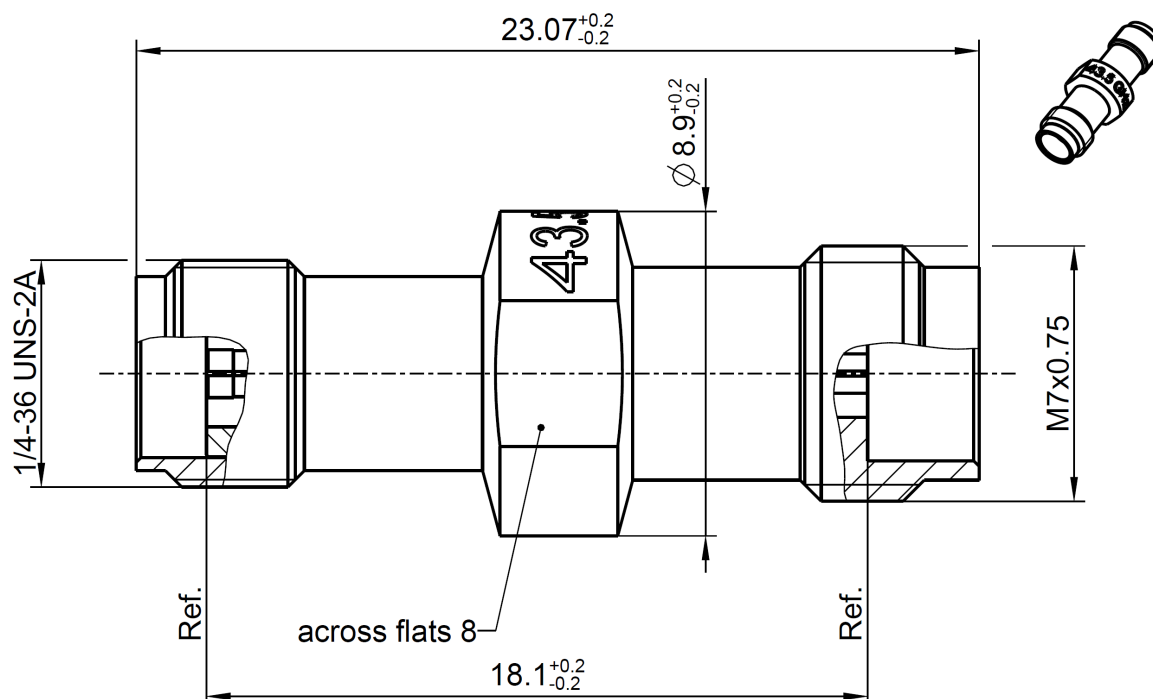


Technical Data Sheet

Rosenberger

RPC-2.92 Adaptor
RPC-2.40 Jack - Jack

02K109-K0BS3



All dimensions are in mm

Interface

RPC-2.92 according to
RPC-2.92 mechanically compatible with
RPC-2.40 according to
RPC-2.40 mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA
IEC 61169-40
RPC-1.85

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Stainless steel
TPX

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated

Technical Data Sheet

Rosenberger

RPC-2.92 Adaptor
RPC-2.40 Jack - Jack

02K109-K0BS3

Electrical data

Impedance 50 Ω
Frequency DC to 43.5 GHz
Return loss ≥ 28 dB, DC to 12 GHz
 ≥ 25 dB, 12 GHz to 26.5 GHz
 ≥ 18 dB, 26.5 GHz to 43.5 GHz
Insertion loss $\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance ≥ 5 G Ω
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 ≥ 20 N
Coupling test torque RPC-2.92 1.70 Nm
Recommended torque RPC-2.92 0.80 Nm to 1.10 Nm
Coupling test torque RPC-2.40 1.65 Nm
Recommended torque RPC-2.40 0.80 Nm to 1.10 Nm

Environmental data

Temperature range -40°C to +125°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

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
S. Andorfer	09.07.20	H. Babinger	30.07.24	a00	24-s209	M. Knoll	30.07.24

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