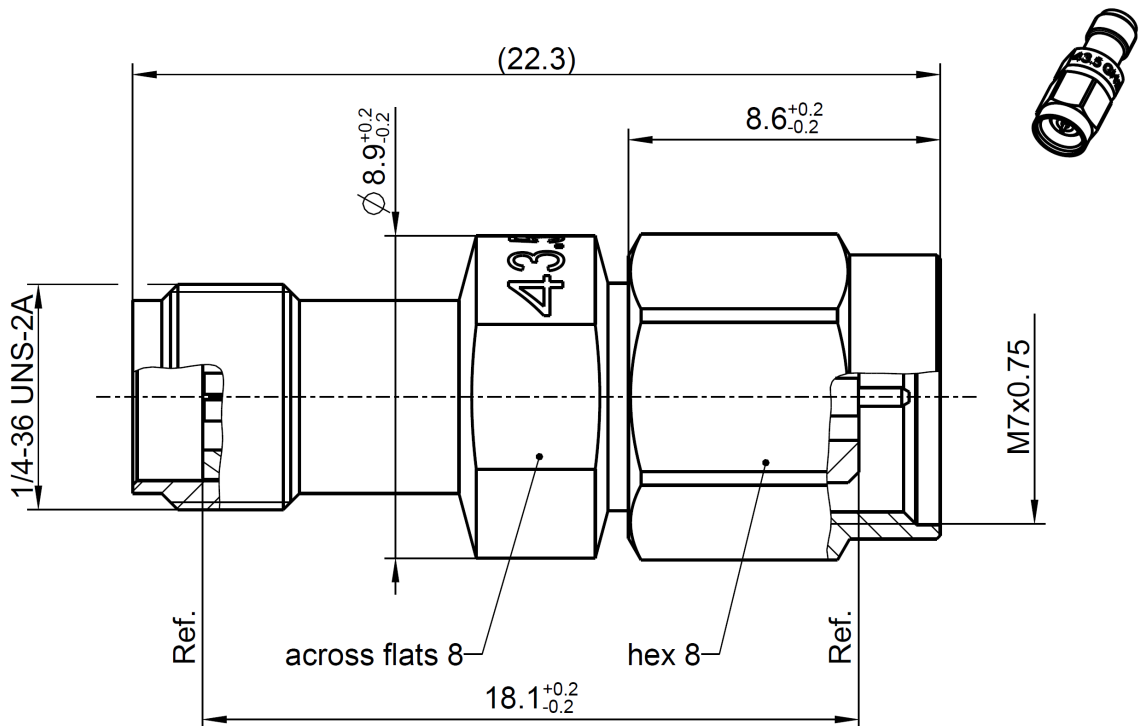


## Technical Data Sheet

# Rosenberger

RPC-2.92 Adaptor  
RPC-2.40 Jack - Plug

**02K109-S0BS3**



All dimensions are in mm

### Interface

RPC-2.92 according to  
RPC-2.92 mechanically compatible with  
RPC-2.40 according to  
RPC-2.40 mechanically compatible with

IEC 61169-35  
RPC-3.50 and SMA  
IEC 61169-40  
RPC-1.85

### Documents

N/A

### Material and plating

#### Connector parts

Center contact  
Outer contact  
Coupling nut  
Dielectric

#### Material

Beryllium copper  
Stainless steel  
Stainless steel  
TPX

#### Plating

Gold, min. 1.27  $\mu$ m, over chemical nickel  
Passivated  
Passivated

## Technical Data Sheet

# Rosenberger

RPC-2.92 Adaptor  
RPC-2.40 Jack - Plug

**02K109-S0BS3**

### Electrical data

|                       |                                    |
|-----------------------|------------------------------------|
| Impedance             | 50 Ω                               |
| Frequency             | DC to 43.5 GHz                     |
| Return loss           | ≥ 28 dB, DC to 12 GHz              |
|                       | ≥ 25 dB, 12 GHz to 26.5 GHz        |
|                       | ≥ 18 dB, 26.5 GHz to 43.5 GHz      |
| Insertion loss        | ≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 5 GΩ                             |
| 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 RPC-2.92 | 1.70 Nm            |
| Recommended torque RPC-2.92   | 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 +125°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

### Weight

5.2 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     |
|-------------|----------|-------------|----------|------|---------------------------|----------|----------|
| S. Andorfer | 09.07.20 | H. Babinger | 31.07.24 | a00  | 24-s209                   | M. Knoll | 31.07.24 |

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.de](http://www.rosenberger.de)

Tel.: +49 8684 18-0  
Email: [info@rosenberger.de](mailto:info@rosenberger.de)

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