SMB

CHARACTERISTICS

TEST / CHARACTERISTICS	MIL-C-39012 A	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

Impedance			-	50Ω		
Frequency Range			-	DC - 4 GHz		
V.S.W.R. (typ.)		**Frequency**	3-14	1 GHz	2.5 GHz	4 GHz
• Straight Models	**Cable Group:**	**.085"**	-	1.12	1.22	1.33
		2	-	1.10	1.22	1.33
		2.6	-	1.12	1.22	1.35
• Right Angle Models		**.085"**	-	1.10	1.18	1.26
		2	-	1.10	1.20	1.25
Insertion Loss (typ.) dB			3-27			
• Straight Models	**Cable Group:**	**.085"**	-	0.05	0.07	0.15
		2	-	0.05	0.10	0.25
		2.6	-	0.05	0.05	0.05
• Right Angle Models		**.085"**	-	0.05	0.07	0.12
RF Leakage			3-26	-55 dB min from 2 to 3 GHz		
Insulation Resistance			3-11	1000 MΩ min		
Contact Resistance			3-16	Initial		After Test
• Center Contact (mΩ)			-	6		8
• Outer Contact (mΩ)			-	1		1.5
Working Voltage						
• Cable Group			-	2/50		2.6/50
• At Sea Level			-	250 V rms		335 V rms
• At 70000 ft (21000 m)			-	60 V rms		85 V rms
Dielectric Withstanding Voltage						
• Cable Group			3-17	2/50		2.6/50
• At Sea Level			-	750 V rms		1000 V rms
• At 70000 ft (21000 m)			-	185 V rms		250 V rms
RF Withstanding Voltage (5 MHz Sine Wave)			3-23			
• Cable Group			-	2/50		2.6/50
• At Sea Level			-	500 V rms		700 V rms

MECHANICAL CHARACTERISTICS

Durability		3-15	500 Matings
Mating / Unmating		3-5-1	Axial force: 62 N max (14 Lbf)
Cabling Retention Force	**Cable Group:**	3-24	
	• 2/50		58 N (13Lbf)
	• 2.6/50		110 N (25Lbf)
Center Contact Retention		-	Axial: 10 N (2.25 Lbf)

ENVIRONMENTAL CHARACTERISTICS

Temperature Range		
• Standard Models	-	-65 °C / + 165 °C
• Hermetic Sealed Models	-	-65 °C / +165 °C
• Models for Semi-Rigid Cables	-	-65 °C / +105 °C
Combined Climate Tests	-	MIL-STD-202, Method 102, Condition C
Thermal Shock	3-20	MIL-STD-202, Method 107, Condition B
High Temperature Endurance	-	MIL-STD-202, Method 108
Corrosion (Salt Spray)	3-13	MIL-STD-202, Method 101, Condition B, 5%
Vibrations	3-18	MIL-STD-202, Method 204, Condition B, 15g
Shocks	3-19	MIL-STD-202, Method 213, Condition B, 75g
Low Pressure	3-22	MIL-STD-202, Method 105, Condition C
Hermetic Seal	-	Applied Vacuum 10^{-6} mm of Hg (Torrs) Leakage Rate < 10^{-6} atm/cm³/s

MATERIALS AND PLATING

	Material	Plating
Body and Center Pin Contact	Half Hard Brass as per QQ-B-626	Gold or Nickel (Body)
Center Socket Contact	Beryllium Copper as per QQ-C-530	Gold (Center Contact)
Ferrules	Brass	-
Insulators	PTFE Teflon	-
Gaskets	Silicone Elastomer	-

All dimensions are given in mm.
Standard packaging: 100 pieces