



1) restricted connection dimension

All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

RPC-7 according to IEC 457-2  
RPC-2.40 mechanically compatible with RPC-1.85

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Coupling nut  
Dielectric

**Material**

CuBe  
Stainless steel  
Stainless steel  
PPE/PTFE

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Passivated  
Passivated

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 26 dB, DC to 18 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-7	≤ 1.0 mΩ
Outer contact resistance RPC-7	≤ 0.1 mΩ
Center contact resistance RPC-2.40	≤ 4.0 mΩ
Outer contact resistance RPC-2.40	≤ 2.5 mΩ
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

**Mechanical data**

Mating cycles RPC-2.40	≥ 500
Mating cycles RPC-7	≥ 5000
Center contact captivation	≥ 28 N
Coupling test torque RPC-7	1.95 Nm
Recommended torque RPC-7	1.36 Nm
Coupling test torque RPC-2.40	1.65 Nm
Recommended torque RPC-2.40	0.80 Nm to 1.10 Nm
Recommended torque ruggedized nut	1.36 Nm

**Environmental data**

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance 2002/95/EC (RoHS)	MIL-STD-202, Method 106 compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in box
Weight	80.5 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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