



SMB/MINI-SMB Series

SMB/MINI-SMB

SMB (Sub-Miniature-B) series incorporates a “Snap On” latching action, which provides rapid and easy connections. The impedance of this series can be controlled at 50 ohms & 75 ohms (the 75 ohm version is also known as MINI-SMB connector), and it can be operated respectively up to 4GHz and 2GHz. The SMB is suitable for the standard ranges of flexible & semi-rigid cables, and it is also available as a PCB mounted version.

Applications:

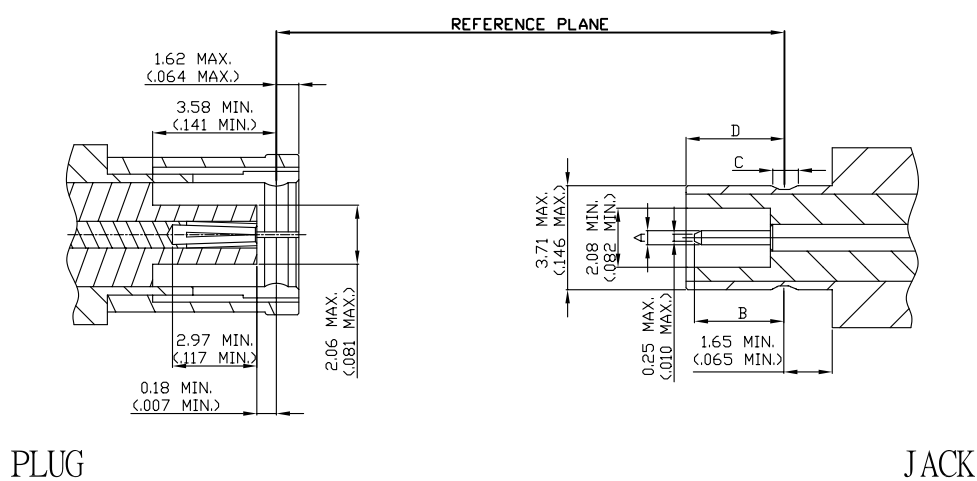
*test and measurement *instrumentation *telecommunications *video systems *PC/LAN
*microwave components *base stations *radio boards *wireless

Interface dimensions conformable to the Standards:

International: IEC 169-10

USA: MIL-C-39012

SMB 50Ω Interface Dimensions:



SMB Series					
PLUG			JACK		
	Minimum	Maximum		Minimum	Maximum
				0.48(.019)	0.53(.021)
				2.39(.094)	2.97(.117)
				0.69(.027)	0.94(.037)
				3.33(.131)	3.58(.141)

*Millimeters(Inches)



Materials :

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium copper	Gold
Insulator	Teflon	N/A
Crimp ferrule	Annealed copper	Nickel or Gold

Electrical :

Electrical Data	Detail		
Impedance	50 ohm		
Frequency range	0~4 GHz		
Working voltage	RG178/U → 250 volts rms max. at sea level RG316/U, 405 → 335 volts rms max. at sea level		
Insulation resistance	1,000 megohms min.		
Dielectric withstanding voltage	RG178/U → 750 volts rms min. at sea level RG316, 405 → 1,000 volts rms min. at sea level		
Contact resistance	Center contact: 6 milliohms max. Outer contact: 2.5 milliohms max.		
VSWR: f (GHz)		Straight	Right angle
	RG178/U	1.3+0.04f	1.45+0.06f
	RG316/U, 405	1.25+0.04f	1.35+0.04f
Insertion loss	0.3dB max. (straight) 0.6dB max. (right angle)		

Mechanical :

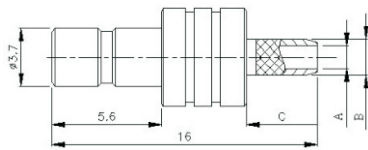
Mechanical Data	Detail
Engagement force	14 lbs max.
Disengagement force	14 lbs max.
Connector durability	500 cycles min.
Cable retention force	RG178/U → 10 lbs
	RG316/U → 20 lbs
	RG405 → 30 lbs

Environmental :

Environmental Data	Detail
Corrosion (Salt spray)	MIL-STD-202 METHOD 101 CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 CONDITION B
Vibration	MIL-STD-202 METHOD 204 CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 CONDITION B

