



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

Interface

RPC-7 according to IEC 457-2
BNC according to IEC 61169-8

Documents

N/A

Material and plating

Connector parts

Center contact	CuBe
Outer contact RPC-7	CuBe
Outer contact BNC	Stainless steel
Coupling nut RPC-7	Stainless steel
Bajonet ring BNC	Brass
Dielectric 1	PPE
Dielectric 2	PTFE

Plating

Center contact	Gold, min. 1.27 μm , over chemical nickel
Outer contact RPC-7	Gold, min. 1.27 μm , over chemical nickel
Outer contact BNC	Passivated
Coupling nut RPC-7	Passivated
Bajonet ring BNC	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 √f(GHz) dB
 Insulation resistance ≥ 5 GΩ
 Test voltage (at sea level) 1500 V rms
 Working voltage (at sea level) 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 MIL-STD-202, Method 106
 RoHS compliant

Tooling

N/A

Suitable cables

N/A

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
H. Babinger	06.08.04	F. Reiner	10.07.18	b01	18-1026	M. Ruf	06.07.18

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