



SMB5-P-C-H-RA-CA1

**SMB5 SERIES**

# 50Ω 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:** 50Ω  
**Frequency Range:** 0~4 GHz  
**V.S.W.R:** 1.5 max  
**Working Voltage:** 250 Vrms max  
**Dielectric Withstanding:** 750 Vrms min  
**Contact Resistance:** Center Contact: 6mΩ max  
 Outer Contact: 2.5mΩ max  
**Insulator Resistance:** 1000 MΩ min  
**Operating Temp Range:** -65°C to +165°C  
**RoHS Compliant:** Yes

**Processing:**  
**Lead-Free Solderable:** Yes

**Note:** 75Ω version available. See SMB7H Series.

SMB5	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	-J = Jack	-P = PCB Mount	-H = 30μ" (0.76 μm) Gold center contact, 3μ" (0.08 μm) Gold outer contact	-RA = Right Angle	-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:** 50Ω  
**Frequency Range:** 0~4 GHz  
**V.S.W.R:** 1.3 max (-ST), 1.5 max (-RA)  
**Working Voltage:** 335 Vrms max  
**Dielectric Withstanding:** 1000 Vrms min  
**Contact Resistance:** Center Contact: 6mΩ max  
 Outer Contact: 2.5mΩ max  
**Insulator Resistance:** 1000 MΩ min  
**Operating Temp Range:** -65°C to +165°C

SMB5	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	-P = Plug  -J = Jack	-C = Cable	-H = 30μ" (0.76 μm) Gold center contact, 3μ" (0.08 μm) Gold outer contact	-ST = Straight  -RA = Right Angle (-P only)	-CA1 = RG 174/316 Cable (-P only)  -CA2 = RG 178 Cable (-J only)  -BH1 = RG 316 Cable (-J only)

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