QN

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS	
ELECTRICAL CHARACTERISTICS		
Impedance	50Ω	
Frequency Range	DC - 6 GHz (optimized) DC - 11 GHz (working range)	
Return Loss Typical **• DC - 3 GHz** **• 3 GHz - 6 GHz**	 ≥ 32 dB / 1.05 ≥ 25 dB / 1.12	
Intermodulation	Better - 155 dBc (2 x 43 dBm)	
RF Leakage	100 MHz to 3 GHz better than - 90 dB 3 to 6 GHz better than - 80 dB	
Dielectric Withstanting Voltage in VRMS (Interface) **• At Sea Level, 50 Hz**	2500	
Working Voltage in VRMS (Interface) **• At Sea Level, 50 Hz**	≤ 1000	
Insulation Resistance	≤ 5.10^3 MΩ	
Contact Resistance **• Initial** **• After Test**	Center Contact ≤ 1 mΩ ≤ 1.5 mΩ	Outer Contact ≤ 0.25 mΩ ≤ 1 mΩ
MECHANICAL CHARACTERISTICS		
Durability Matings	≥ 100	
Force to Engage and Disengage **• Typical**	 40 N	
Retention Force for Interface	≥ 450 N (101.25 Lbs)	
Bending Moment Admissible Interface	≤ 10 Nm	
Contact Captivation **• Cable Connectors** **• Receptacles**	 ≥ 28 N ≥ 18 N	
ENVIRONMENTAL CHARACTERISTICS		
Temperature Range	- 55 °C + 125 °C	
Climatic Category	40 / 125 / 21 (IEC 60169 1 16.2)	
Shock	MIL STD 202F, Method 213, Condition I	
Rapid Change of Temperature	IEC 60169-1 16.4 (-40 °C + 125 °C)	
Corrosion Salt Spray	Test acc. to MIL STD 202F, method 101D, Condition B	
Vibration	IEC 1169-1 Paragraph 9.3.3 (10-500 Hz; 5g)	
Moisture Resistance	MIL STD 202 F, Method 106F	
Water Resistance	IP68	

MATERIALS AND PLATING

	Material	Plating
Body	Brass	BBR over Silver
Center Contact	Brass / Beryllium Copper	Silver Passivated over Copper
Outer Contact	Beryllium Copper	BBR over Silver
Insulator	PTFE	
Other Parts	Brass	BBR

All dimensions are given in mm.