



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

**Interface**

RPC-N according to  
RPC-SL

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402  
Interchangeable port connector system

**Documents**

N/A

**Material and plating**

Connector parts	Material	Plating
Center contact	Beryllium copper	Gold, min. 1.27 $\mu$ m, over chemical nickel
Outer contact RPC-N	Stainless steel	Passivated
Outer contact RPC-SL	Stainless steel	Gold, 0.1 $\mu$ m min.
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	

**ADAPTOR**  
**RPC-N 50 Ω JACK – RPC-SL PLUG**

05K104-S00S3

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 21 dB, DC to 18 GHz
Insertion loss	≤ 0.05 × √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-N	≤ 1.0 mΩ
Outer contact resistance RPC-N	≤ 1.0 mΩ
Center contact resistance RPC-SL	≤ 3.0 mΩ
Outer contact resistance RPC-SL	≤ 2.0 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 90 dB up to 1 GHz

**Mechanical data**

Mating cycles RPC-N	≥ 500
Mating cycles RPC-SL	≥ 3000
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Recommended torque RPC-SL	2 Nm

**Environmental data**

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
2002/95/EC (RoHS)	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in box
Weight	33.0 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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