SMB STRAIGHT PLUG FOR CABLE TYPE

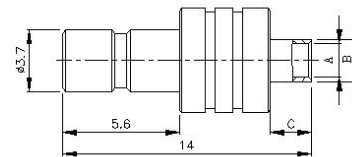
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-01G-TGN(75Ohm) RG-59/U
 SMB-01F-TGN RG-58/U
 SMB-01N-TGN(75Ohm) RG-179/U
 SMB-01LV1-TGN RG-174,316/U
 SMB-01M-TGG RG-178/U
 SMB-01U-TGG 1.30MM CABLE



SOLDER FOR SEMI-RIGID CABLE

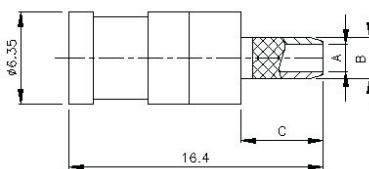


PART NUMBER:
 SMB-01V1-TGG RG-405/U(.085")
 SMB-01V3-TGG M17/151(.047")



SMB STRAIGHT JACK FOR CABLE TYPE

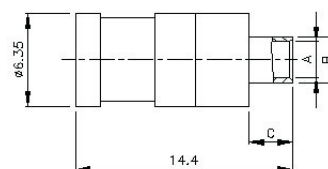
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-02G-TGN(75Ohm) RG-59/U
 SMB-02F-TGN RG-58/U
 SMB-02N-TGN(75Ohm) RG-179/U
 SMB-02NV1-TGN(75Ohm) RD-179/U
 SMB-02LV1-TGN RG-174,316/U
 SMB-02M-TGG RG-178/U
 SMB-02U-TGG 1.30MM CABLE



SOLDER FOR SEMI-RIGID CABLE

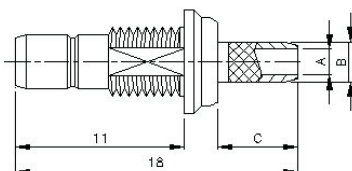


PART NUMBER:
 SMB-02V1-TGG RG-405/U(.085")
 SMB-02V3-TGG M17/151(.047")



SMB STRAIGHT PLUG BULKHEAD FOR CABLE TYPE

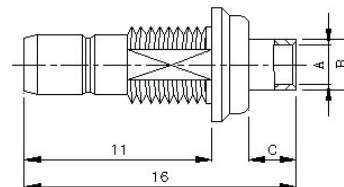
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-05G-TGN(75Ohm) RG-59/U
 SMB-05F-TGN RG-58/U
 SMB-05N-TGN(75Ohm) RG-179/U
 SMB-05NV1-TGN(75Ohm) RD-179/U
 SMB-05LV1-TGN RG-174,316/U
 SMB-05M-TGG RG-178/U
 SMB-05U-TGG 1.30MM CABLE



SOLDER FOR SEMI-RIGID CABLE

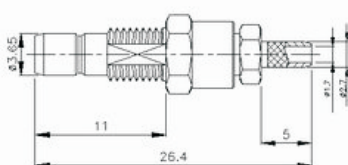


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 SMB-05V1-TGG RG-405/U(.085")
 SMB-05V3-TGG M17/151(.047")



SMB STRAIGHT FOR CABLE TYPE

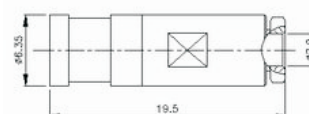
BULKHEAD PLUG



PART NUMBER:
 SMB-15LV1-TGN RG-174,316/U
 SMB-15M-TGG RG-178/U



CLAMP JACK



PART NUMBER:
 SMB-30LV1-TGN RG-174,316/U
 SMB-30M-TGG RG-178/U

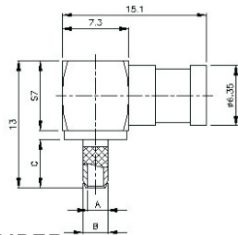




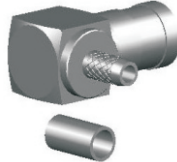
SMB

SMB RIGHT ANGLE JACK FOR CABLE TYPE

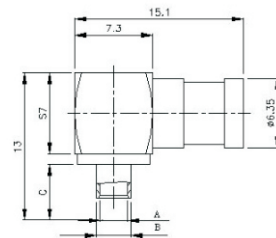
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-03G-TGN(75Ohm) RG-59/U
 SMB-03F-TGN RG-58/U
 SMB-03N-TGN(75Ohm) RG-179/U
 SMB-03N5-TGN(75Ohm) RD-179/U
 SMB-03LV1-TGN RG-174,316/U
 SMB-03M-TGG RG-178/U



