-in
Edge Mount
(Not available
with -PC)

-PF/-PL/-PS-TH2

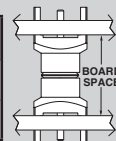


-PC-TH2



APPLICATION

LENGTH	BOARD SPACE
-0645	(9.05) .356
-1450	(17.10) .673



EXTRACTION TOOL

- CAT-EX-SMP-01
Contact Samtec

SMP

J

TYPE

PLATING

ORIENTATION

BULLET LENGTH

CABLE END

-B

= Bullet Adaptor

-C

= Cable End

-GF

= 10 μm
(0.25 μm)Gold center
contact, Gold
Flash outer
contact

-ST

= Straight

-RA

= Right-angle
(Not available
with -B)Leave blank
for cable end

-0645

= 6.45 mm
(.254")

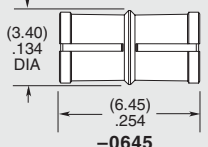
-1450

= 14.50 mm
(.571")Leave blank
for bullet type

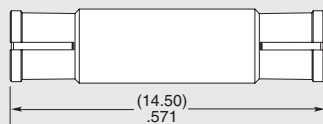
-CA7

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

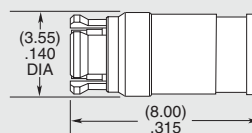
-CS5

= MWC-2550-01
25 AWG
Microwave
Cable

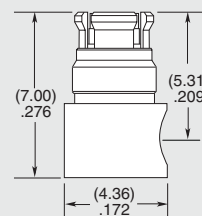
-0645



-1450



-ST-CXX



-RA-CXX

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

WWW.SAMTEC.COM

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.