

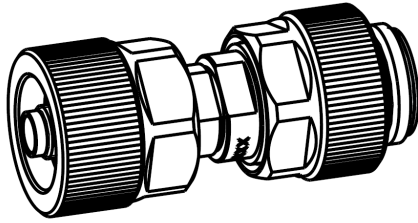
Technical Data Sheet

Rosenberger

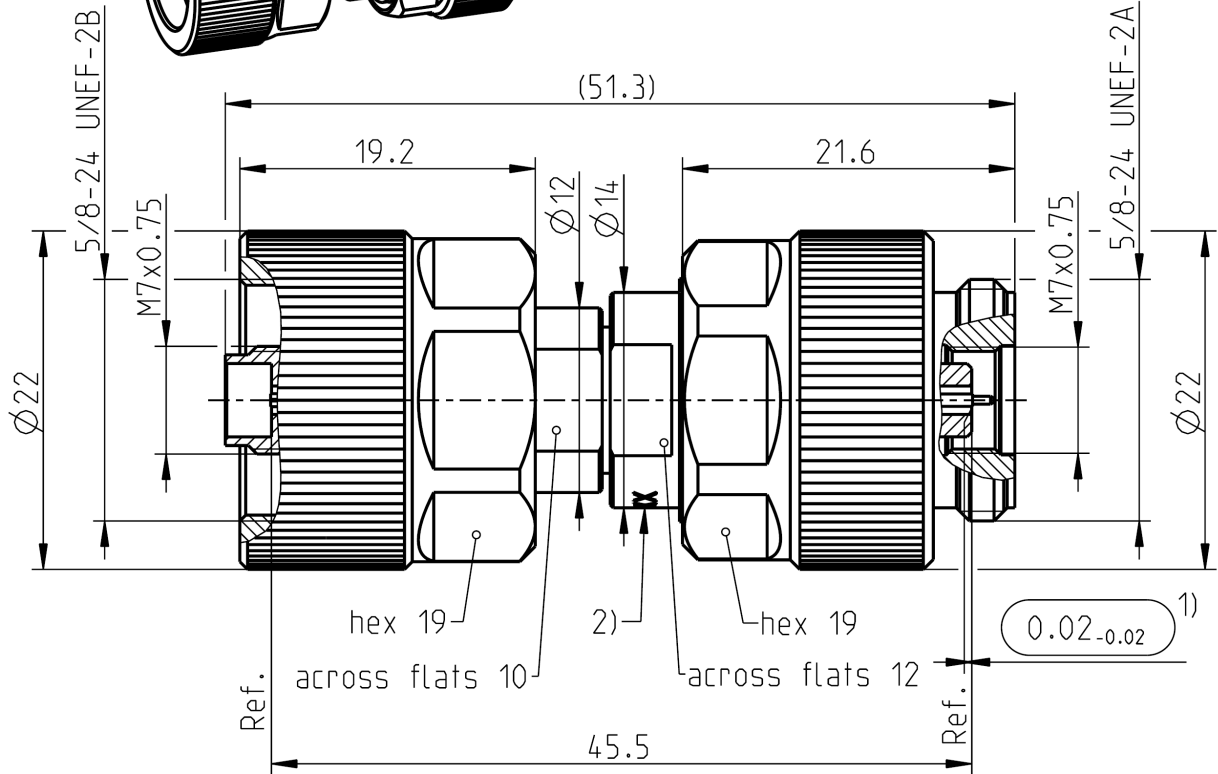
RPC-1.85

ADAPTOR
JACK – PLUG

08KR121-SR00S3



1) Restricted connection dimension.
2) Marking: DC to 70 GHz



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

Interface

According to IEC 61169-32
Mechanically compatible with RPC-2.40

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PEEK

Plating

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

Technical Data Sheet**Rosenberger**

RPC-1.85

**ADAPTOR
JACK – PLUG****08KR121-SR00S3****Electrical data**

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss	≥ 28 dB, DC to 18 GHz ≥ 21 dB, 18 GHz to 50 GHz ≥ 17 dB, 50 GHz to 70 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 4.0 mΩ
Outer contact resistance	≤ 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	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm
Recommended torque ruggedized nut	1.36 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	94.3 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	22/03/11	Roland Neuhauser	05/06/12	b00	12-0375	Maik Knoll	05/06/12

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Fax : +49 8684 18-499
Email : info@rosenberger.de

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