

SMB5-J-P-H-RA-TH1

SMB5-P-C-H-ST-CA1

SMB5-P-C-H-RA-CA1

## SMB5 SERIES

# 50 Ω SMB JACKS & PLUGS

## Mates with:

RF174, RF316, GRF1H-C

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SMB5-TH](http://www.samtec.com?SMB5-TH)

## Shell Material:

Brass

## Contact Material:

Brass

## Insulator Material:

PTFE

## Impedance:

50 Ω

## Frequency Range:

0~4 GHz

## Working Voltage:

250 Vrms max

## Dielectric Withstanding:

750 Vrms min

## Operating Temp Range:

-65 °C to +165 °C

## RoHS Compliant:

Yes

## PROCESSING

## Lead-Free Solderable:

Yes

## Note:

75 Ω version available.  
See SMB7H Series.

## SMB5

## GENDER

-J

= Jack

## TYPE

-P

= PCB Mount

## PLATING

-H

= 30 μ" (0.76 μm) Gold center contact,  
3 μ" (0.08 μm) Gold outer contact

## ORIENTATION

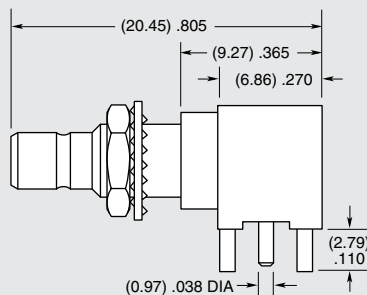
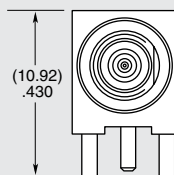
-RA

= Right-angle

## TERMINATION

-TH1

= Through-hole



## SPECIFICATIONS

For complete specifications and assembly instructions see [www.samtec.com?SMB5-CA](http://www.samtec.com?SMB5-CA)

## Shell Material:

Brass

## Contact Material:

Brass (-J),  
Phosphor Bronze (-P-ST),  
BeCu (-P-RA)

## Center Contact:

Soldered

## Outer Ferrule:

Crimped

## Insulator Material:

PTFE

## Impedance:

50 Ω

## Frequency Range:

0~4 GHz

## Working Voltage:

335 Vrms max

## Dielectric Withstanding:

1000 Vrms min

## Operating Temp Range:

-65 °C to +165 °C

## SMB5

## GENDER

-P

= Plug

-J

= Jack

## TYPE

-C

= Cable

## PLATING

-H

= 30 μ" (0.76 μm) Gold center contact,  
3 μ" (0.08 μm) Gold outer contact  
(-CA1 & BH1 only)

-HF

= 30 μ" (0.76 μm) Gold center contact,  
3 μ" (0.08 μm) Gold outer contact  
(-CA1 only)

## ORIENTATION

-ST

= Straight

-RA

= Right-angle (-P only)

## TERMINATION

-CA1

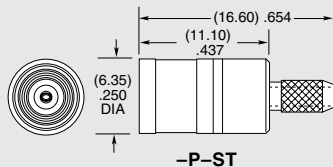
= RG 174/316 Cable (-P only)

-CA2

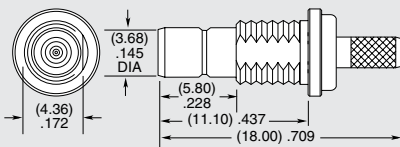
= RG 178 Cable (-J only)

-BH1

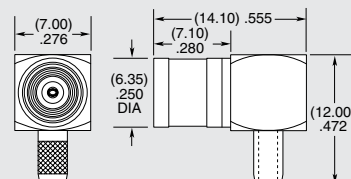
= RG 316 Cable (-J only)



-P-ST



-J-ST-BH1



-P-RA

Supplied with pins, washers, nuts and ferrules. See website for dimensions.

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

[WWW.SAMTEC.COM](http://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.