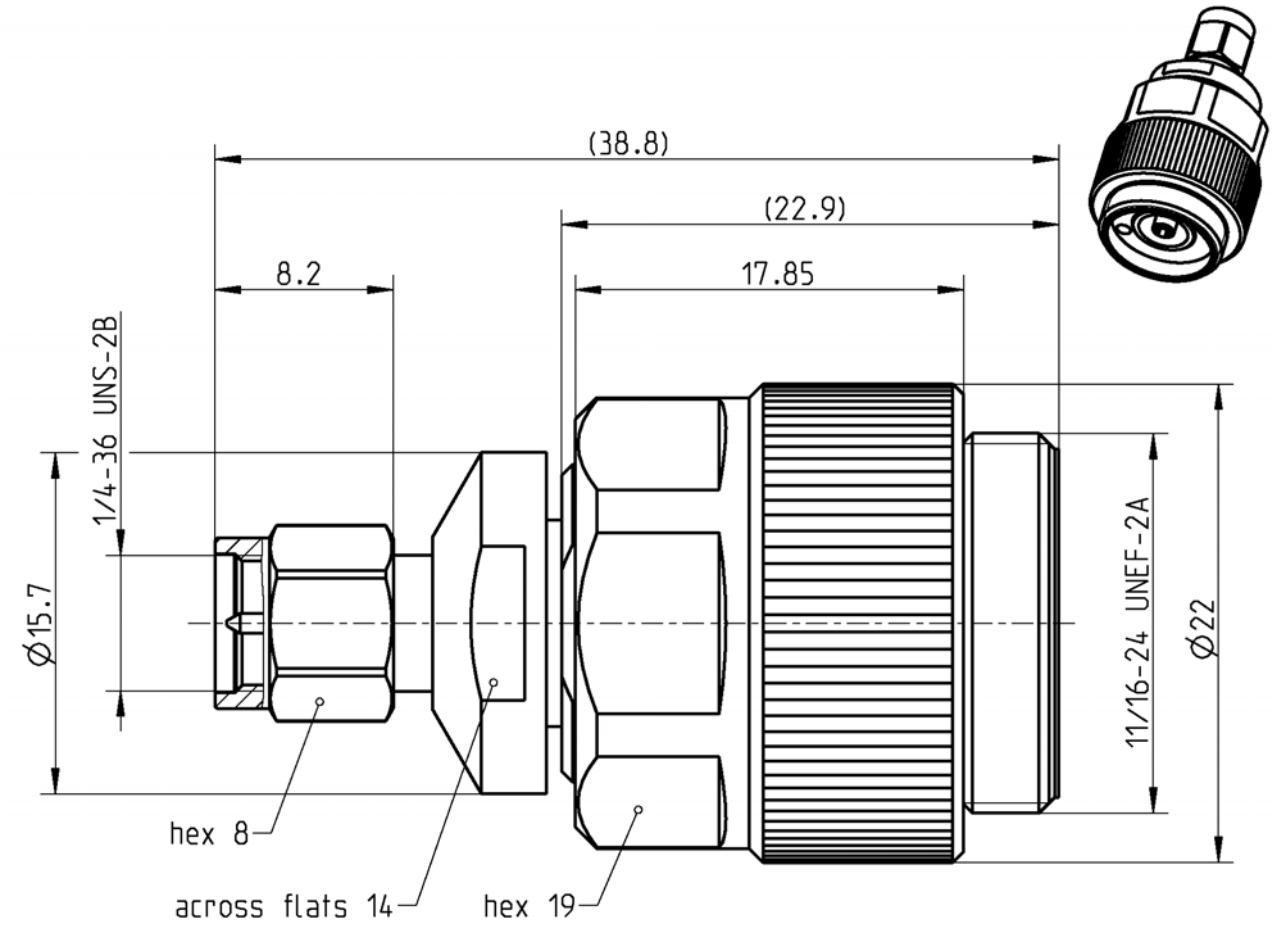
TECHNICAL DATA SHEET	Rosenberger®
ADAPTOR RPC-3.50 PLUG – RPC-7	**03S107-P00S3**



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

Interface

RPC-3.50 according to	IEC 60169-23
RPC-3.50 mechanically compatible with	RPC-2.92 and SMA
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-3.50	Stainless steel	Passivated
Outer contact RPC-7	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	
Gasket	Silicone	

RF_35/12.04/3.0

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 18 GHz
Insertion loss	≤ 0.04 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-3.50	≤ 3.0 mΩ
Outer contact resistance RPC-3.50	≤ 2.0 mΩ
Center contact resistance RPC-7	≤ 1.0 mΩ
Outer contact resistance RPC-7	≤ 0.1 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles RPC-7	≥ 5000
Center contact captivation	≥ 28 N
Coupling test torque RPC-3.50	1.70 Nm
Recommended torque RPC-3.50	0.80 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	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
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	44.3 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
Herbert Babinger	18/05/04	J. Krautenbacher	16/10/06

Rev.	Engineering change number	Name	Date
b00	06-0478	S. Huber-Siegl	16/10/06

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