



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<br>$\geq 19$ 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 | Herbert Babinger | 01.08.17 | 300  | 17-v521                   | Frank Tatzel   | 01.08.17      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |                  |          |      |                           | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> | Page<br>2 / 2 |