



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

Interface

RPC-7 according to
BNC according to

IEC 457-2
IEC 60169-8, MIL-PRF-39012, VG 95200, CECC 22120

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-7
Outer contact BNC
Coupling nut RPC-7
Bajonet ring BNC
Dielectric 1
Dielectric 2

Material

Beryllium copper
Beryllium copper
Stainless steel
Stainless steel
Brass
PPE
PTFE

Plating

Gold, min. 1.27 µm, over nickel
Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated
Nickel, 2.5-5 µm

**ADAPTOR
RPC-7 – BNC PLUG**

07P151-S00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 22 dB, DC to 4 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-7	≤ 1.0 mΩ
Outer contact resistance RPC-7	≤ 0.1 mΩ
Center contact resistance BNC	≤ 1.5 mΩ
Outer contact resistance BNC	≤ 1.0 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms

Mechanical data

Mating cycles RPC-7	≥ 5000
Mating cycles BNC	≥ 500
Center contact captivation	≥ 28 N
Coupling test torque RPC-7	1.95 Nm
Recommended torque RPC-7	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	51.3 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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