



SMA Features

- 18 GHz MIL-C-39012 SMA specifications
- High quality finish and optimum electrical properties
- Special version offers housing elements made of copper beryllium or stainless steel for higher mechanical strength
- Copper beryllium of the special version is gold plating, while stainless steel connectors are passivated
- SSMA also available.

SMB Features

- DC to 4GHz MIL-C-39012 SMB specifications
- Snap-on for rapid connection and disconnection

MCX Features

- Up to 2GHz MIL-C-39012 MCX specifications
- 30% less space than SMB
- Offers equal contact reliability as SMB

Major Performance

SMA	Impedance	50 Ω		Contact resistance	Center Contacts	3,0m Ω
	Frequency range	Semi-rigid	DC 18GHz		Outer Contacts	2,5m Ω
		Flexible	DC 12,4GHz	Insulation resistance	500M Ω min	
	Contact current	DC 2,0A max		Insertion loss	0,05 f(GHz)db	
	Working voltage	Semi-rigid	1000V		V,S,W,R	<1,15+0,02f(GHz)
Flexible		750V		RF leakage	-60dB min@2~3GHz	

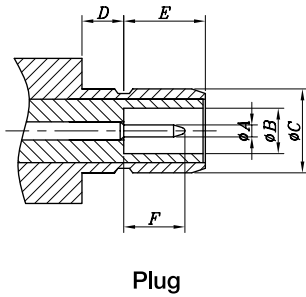
SMB	Impedance	50 Ω		Insulation resistance	1000M Ω min	
	Frequency range	DC to 4GHz		Insertion loss	0,6dB max	
	Contact current	DC 1,5A max		V,S,W,R	Straight	1,3+0,04f
	Voltage rating	250V R,M,S			Right-angle	1,4+0,06f
	Contact resistance	Center Contacts	0,3m Ω		RF leakage	-55dBm min, between 2 to 3 GHz
Outer Contacts		0,5m Ω				

MCX	Impedance	50 Ω		Contact resistance	Center Contacts	5,0m Ω
	Frequency range	up to 2 GHz			Outer Contacts	1,0m Ω
	Contact current	DC 1,5A		Insulation resistance	1000M Ω min	
	Voltage rating	250V R,M,S		V,S,W,R	Straight	1,3 max
			Right-angle		1,35 max	

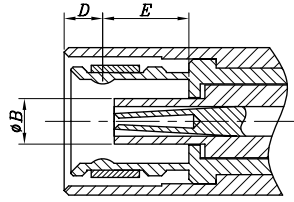
Material Used / Finish

General		Material	Finish
Body		Brass	Gold Plating
Insulator		PTFE	Natural(White)
Contacts	Male	Brass	Gold Plating
	Female	Brass	Gold Plating

■ **SMB Interface Dimensions**



Plug



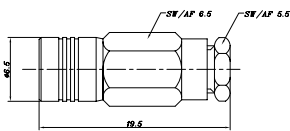
Jack

Interface Dimension

SMB	Plug		Jack	
	min.	max.	min.	max.
ϕA	0,48	0,53		
ϕB	2,08			2,06
ϕC	3,66	3,71		
D	1,65			1,63
E	3,33	3,58	3,58	
F		2,97	2,97	

■ **SMB Jack**

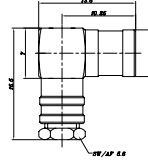
Flexible Cable - Clamp



Product Number

- SMB-J-58/U
- SMB-J-178/U
- SMB-J-316/U

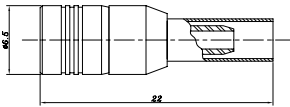
Right-angle - Flexible - Clamp



Product Number

- SMB-LJ-58/U
- SMB-LJ-178/U
- SMB-LJ-316/U

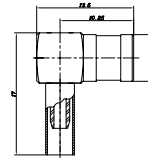
Flexible Cable - Crimp



Product Number

- SMB-JC-58/U
- SMB-JC-178/U
- SMB-JC-316/U

Right-angle - Flexible Cable - Crimp

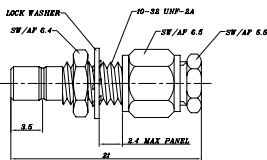


Product Number

- SMB-LJC-58/U
- SMB-LJC-178/U
- SMB-LJC-316/U

■ **SMB Plug**

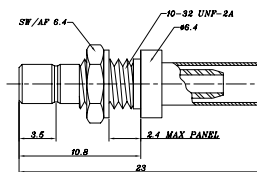
Bulkhead - Flexible - Clamp



Product Number

- SMB-BP-58/U
- SMB-BP-178/U
- SMB-BP-316/U

Bulkhead - Flexible Cable - Crimp

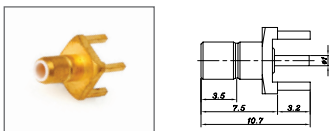


Product Number

- SMB-BPC-58/U
- SMB-BPC-178/U
- SMB-BPC-316/U

■ **SMB Receptacles**

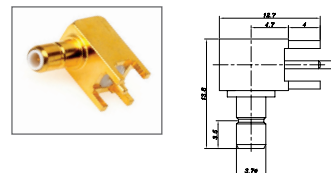
PCB Receptacle - 4 leg - Stub Terminated



Product Number

- SMB-J4R-PCB

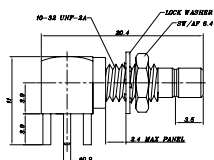
Right-angle - PCB Receptacle - 4 leg - Stub Terminated



Product Number

- SMB-LJ4R-PCB

Right-angle - Bulkhead - PCB Receptacle - 4 leg - Stub



Product Number

- SMB-LB4R-PCB

Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.