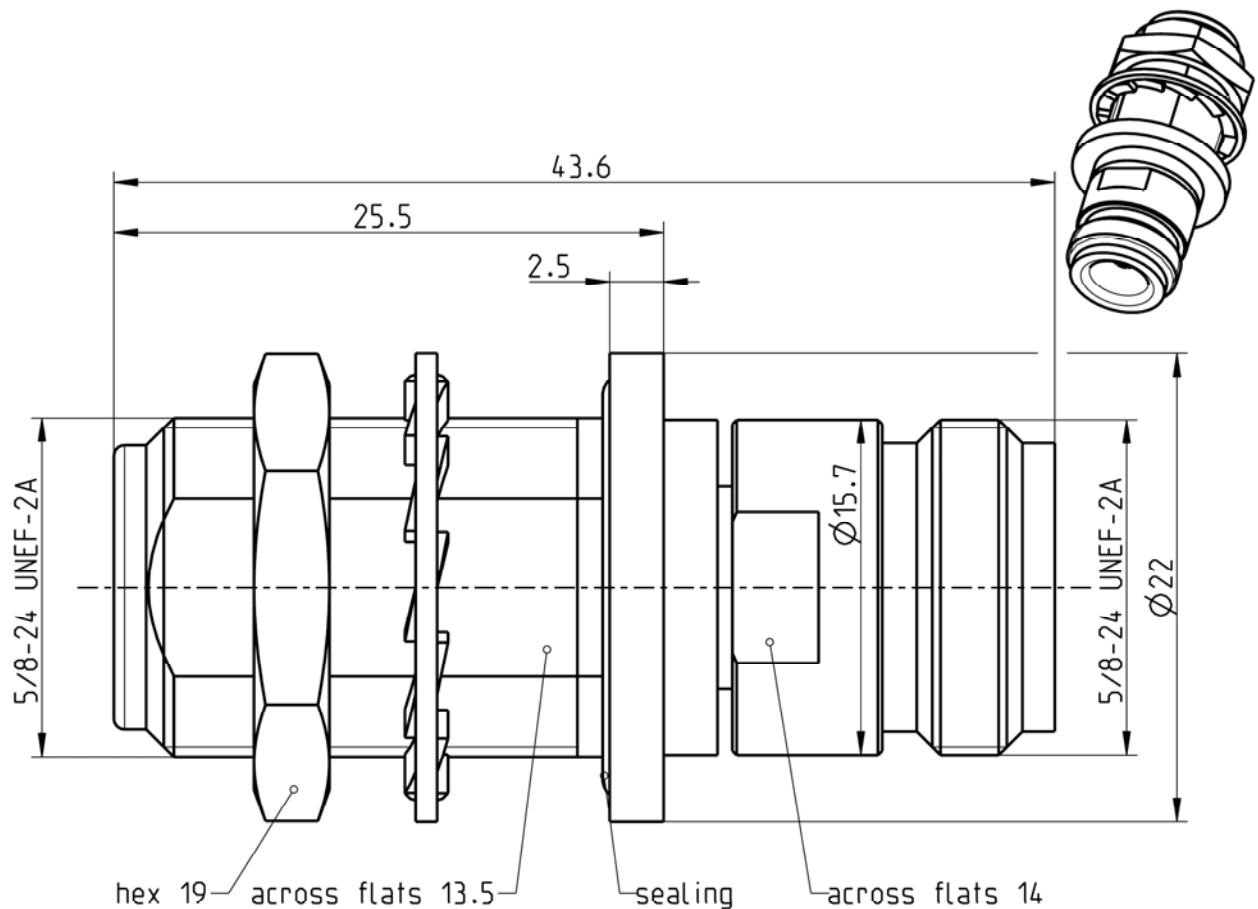




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402

#### Documents

Panel piercing

B 13

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Dielectric  
Gasket  
Hexagon nut  
Toothed lock washer

##### Material

Beryllium copper  
Stainless steel  
PPE  
NBR  
Brass  
Stainless steel

##### Plating

Gold, min. 1.27  $\mu$ m, over chemical nickel  
Passivated  
  
Nickel, 2.5-5  $\mu$ m  
Passivated

# TECHNICAL DATA SHEET

**Rosenberger®**

RPC-N 50 Ω ADAPTOR  
JACK - JACK

**05K521-K00S3**

## Electrical data

|                           |                       |
|---------------------------|-----------------------|
| Impedance                 | 50 Ω                  |
| Frequency                 | DC to 18 GHz          |
| Return loss               | ≥ 26 dB, DC to 18 GHz |
| Insertion loss            | ≤ 0.05 x √f(GHz) dB   |
| Insulation resistance     | ≥ 5 GΩ                |
| Center contact resistance | ≤ 1.0 mΩ              |
| Outer contact resistance  | ≤ 1.0 mΩ              |
| Test voltage              | 2500 V rms            |
| Working voltage           | 1000 V rms            |
| RF-leakage                | ≥ 90 dB up to 1 GHz   |

## Mechanical data

|                            |                    |
|----------------------------|--------------------|
| Mating cycles              | ≥ 500              |
| Center contact captivation | ≥ 28 N             |
| Coupling test torque       | 1.70 Nm            |
| Recommended torque         | 0.70 Nm to 1.10 Nm |

## Environmental data

|                     |                               |
|---------------------|-------------------------------|
| Temperature range   | -40°C to +85°C                |
| Thermal shock       | IEC 61169-1, Subclause 9.4.4  |
| Corrosion           | IEC 61169-1, Subclause 9.4.6  |
| Vibration           | IEC 61169-1, Subclause 9.3.3  |
| Shock               | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance | IEC 61169-1, Subclause 9.4.3  |
| 2002/95/EC (RoHS)   | compliant                     |

## Tooling

N/A

## Suitable cables

N/A

## Packing

|          |              |
|----------|--------------|
| Standard | 1 pce in box |
| Weight   | 55.2 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                                                                                                                                       | 19/10/06 | H. Babinger | 08.02.07 | b00  | 07-0101                                                                                                            | B. Dandl | 08.02.07      |
| 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 |