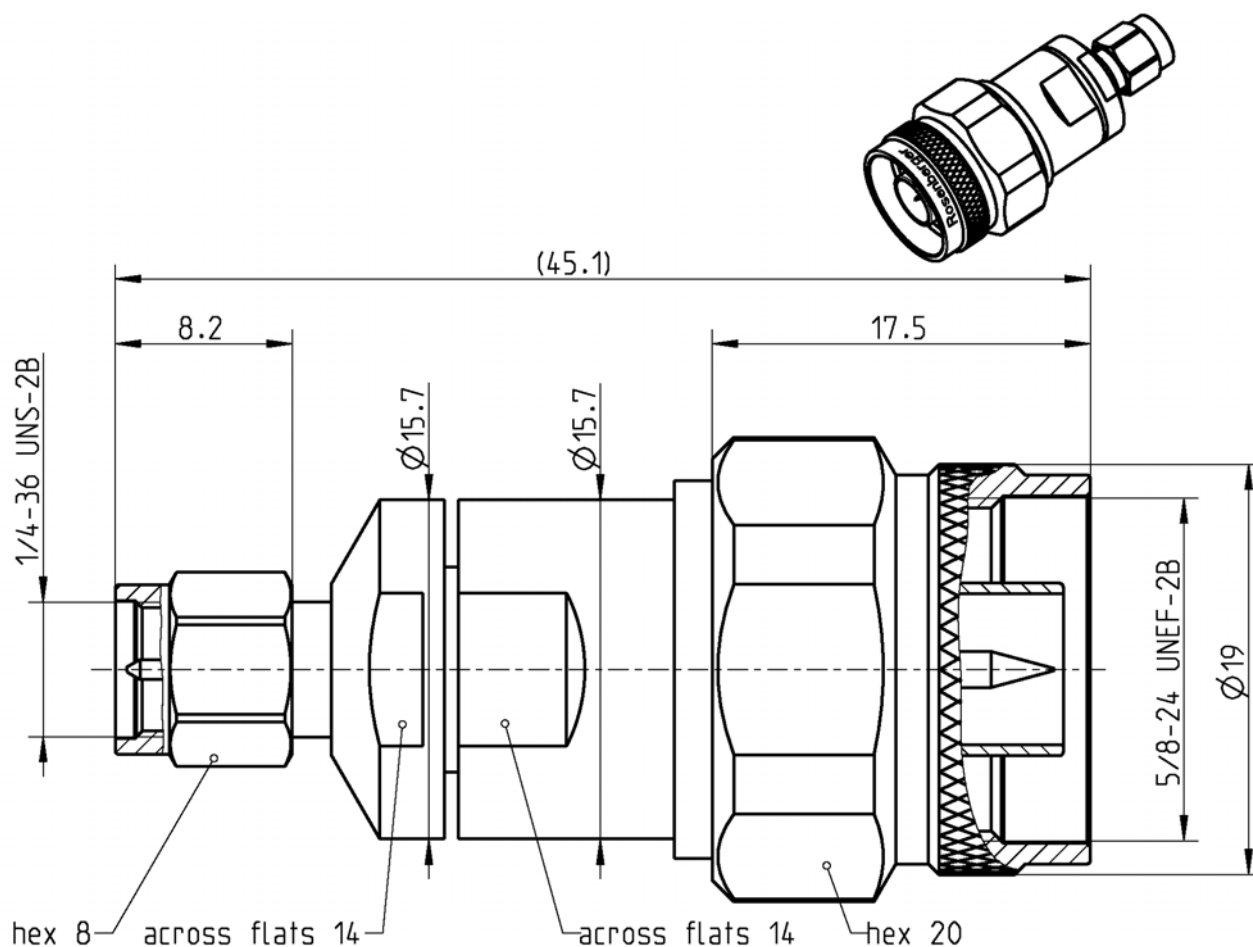




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 according to
 RPC-3.50 mechanically compatible with
 RPC-N

IEC 60169-23
 RPC-2.92 and SMA
 IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/304

Documents

N/A

Material and plating

Connector parts

Center contact
 Outer contact
 Coupling nut
 Dielectric
 Gasket

Material

Beryllium copper
 Stainless steel
 Stainless steel
 PPE
 Silicone

Plating

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

TECHNICAL DATA SHEET

Rosenberger®

ADAPTOR
RPC-3.50 PLUG – RPC-N 50 Ω PLUG

03S105-S00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 26 dB, DC to 18 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ 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-N	≤ 1.0 mΩ
Outer contact resistance RPC-N	≤ 1.0 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
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-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 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	43.6 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	17/05/04	J. Krautenbacher	16/10/06	b00	06-0478	S. Huber-Siegl	16/10/06
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