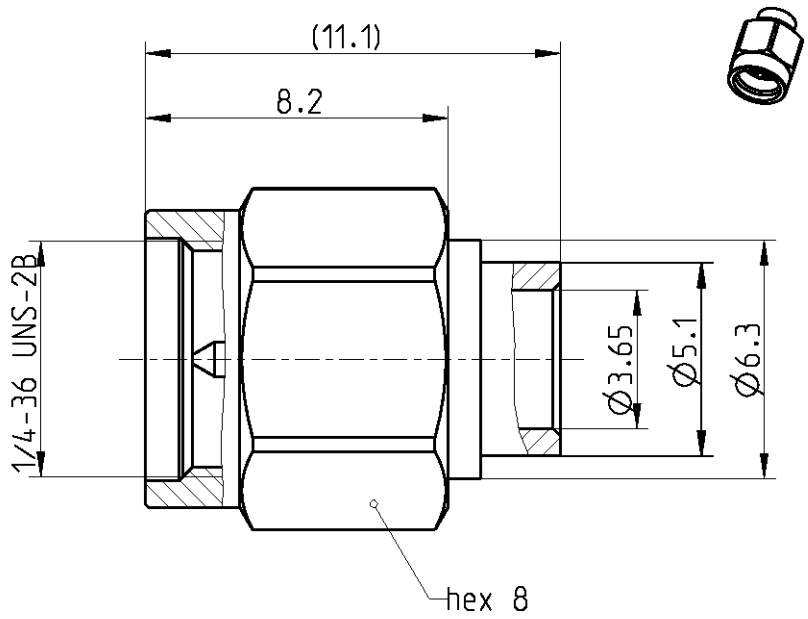
TECHNICAL DATA SHEET

Rosenberger®

RPC-2.92 STRAIGHT PLUG

02S141-272E4



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

Interface

According to	IEC 61169-35
Mechanically compatible with	RPC-3.50 and SMA

Documents

Assembly instruction	02 A7

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 0.8 µm, over chemical nickel
Outer contact	CuBe or equiv.	Gold, min. 0.8 µm, over chemical nickel
Coupling nut	Stainless steel	Passivated
Dielectric	PS	
Gasket	Silicone	

RF_35/12.04/3.0

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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RPC-2.92 STRAIGHT PLUG	**02S141-272E4**

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 30 dB, DC to 4 GHz ≥ 22 dB, 4 GHz to 32 GHz ≥ 20 dB, 32 GHz to 40 GHz
Insertion loss	$\leq 0.04 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Coupling test torque	1.70 Nm
Recommended torque	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

UT-141, RTK-Flex 402, UT-141-A-TP

Packing

Standard	1 pce in bag
Weight	2.6 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
Armin Maiwälder	30.07.08	H. Babinger	18.09.14

Rev.	Engineering change number	Name	Date
b00	14-0768	T. Oberhauser	18.09.14

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