SOLDER FOR SEMI-RIGID CABLE

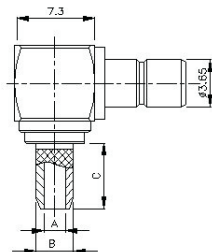


PART NUMBER:
 SMB-03V1-TGG RG-405/U(.085")
 SMB-03V2-TGG RG-402/U(.141")
 SMB-03V3-TGG M17/151(.047")

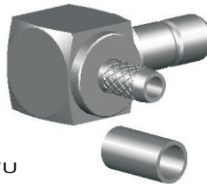


SMB RIGHT ANGLE PLUG FOR CABLE TYPE

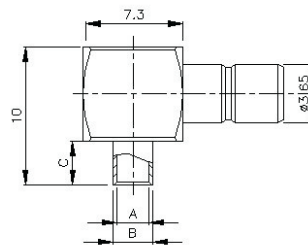
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-08G-TGN(75Ohm) RG-59/U
 SMB-08F-TGN RG-58/U
 SMB-08N-TGN(75Ohm) RG-179/U
 SMB-08N5-TGN(75Ohm) RD-179/U
 SMB-08LV1-TGN RG-174,316/U
 SMB-08M-TGG RG-178/U



SOLDER FOR SEMI-RIGID CABLE

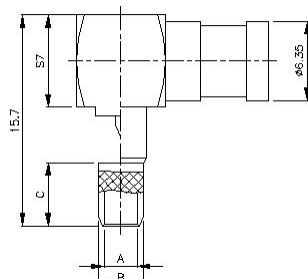


PART NUMBER:
 SMB-08V1-TGG RG-405/U (.085")
 SMB-08V2-TGG RG-402/U (.141")
 SMB-08V3-TGG M17/151(.047")

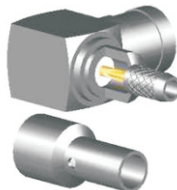


SMB RIGHT ANGLE CRIMP FOR FLEXIBLE CABLE

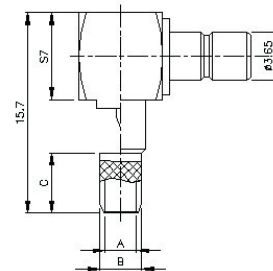
JACK



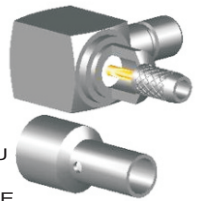
PART NUMBER:
 SMB-19V1F-TGN(75Ohm) BT-3002
 SMB-19LV1-TGN RG-174,316/U
 SMB-19M-TGN RG-178/U
 SMB-19U-TGN 1.30MM CABLE



PLUG

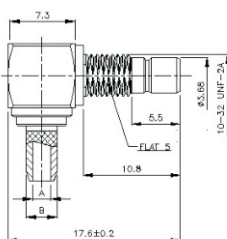


PART NUMBER:
 SMB-24V1F-TGN(75Ohm) BT-3002
 SMB-24LV1-TGN RG-174,316/U
 SMB-24M-TGN RG-178/U
 SMB-24U-TGN 1.30MM CABLE

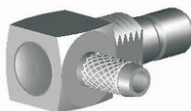


SMB RIGHT ANGLE BULKHEAD PLUG FOR CABLE TYPE

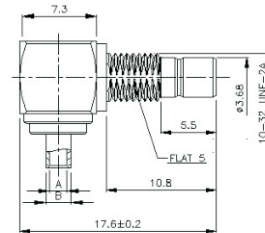
CRIMP FOR FLEXIBLE CABLE



PART NUMBER:
 SMB-32N-TGN(75Ohm) RG-179/U
 SMB-32N5-TGN(75Ohm) RD-179/U
 SMB-32LV1-TGN RG-174,316/
 SMB-32M-TGG RG-178/U



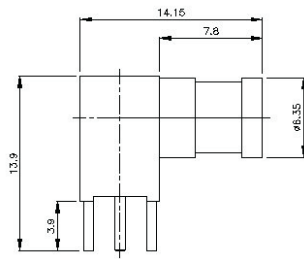
SOLDER FOR SEMI-RIGID CABLE



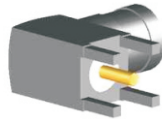
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 SMB-32V2-TGG RG-402/U (.141")
 SMB-32V3-TGG M17/151(.047")



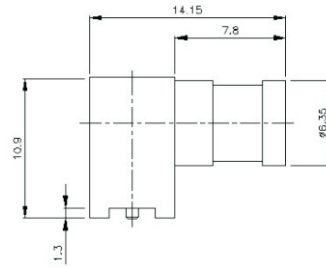
SMB RIGHT ANGLE JACK PCB MOUNT RECEPTACLE



