

SMB/SMC COAXIAL CONNECTORS

ELECTRICAL SPECIFICATIONS

ELECTRICAL DATA		SMB		SMC	
Impedance		50 ohm		50 ohm	
Frequency range		0–4 GHz		0–10 GHz	
VSWR *f in GHz	Cable dielectric dimensions	0.87 mm [.034"]	1.5 mm [.059"]	0.87 mm [.034"]	1.5 mm [.059"]
	Straight connector DC–1000 MHz	1.3 + 0.04f	1.25 + 0.04f	1.25 + 0.04f	1.15 + 0.04f
	Right angle connector DC–1000 MHz	1.4 + 0.08f	1.3 + 0.04f	1.4 + 0.06f	1.25 + 0.04f
Dielectric withstanding Voltage 50 Hz rms		750V	1000V	750V	1000V
Working voltage 50 Hz rms		250V	335V	250V	335V
Working voltage DC		350V	450V	350V	450V
Insulation resistance		1000 Megohms min		1000 Megohms min	
Resistance		gohms		≤ 3 Megohms	
	Outer conductor	≤ 0.5 Megohms		≤ 0.5 Megohms	
Insertion loss (db max.)	Straight connectors	.30 db max. at 1.5 GHz		.25 db max. at 4 GHz	
	Right angle connectors	.60 db max. at 1.5 GHz		.50 db max. at 4 GHz	

MATERIAL SPECIFICATIONS

PARTS NAME		MATERIAL	FINISH
Body, Metal parts		Brass per QQ-B-626	Nickel or gold per requirement
Contacts	Male	Brass per QQ-B-626	30u" Gold
	Female	Beryllium copper, Per QQ-C-530, heat treated per MIL-H-7199	30u" Gold
Insulators		PTFE	None
Gasket		Silicone rubber	None
Crimp ferrules		Seamless copper tubing alloy	Nickel or gold per requirement

