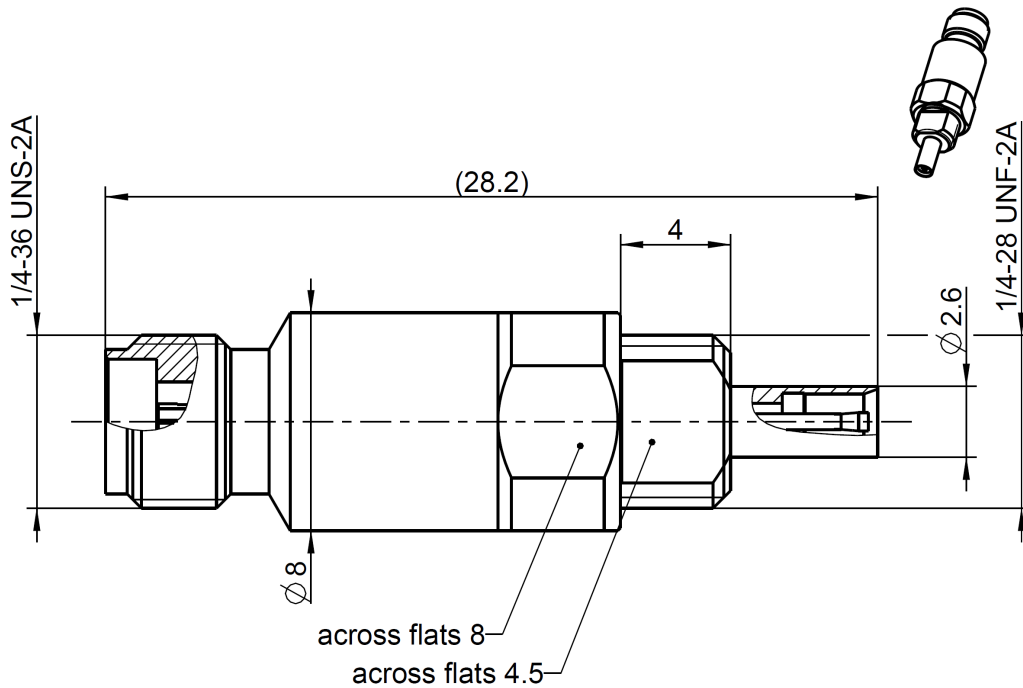


RPC-2.92 Adaptor  
RPC-2.92 JACK –  
Mini-Coax 40 GHz JACK

**02K123-K00S3**



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

**Interface**

According to  
Mechanically compatible with  
Mini-Coax according to

IEC 61169-35  
RPC-3.50 and SMA  
Rosenberger Mini-Coax

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric 1  
Dielectric 2

**Material**

CuBe  
Stainless steel  
PS  
PTFE

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Passivated

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RF\_35/05:10/6.0

**Technical Data Sheet****Rosenberger**

RPC-2.92 Adaptor  
 RPC-2.92 JACK –  
 Mini-Coax 40 GHz JACK

**02K123-K00S3****Electrical data**

|                                     |   |
|-------------------------------------|---|
| Impedance                           | 50 Ω  |
| Frequency                           | DC to 40 GHz  |
| Return loss                         | ≥ 26 dB, DC to 18 GHz<br>≥ 21 dB, 18 GHz to 26.5 GHz<br>≥ 15 dB, 26.5 GHz to 40 GHz |
| Insertion loss                      | ≤ 0.04 x √f(GHz) dB   |
| Insulation resistance               | ≥ 5 GΩ  |
| Center contact resistance RPC-2.92  | ≤ 3.0 mΩ  |
| Outer contact resistance RPC-2.92   | ≤ 2.0 mΩ  |
| Center contact resistance Mini-Coax | ≤ 10.0 mΩ   |
| Outer contact resistance Mini-Coax  | ≤ 3.0 mΩ  |
| Test voltage                        | 750 V rms   |
| Working voltage                     | 250 V rms   |
| RF-leakage                          | ≥ 80 dB @ DC to 1 GHz<br>≥ 60 dB @ 1GHz to 4 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<br>Mini-Coax | 0.80 Nm to 1.10 Nm |
| Engagement and disengagement force       | 1 N to 4 N         |

**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

**Weight**

Weight 7.1 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          |
|--|----------|--------------|----------|------|--|-------------|---------------|
| O.Krautenbacher  | 07/03/13 | Martin Moder | 26/02/19 | a00  | 19-s067  | Manfred Ruf | 26/02/19      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br>www.rosenberger.de |          |              |          |      | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : info@rosenberger.de |             | Page<br>2 / 2 |