



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

Interface

RPC-N according to
RPC-TNC according to

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402
IEC 60169-26

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric 1
Dielectric 2

Material

Beryllium copper
Stainless steel
Stainless steel
PPE
PTFE

Plating

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

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

05S106-K00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 20 dB, DC to 18 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ 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-TNC	≤ 1.5 mΩ
Outer contact resistance RPC-TNC	≤ 1.0 mΩ
Test voltage	1500 V rms
Working voltage	500 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Coupling test torque RPC-TNC	1.70 Nm
Recommended torque RPC-TNC	0.46 Nm to 0.69 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
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

55.3 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
Herbert Babinger	27.07.04	Martin Moder	27.01.16	d00	16-0128	Maik Knoll	27.01.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de		Page 2 / 2