



75Ω OPTIMIZED SMB JACKS & PLUGS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SMB7H-TH or www.samtec.com?SMB7H-EM

Shell Material:

Brass

Contact Material:

Brass

Insulator Material:

PTFE

Impedance:

ST = 75Ω ±3Ω

RA = 75Ω ±4Ω

Frequency Range:

0-4 GHz

V.S.W.R.:

1.3 max

(With optimized launch design)

Working Voltage:

335 Vrms max

Dielectric Withstanding:

1000 Vrms min

Contact Resistance:

Center Contact: 6mΩ max

Outer Contact: 1mΩ max

Insulator Resistance:

1000 MΩ min

Operating Temperature:

-65°C to +125°C

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMB7H

GENDER

-J

= Jack

TYPE

-P

= PCB Mount

PLATING

-H

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

-HN

= 30μ" (0.76 μm)
Gold center contact,
3μ" (0.08 μm)
Gold outer contact,
50μ" (1.27 μm)
Nickel body
(Available on
-RA only)

ORIENTATION

-ST

= Straight

-RA

= Right Angle

TERMINATION

-TH1

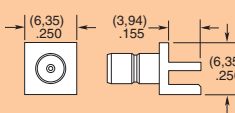
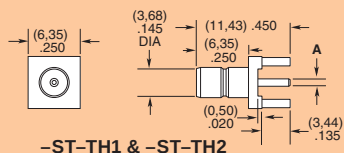
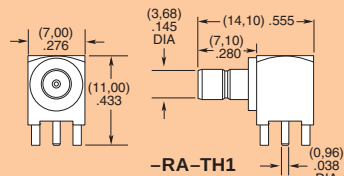
= Through-hole
(0.90 mm) .035" DIA
Signal Pin)

-TH2

= Through-hole
(0.51 mm) .020" DIA
Signal Pin)

-EM1

= Edge Mount
(-ST only)



TERMINATION	A (DIA)
-TH1	(0.90) .035
-TH2	(0.51) .020

SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com?SMB7H-CA

Shell Material:

Brass

Contact Material:

BeCu

Insulator Material:

PTFE

Center Contact:

Soldered

Outer Ferrule:

Crimped

Impedance:

75Ω

Frequency Range:

0-8 GHz (-ST)

0-7 GHz (-RA)

V.S.W.R.:

1.3 max

Working Voltage:

335 Vrms max

Dielectric Withstanding:

1000 Vrms min

Contact Resistance:

Center Contact: 6mΩ max

Outer Contact: 1mΩ max

Insulator Resistance:

1,000 MΩ min

Operating Temperature:

-65°C to +125°C

SMB7H

GENDER

-P

= Plug

TYPE

-C

= Cable

PLATING

-H

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

ORIENTATION

-ST

= Straight

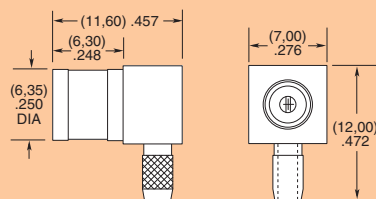
-RA

= Right Angle

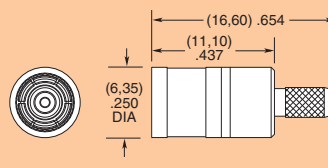
TERMINATION

-CA3

= RG 179 Cable



-P-RA



-P-ST

Supplied with pins and ferrules. See website for dimensions.

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

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