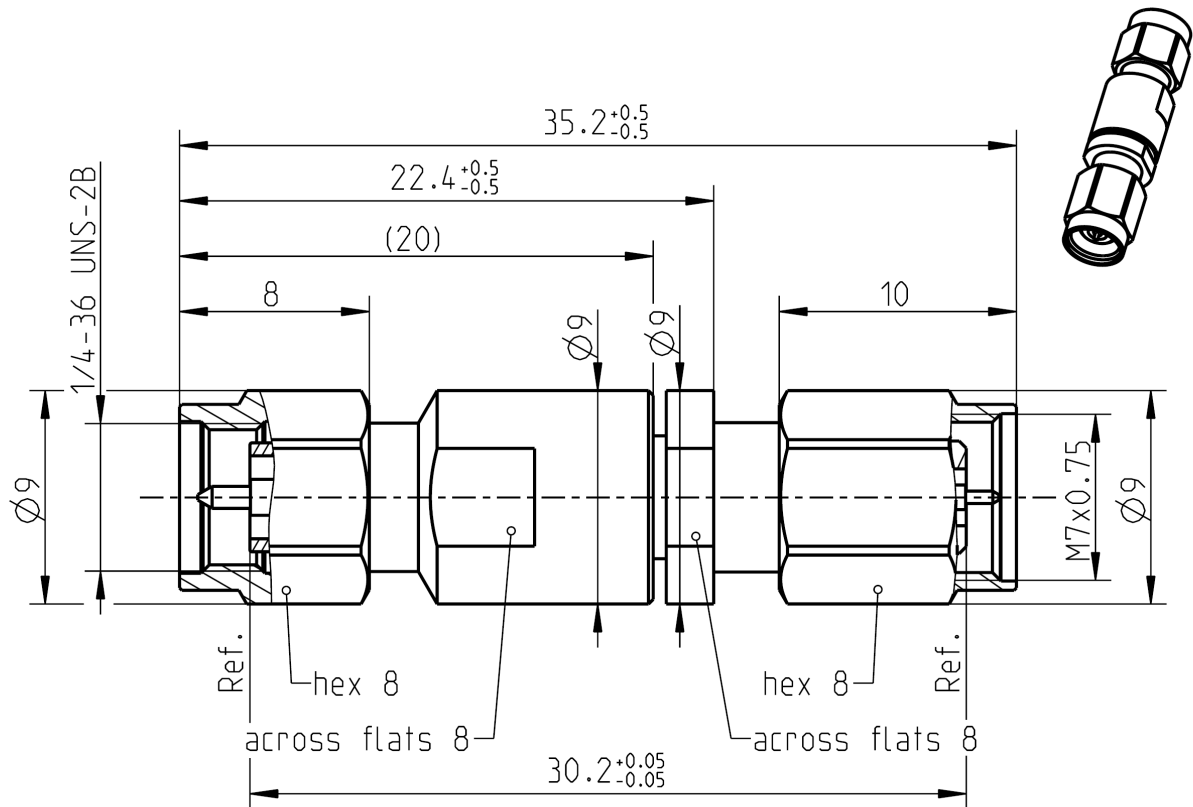




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-2.40 according to
RPC-2.40 mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA
IEC 61169-40
RPC-1.85

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric 1
Dielectric 2
Gasket

Material

CuBe
Stainless steel
Stainless steel
PS
PTFE
Silicone

Plating

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

TECHNICAL DATA SHEET

Rosenberger

ADAPTOR
RPC-3.50 PLUG – RPC-2.40 PLUG

03S109-S00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 23 dB, DC to 26.5 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-2.40	≤ 4.0 mΩ
Outer contact resistance RPC-2.40	≤ 2.5 mΩ
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	≥ 27 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-2.40	1.65 Nm
Recommended torque RPC-2.40	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

Standard	1 pce in box
Weight	10.8 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	19/05/04	Martin Moder	02/04/13	e00	13-0345	Manuela Fuehrich	02/04/13
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