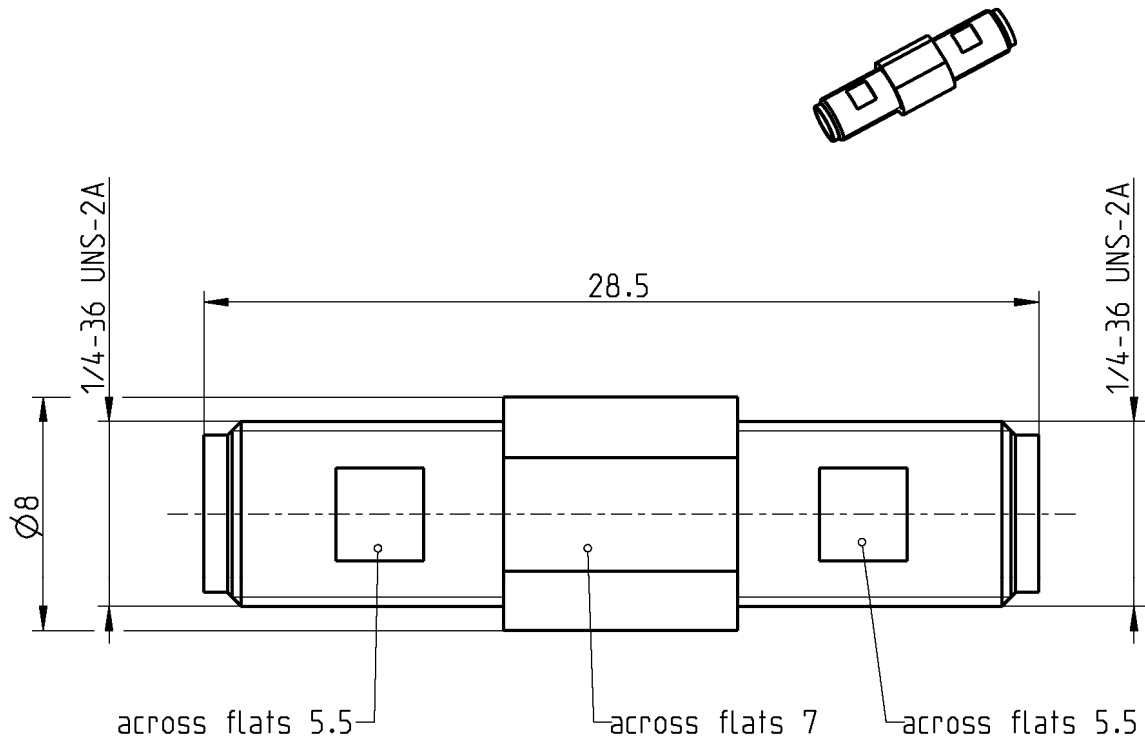




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to  
Mechanically compatible with

IEC 60169-23  
RPC-2.92 and SMA

#### Documents

N/A

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Dielectric

##### Material

Beryllium copper  
Stainless steel  
PS

##### Plating

Gold, min. 1.27 µm, over chemical nickel  
Passivated

# TECHNICAL DATA SHEET

**Rosenberger®**

RPC-3.50 ADAPTOR  
JACK - JACK

**03K121-K00S3**

## Electrical data

|                           |                                    |
|---------------------------|------------------------------------|
| Impedance                 | 50 Ω                               |
| Frequency                 | DC to 26.5 GHz                     |
| Return loss               | ≥ 26 dB, DC to 26.5 GHz            |
| Insertion loss            | ≤ 0.04 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance     | ≥ 5 GΩ                             |
| Center contact resistance | ≤ 3.0 mΩ                           |
| Outer contact resistance  | ≤ 2.0 mΩ                           |
| Test voltage              | 1000 V rms                         |
| Working voltage           | 335 V rms                          |
| RF-leakage                | ≥ 100 dB up to 1 GHz               |

## Mechanical data

|                            |                    |
|----------------------------|--------------------|
| Mating cycles              | ≥ 500              |
| Center contact captivation | ≥ 27 N             |
| 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              |
| 2002/95/EC (RoHS)   | compliant                            |

## Tooling

N/A

## Suitable cables

N/A

## Packing

|          |              |
|----------|--------------|
| Standard | 1 pce in box |
| Weight   | 6.2 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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------|--------------------------------------------------------------------------------------------------------------------|---------------------------|---------------|---------------|
| Herbert Babinger                                                                                                                                       | 11/05/04 | A. Maiwälder | 13/10/11 | c00                                                                                                                | 11-0951                   | T. Oberhauser | 13/10/11      |
| 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>Fax: +49 8684 18-499<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |               | Page<br>2 / 2 |

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