

SMA, SMB, MCX Series – Miniature



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 plated, 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	50Ω		Contact resistance	Center Contacts	3.0mΩ	
	Frequency range	Semi-rigid	DC 18GHz		Outer Contacts	2.5mΩ	
		Flexible	DC 12.4GHz	Insulation resistance			500MΩ min
	Contact current	DC 2.0A max		Insertion loss			0.05 f(GHz)db
	Working voltage	Semi-rigid	1000V		V.S.W.R		
Flexible		750V		RF leakage			-60dB min @2~3GHz

SMB	Impedance	50Ω		Insulation resistance	1000MΩ 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	0.3mΩ		RF leakage		
Outer Contacts		0.5mΩ					

MCX	Impedance	50Ω		Contact resistance	Center Contacts	5.0mΩ		
	Frequency range	up to 2 GHz			Outer Contacts	1.0mΩ		
	Contact current	DC 1.5A		Insulation resistance			1000MΩ 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
Insulator		PTFE	Natural(White)
Contacts	Pin	Brass	Brass
	Socket	Brass	Brass

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

