MMS

CHARACTERISTICS

TEST / CHARACTERISTICS	TEST STANDARD	VALUES / REMARKS	
ELECTRICAL CHARACTERISTICS			
Impedance	-	50Ω	75Ω
Frequency Range	-	DC - 6 GHz	DC - 1 GHz
Typical V.S.W.R. (Mated Pair)	IEC 1169-1	1.05 at 1 GHz 1.15 at 2.5 GHz 1.35 at 6 GHz	
Insertion Loss	IEC 1169-1	0.2 dB at 2 GHz	
RF Leakage (Mated Pair)	MIL STD 1344 Method 3008	-50 dB at 500 MHz -45 dB at 1 GHz -40 dB at 2 GHz	
Outer Contact Resistance	NF–C 93050 (I = 40 mA peak)	5 mΩ max	
Center Contact Resistance	NF–C 93050 (I = 40 mA peak)	15 mΩ max	
Insulation Resistance	IEC 1169-1	500 MΩ min (under 250 V RMS)	
Working Voltage	-	50 V RMS	
Testing Voltage (V RMS)	IEC 1169-1	Ø 1 mm: 250 ; Ø 2 mm: 500	
Maximum Admissible Power	-	40 W at 1 GHz / 20 °C / V.S.W.R. = 1	
MECHANICAL CHARACTERISTICS			
Durability	IEC 1169-1	50 matings	
Force to Engage	IEC 1169-1	7 N avg	
Force to Disengage	IEC 1169-1	5.5 N avg	
Shocks (Drop Test)	IEC 68-2-27	50 g/11 ms ; 3 shocks / axis / way	
Random Vibrations	General Motors spec.	Sine waves 5 to 1000 Hz 3 to 30g - 1 H/axis	
Bumps (Mechanical Shocks)	IEC 68-2-29	25 g/6 ms 1000 bumps / axis / way	
Cable Retention Force	IEC 1169-1	Ø 1 mm: 20 N ; Ø 2 mm: 35 N	
Solderability	IEC 68-2-54	Passed	
ENVIRONMENTAL CHARACTERISTICS			
Temperature Range	-	-40 °C / +90 °C	
Climatic Cycles	GAM T 13	48 H at 70 °C - 24 H at 40 °C / 93% -36 H at -25 °C	

MATERIALS

Bodies Plugs/In-Series Adapters	Die Cast Zinc / Brass
Bodies Receptacles	Phosphor Bronze
Center Contact **• Male** **• Female**	 Brass Beryllium Copper
Insulator	PTFE

PLATING

Bodies Plugs/In-Series Adapters	Nickel
Bodies Receptacles	Gold
Center Contact **• Male** **• Female**	 Nickel Gold

RF LEAKAGE AND V.S.W.R



