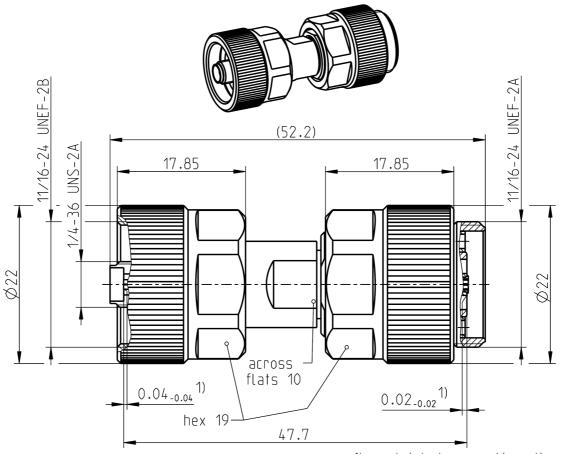
TECHNICAL DATA SHEET

Rosenberger

ADAPTOR RPC-2.92 JACK — RPC-7

02KR107-P0AS3



1) restricted connection dimension

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

Interface

RPC-2.92 mechanically compatible with RPC-7 according to

RPC-3.50 and SMA IEC 457-2

Documents

N/A

Material and plating

Connector partsCenter contact

Outer contact RPC-2.92
Outer contact RPC-7
Coupling nut
Dielectric

Material

CuBe Stainless steel CuBe Stainless steel PPE/PTFE

Plating

Gold, min. 1.27 μ m, over chemical nickel Passivated Gold, min. 1.27 μ m, over chemical nickel Passivated

RF_35/06.07/5.0

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Electrical data

Impedance 50 Ω

Frequency DC to 18 GHz

Return loss \geq 28 dB, DC to 18 GHz

Insertion loss $\leq 0.04 \text{ x} \sqrt{f(GHz)} dB$

Insulation resistance $\geq 5 \text{ G}\Omega$

 $\begin{array}{lll} \text{Center contact resistance RPC-2.92} & \leq 3.0 \text{ m}\Omega \\ \text{Outer contact resistance RPC-2.92} & \leq 2.0 \text{ m}\Omega \\ \text{Center contact resistance RPC-7} & \leq 1.0 \text{ m}\Omega \\ \text{Outer contact resistance RPC-7} & \leq 0.1 \text{ m}\Omega \\ \text{Test voltage} & 750 \text{ V rms} \\ \end{array}$

Working voltage 250 V rms RF-leakage \geq 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-2.92 ≥ 500 Mating cycles RPC-7 ≥ 5000 Center contact captivation $\geq 28 \text{ N}$ Coupling test torque RPC-2.921.70 Nm

Recommended torque RPC-2.92 0.80 Nm to 1.10 Nm

Coupling test torque RPC-7 1.95 Nm Recommended torque RPC-7 1.36 Nm Recommended torque ruggedized nut 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 80.3 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
Martin Moder	07/06/10	H. Babinger	26/05/11		b00	10-0825	T. Oberhauser	26/05/11
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