SMA 2.9

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS	
	ULTEM TECHNOLOGY	KAPTON TECHNOLOGY
ELECTRICAL CHARACTERISTICS		
Impedance	50Ω	
Frequency Range	DC - 40 GHz	DC - 46 GHz
V.S.W.R.	< 1.05 + 0.005 F (GHz)	
Insertion Loss	0.03 √ F (GHz)	
RF Leakage	– 90 dB max	
Insulation Resistance	≥ 5000 MΩ	
Contact Resistance **• Outer Contact** **• Inner Contact**	≤ 2 mΩ Straight ≤ 3 mΩ Hermetic ≤ 7 mΩ	
Voltage Rating	350 V(RMS)	
Dielectric Withstanding Voltage	750 V(RMS)	
MECHANICAL CHARACTERISTICS		
Mechanical Endurance	500 Matings	
Force to Engage and Disengage	≤ 23 N cm (2 in/lbs)	
Mating Torque	80 to 115 N cm (7 to 10 in/lbs)	
Coupling Nut Retention Force	≤ 272 N (61 lbf)	
Cable Retention Force **• .085"** **• .141"**	 135 N (30 lbf) 270 N (60 lbf)	
Contact Captivation	28N (6.3 lbf)	
ENVIRONMENTAL CHARACTERISTICS		
Temperature Range	-65 °C / + 165 °C	-65 °C / +200 °C
Thermal Shock	MIL STD 202, Method 107, Condition B	
High Temperature Test	MIL STD 202, Method 108	
Corrosion (Salt Spray)	MIL STD 202, Method 101, Condition B, 5 %	
Vibration	MIL STD 202, Method 204, Condition D, 20g	
Shock	MIL STD 202, Method 213, Condition I, 100g	
Moisture Resistance	MIL STD 202, Method 106	

MATERIALS AND PLATING

	Material	Plating
Bodies	Stainless Steel	Passivated
Center Contacts	Beryllium Copper	Gold Plated
Gasket	Silicone Rubber	-
Insulators	Ultem (Ultem Technology) Kapton (Kapton Technology)	-

Notes
Packaging: unit
All dimensions are given in mm (inch)