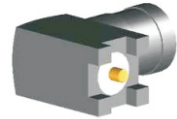
PART NUMBER:
SMB-06-TGG
SMB-06-TGG-75 (75Ohm)



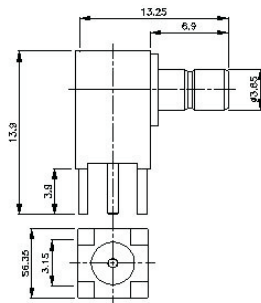
SURFACE MOUNT



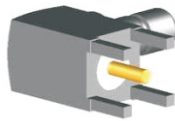
PART NUMBER:
SMB-06V4-TGG
SMB-06V4-TGG-75(75Ohm)



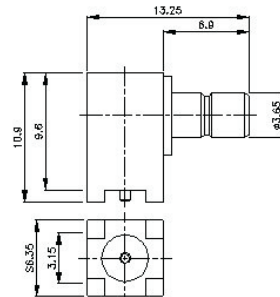
SMB RIGHT ANGLE PLUG PCB MOUNT RECEPTACLE



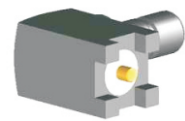
PART NUMBER:
SMB-07-TGG
SMB-07-TGG-75 (75Ohm)



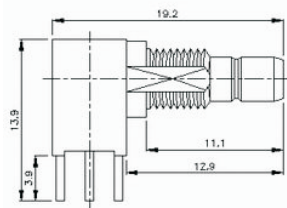
SURFACE MOUNT



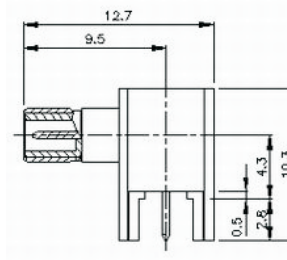
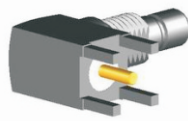
PART NUMBER:
SMB-07V4-TGG
SMB-07V4-TGG-75



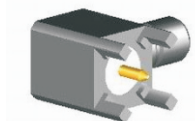
BULKHEAD



PART NUMBER:
SMB-07V5-TGG
SMB-07V5-TGG-75 (75Ohm)



PART NUMBER:
SMB-07V6-TGG
SMB-07V6-TGG-75 (75Ohm)

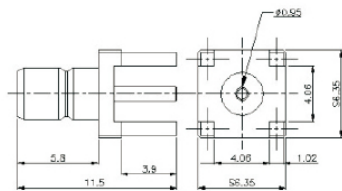


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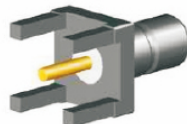


SMB

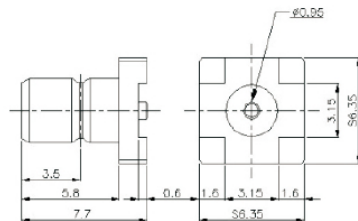
SMB STRAIGHT PLUG FOR PCB MOUNT RECEPTACLE



PART NUMBER:
SMB-10-TGG
SMB-10-TGG-75 (75Ohm)
SMB-10-TGG-75-1(75Ohm)



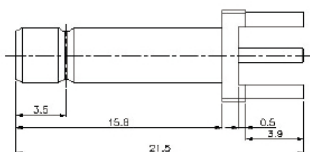
SURFACE MOUNT



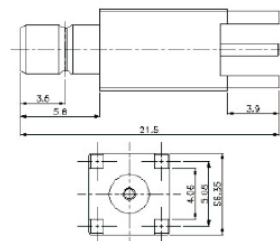
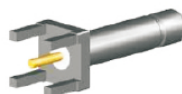
PART NUMBER:
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SMB-10v4-TGG-75 (75Ohm)



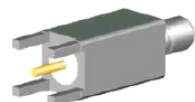
SMB STRAIGHT PLUG PCB MOUNT RECEPTACLE



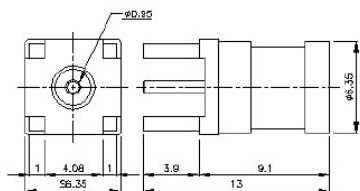
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SMB-10V6-TGG



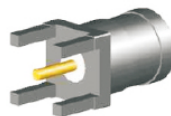
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SMB-10V7-TGG-75 (75Ohm)



