



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-SL

IEC 61169-35  
RPC-3.50 and SMA  
Interchangeable port connector system

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact RPC-2.92
- Outer contact RPC-SL
- Coupling nut
- Dielectric

**Material**

- CuBe
- Stainless steel
- Stainless steel
- Stainless steel
- PEEK

**Plating**

- Gold, min. 1.27 µm, over chemical nickel
- Passivated
- Gold, 0.1 µm min.
- Passivated

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RF\_35/05.10/6.1

# Technical Data Sheet

# Rosenberger

Adaptor  
RPC-2.92 Plug – RPC-SL Plug

## 02S1P4-S0AS3

### Electrical data

Impedance	50 $\Omega$
Frequency	DC to 40 GHz
Return loss	$\geq 21$ dB, DC to 26.5 GHz $\geq 19$ dB, 26.5 GHz to 40 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 5$ G $\Omega$
Center contact resistance	$\leq 3.0$ m $\Omega$
Outer contact resistance	$\leq 2.0$ m $\Omega$
Test voltage	750 V rms
Working voltage	250 V rms
RF-leakage	$\geq 100$ dB up to 1 GHz

### Mechanical data

Mating cycles RPC-2.92	$\geq 500$
Mating cycles RPC-SL	$\geq 3000$
Center contact captivation	$\geq 22$ N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Recommended torque RPC-SL	2 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
Weight	26 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
Scherbauer M.	05.12.14	S. Andorfer	03.09.18	a00	18-s320	M. Knoll	03.09.18
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>						Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>	
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