

**SMB7H SERIES**

# 75 Ω OPTIMIZED SMB JACKS & PLUGS

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?SMB7H-TH](http://www.samtec.com?SMB7H-TH) or [www.samtec.com?SMB7H-EM](http://www.samtec.com?SMB7H-EM)

- Shell Material:** Brass
- Contact Material:** Brass
- Insulator Material:** PTFE
- Impedance:** ST = 75 Ω ±3 Ω  
RA = 75 Ω ±4 Ω
- Frequency Range:** 0~4 GHz
- Working Voltage:** 335 Vrms max
- Dielectric Withstanding:** 1000 Vrms min
- Operating Temperature:** -65 °C to +165 °C
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes

**SMB7H**

**GENDER**

**TYPE**

**PLATING**

**ORIENTATION**

**TERMINATION**

Mates with:  
RF179, GRF7H-C

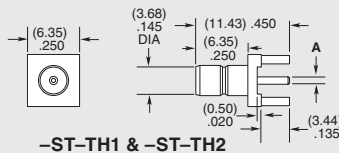
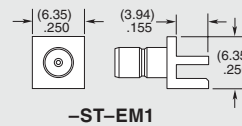
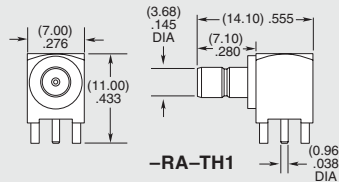
**-J**  
= Jack

**-P**  
= PCB Mount

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

**-ST**  
= Straight  
**-RA**  
= Right-angle

**-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](http://www.samtec.com?SMB7H-CA)

- Shell Material:** Brass
- Contact Material:** BeCu
- Insulator Material:** PTFE
- Center Contact:** Soldered
- Outer Ferrule:** Crimped
- Impedance:** 75 Ω
- Frequency Range:** 0~8 GHz (-ST)  
0~7 GHz (-RA)
- Working Voltage:** 335 Vrms max
- Dielectric Withstanding:** 1000 Vrms min
- Operating Temperature:** -65 °C to +165 °C

**SMB7H**

**GENDER**

**TYPE**

**PLATING**

**ORIENTATION**

**TERMINATION**

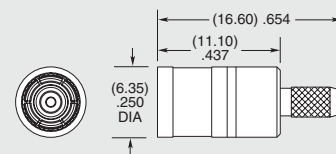
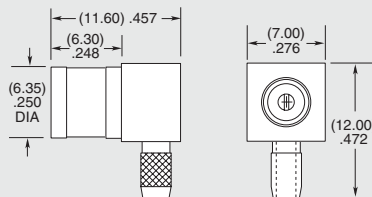
**-P**  
= Plug

**-C**  
= Cable

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

**-ST**  
= Straight  
**-RA**  
= Right-angle

**-CA3**  
= RG 179 Cable



-P-RA

-P-ST

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

Supplied with pins 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.