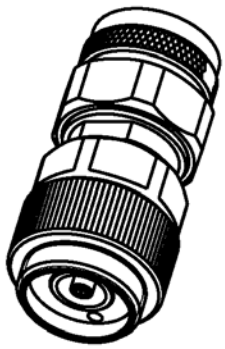
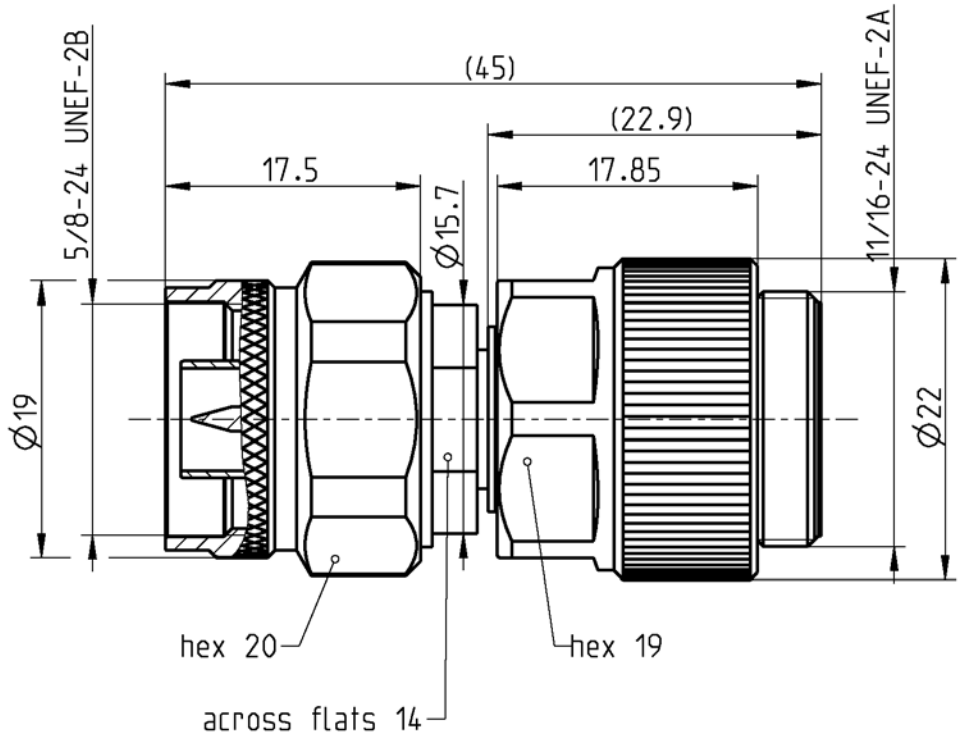
TECHNICAL DATA SHEET	Rosenberger®
ADAPTOR RPC-N 50 Ω PLUG – RPC-7	**05S107-P00S3**





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

Interface

RPC-N according to	IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402
RPC-7 according to	IEC 457-2

Documents

N/A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Outer contact RPC-N	Stainless steel	Passivated
Outer contact RPC-7	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	

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

TECHNICAL DATA SHEET	Rosenberger®
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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 18 GHz
Insertion loss	$\leq 0.08 \times \sqrt{f(GHz)}$ 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-7	≤ 1.0 mΩ
Outer contact resistance RPC-7	≤ 0.1 mΩ
Test voltage	2500 V rms
Working voltage	1000 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles RPC-N	≥ 500
Mating cycles RPC-7	≥ 5000
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-7	1.95 Nm
Recommended torque RPC-7	1.36 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	63.0 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
Herbert Babinger	27/07/04	H. Babinger	08.02.07

Rev.	Engineering change number	Name	Date
c00	07-0101	B. Dandl	08.02.07

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email: info@rosenberger.de