samtec

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 SERIES

50Ω SMP JACKS/PLUGS & ADAPTOR

SMP-PF, SMP-PL, SMP-PS, SMP-PC
Mate with:
SMP-B Bullet Adaptor

Cable Mates:
RF405, BE25M, BE25S, RF25M, RF25S

SPECIFICATIONS

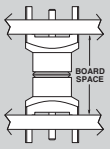
For complete specifications see www.samtec.com?SMP-TH, www.samtec.com?SMP-EM, www.samtec.com?SMP-B or www.samtec.com?SMP-CA

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 – GENDER – TYPE – PLATING – ORIENTATION – TERMINATION

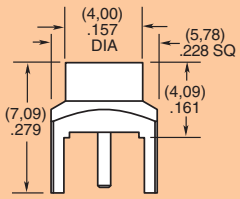
GENDER
- **–PF** = Plug, Full Detent
- **–PL** = Plug, Limited Detent
- **–PS** = Plug, Smooth Bore
- **–PC** = Plug, Catcher's Mitt

TYPE
- **–P** = PCB Mount

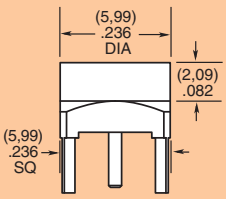
PLATING
- **–GF** = 10µ" (0,25 µm) Gold center contact, Gold Flash outer contact (–TH2 only)
- **–HH** = 30µ" (0,76 µm) Gold center and outer contact (–EM3 only)

ORIENTATION
- **–ST** = Straight

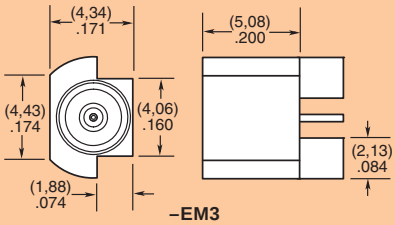
TERMINATION
- **–TH2** = Through-hole
- **–EM3** = Drop-in Edge Mount (N/A with –PC)



–PF/–PL/–PS–TH2



–PC–TH2



–EM3

ALSO AVAILABLE (MOQ Required)
- Other lengths
Contact Samtec.

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

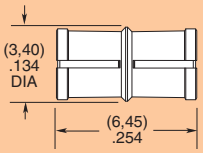
TYPE
- **–B** = Bullet Adaptor
- **–C** = Cable End

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

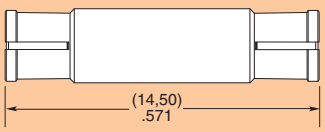
ORIENTATION
- **–ST** = Straight
- **–RA** = Right Angle (N/A with –B)

BULLET LENGTH
Leave blank for cable end
- **–0645** = 6,45 mm (.254")
- **–1450** = 14,50 mm (.571")

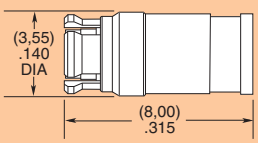
CABLE END
Leave blank for bullet type
- **–CA7** = RG 405 (.086" DIA) Semi-flexible Cable
- **–CA5** = CCA-25M Cable
- **–CS5** = MWC-2550-01 25 AWG Microwave Cable



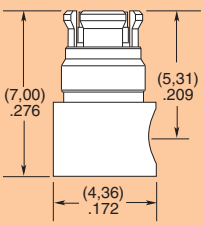
–0645



–1450



–ST–CXX



–RA–CXX

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

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