



QN

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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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 Withstanding 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.