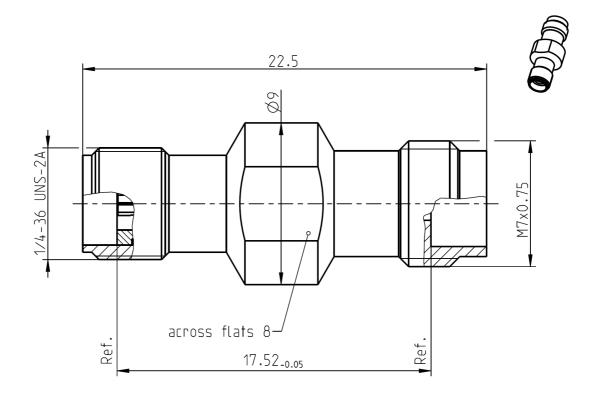
TECHNICAL DATA SHEET

Rosenberger[®]

ADAPTOR RPC-2.92 JACK – RPC-1.85 JACK

02K108-K00S3



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

Interface

RPC-2.92 according to RPC-2.92 mechanically compatible with

RPC-1.85 according to

RPC-1.85 mechanically compatible with

IEC 61169-35

RPC-3.50 and SMA

IEC 61169-32

RPC-2.40

Documents

N/A

Material and plating

Connector parts

Center contact Outer contact

Dielectric

Material

CuBe

Stainless steel

PS

Plating

Gold, min. 1.27 μm , over chemical nickel

Passivated

RF_35/12.04/3.0

TECHNICAL DATA SHEET



ADAPTOR RPC-2.92 JACK – RPC-1.85 JACK

02K108-K00S3

Electrical data

Impedance 50 Ω

Frequency DC to 40 GHz

Return loss ≥ 19 dB, DC to 40 GHz

Insertion loss $\leq 0.05 \text{ x} \sqrt{\text{f(GHz)}} \text{ dB}$

 $\begin{array}{ll} \text{Insulation resistance} & \geq 5 \text{ G}\Omega \\ \text{Center contact resistance RPC-2.92} & \leq 3.0 \text{ m}\Omega \\ \text{Outer contact resistance RPC-2.92} & \leq 2.0 \text{ m}\Omega \\ \text{Center contact resistance RPC-1.85} & \leq 4.0 \text{ m}\Omega \\ \text{Outer contact resistance RPC-1.85} & \leq 2.5 \text{ m}\Omega \\ \end{array}$

Test voltage 500 V rms Working voltage 150 V rms

RF-leakage ≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles ≥ 500 Center contact captivation $\geq 20 \text{ N}$ Coupling test torque RPC-2.921.70 Nm

Recommended torque RPC-2.92 0.80 Nm to 1.10 Nm

Coupling test torque RPC-1.85 1.65 Nm

Recommended torque RPC-1.85 0.80 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

RoHS compliant

Tooling

N/A

Suitable cables

N/A

Packing

Weight 4.6 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	06.12.04	Martin Moder	07.07.15		c00	15-0846	A. Youmsi Mouafo	07.07.15
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