MMT

CHARACTERISTICS

TEST / CHARACTERISTICS	TEST STANDARD	VALUES / REMARKS	
ELECTRICAL CHARACTERISTICS			
Impedance	-	50Ω	75Ω
Frequency Range	-	DC - 8 GHz	DC - 1 GHz
Typical V.S.W.R. (Mated Pair)	IEC 1169-1	1.05 at 1 GHz 1.10 at 2.5 GHz 1.15 at 6 GHz	
Insertion Loss	IEC 1169-1	≤ 0.2 √ F (GHz)	
RF Leakage (Mated Pair)	IEC 1726	-42 dB at 500 MHz -38 dB at 1 GHz -30 dB at 3 GHz	
Outer Contact Resistance	IEC 1169-1 (I=40 mA eff.)	Initial: 2.5 mΩ max	Final: 12.5 mΩ max
Center Contact Resistance	IEC 1169-1 (I=40 mA eff.)	Initial: 5 mΩ max	Final: 15 mΩ max
Insulation Resistance	IEC 1169-1	≥ 5000 MΩ under 500 Vcc	
Working Voltage	-	170 V eff.	
Testing Voltage	IEC 1169-1	500 V eff.	
Maximum Admissible Power	-	23 W at 1.8 GHz / 40 °C / V.S.W.R. = 1.1	
MECHANICAL CHARACTERISTICS			
Durability	IEC 1169-1	500 matings	
Force to Engage/Disengage	IEC 1169-1	Ins ≤ 18 N	Ext > 7 N
Shocks	IEC 68–2–27	Passed	
Vibrations	IEC 68–2–6	Passed	
Bump	IEC 68–2–29	Passed	
Cable Retention Force	IEC 1169-1	Ø 2 mm: 20 N ; Ø 2.6 mm: 60 N	
Solderability	IEC 68–2–29	Passed	
ENVIRONMENTAL CHARACTERISTICS			
Temperature Range	-	55 °C / 100 °C	
Damp Heat	IEC 68-23	Passed	
Thermal Shocks	IEC 68-2-14 / Test NA	Passed	
MATERIALS			
Plugs Body/In-Series Adaptor	Brass		
Receptacles Body	CuSn9p		
Plugs Center Contact	Cube2		
Receptacles Center Contact	Brass		
Insulator	PTFE, Delrin		
PLATING			
Bodies Plugs/In-Series Adapters	Nickel / BBR		
Bodies Receptacles	Gold		
Plugs Center Contact	Gold		
Receptacles Center Contact	Gold		

RF LEAKAGE AND V.S.W.R



