SMPW

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

Impedance	50Ω
Frequency Range	0 - 100 GHz
V.S.W.R.	DC - 26.5 GHz <1.1 26.5 - 65 GHz <1.25
Insertion Loss	0.12 √F (GHz) dB Max
RF Leakage	-80 dB mated pair
Working Voltage	125 Vrms
Insulation Resistance	≥ 3,500 MΩ mini
Center Contact Resistance	≤ 6.0 MΩ max
Outer Contact Resistance	≤ 2.0 MΩ max

MECHANICAL CHARACTERISTICS

Mechanical Durability	100 cycles (full) 500 cycles (smooth)	
Cable Retention Force **Semi Rigid Cable .047**	> 45 N	
Radial Misalignment	± 0.25 mm	
Axial Misalignment	-0/+0.25 mm	
Mating Force **Force to Engagement** **Force to Disengagement**	Full Detent 4 N 6.5 N	Smooth Bore 2.2 N 1 N
Vibration	MIL-STD 202G Method 104, test condition D	
Shock	MIL-STD 202G Method 213, test condition I	
Thermal Shock	-65° C / +125° C	
Center Contact Retention **Receptacle** • Axial Force • Torque **Cabling connector** • Axial Force • Torque	 6 N N.A 6 N N.A	
Contact Captivation Axial (N)	6.7	

ENVIRONMENTAL CHARACTERISTICS

Rapid Change of Temperature	65 °C to +165 °C 25 cycles 30 mn
Salt Spray	48 H
Life Test	1,000 H at 125 °C

MATERIALS

Body	Beryllium Copper or Stainless steel
Center Contact	Beryllium Copper

PLATING

Body	Gold
Center Contact	Gold