

SMP-J-B-GF-ST-1450



SMP-J-C-GF-RA-CA7



SMP-PF-P-HH-ST-EM3



SMP-PF-P-GF-ST-TH2



SMP-J-C-GF-ST-CS5



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 :

ASK JIM

ASKJIM@TOBY.CO.UK

Sales@toby.co.uk

www.toby.co.uk

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.

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

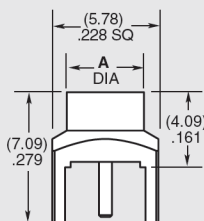
GENDER	A DIA
-PF	(4.19) .165
-PL	
-PS	
-PC	(5.99) .236

-TH2

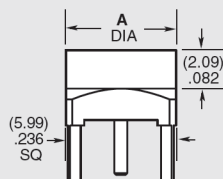
= Through-hole

-EM3

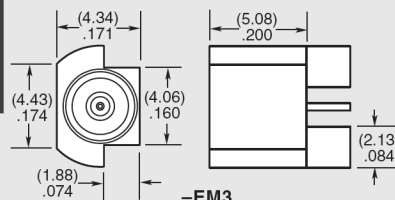
= Drop-in Edge Mount (Not available with -PC)



-PF/-PL/-PS/-TH2

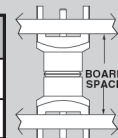


-PC-TH2



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")

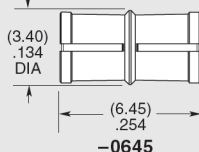
Leave blank for bullet type

-CA7

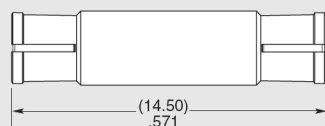
= RG 405 (.086" DIA) Semi-flexible Cable

-CS5

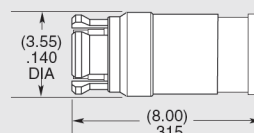
= MWC-2550-01 25 AWG Microwave Cable



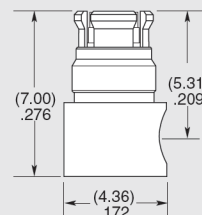
-0645



-1450



-ST-CXX



-RA-CXX

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

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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.