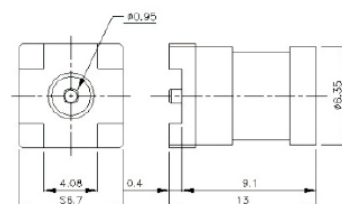
SMB STRAIGHT JACK PCB MOUNT RECEPTACLE



PART NUMBER:
SMB-11-TGG
SMB-11-TGG-75 (75Ohm)



SURFACE MOUNT

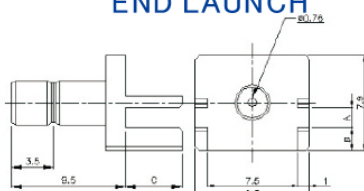


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SMB-11V4-TGG-75 (75Ohm)

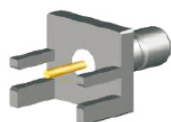


SMB STRAIGHT PLUG PCB MOUNT RECEPTACLE

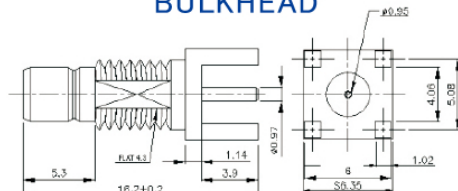
END LAUNCH



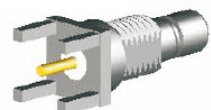
PART NUMBER:	BOARD THICKNESS	A
SMB-10V5-TGG	1.57	1.73
SMB-10V5-TGG-75		
SMB-10V8-TGG	1.07	1.22
SMB-10V8-TGG-75		



BULKHEAD



PART NUMBER:
SMB-33-TGG
SMB-33-TGG-75(75Ohm)
SMB-34-TGG
SMB-34-TGG-75(75Ohm)

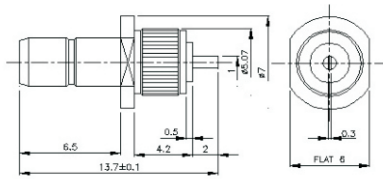




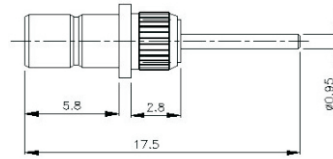
SMB

SMB STRAIGHT PLUG PRESS-IN RECEPTACLE

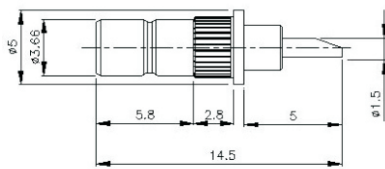
TAB CONTACT



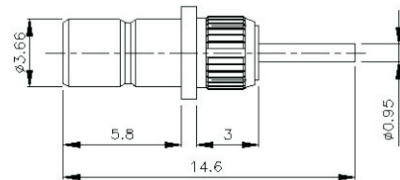
PART NUMBER:
SMB-17V5-TGG
SMB-17V5-TGG-75 (75Ohm)



PART NUMBER:
SMB-09-TGG
SMB-09-TGG-75 (75Ohm)

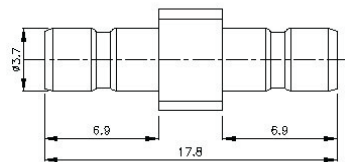


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SMB-09V4-TGG
SMB-09V4-TGG-75 (75Ohm)

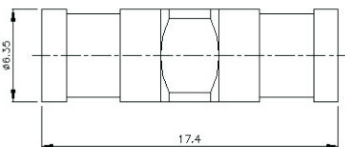


PART NUMBER:
SMB-09V5-TGG
SMB-09V5-TGG-75 (75Ohm)

SMB PLUG-PLUG ADAPTOR

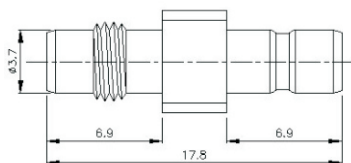


PART NUMBER:
SMB-20-TGG
SMB-20-TGG-75 (75Ohm)



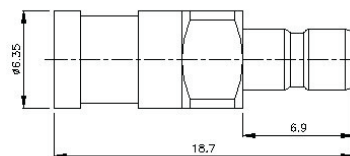
PART NUMBER:
SMB-23-TGG
SMB-23-TGG-75 (75Ohm)

SMB PLUG-SMC PLUG ADAPTOR



PART NUMBER:
SMB-21-TGG
SMB-21-TGG-75 (75Ohm)

SMB PLUG-JACK ADAPTOR



PART NUMBER:
SMB-22-TGG
SMB-22-TGG-75 (75Ohm)

