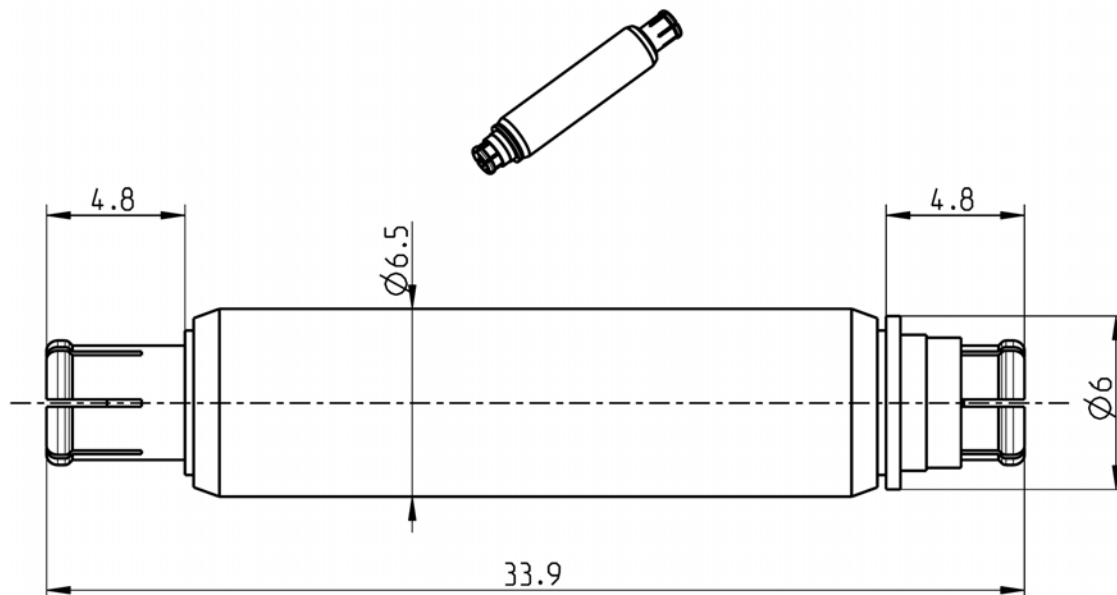


## Technical Data Sheet

**Rosenberger**

P-SMP ADAPTOR

**119K104-K00N5**

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

**Interface**

According to

Rosenberger P-SMP

**Documents**

N/A

**Material and plating****Connector parts**

Center contact  
Outer contact  
Body  
Dielectric

**Material**

CuBe  
CuBe  
Brass  
PTFE

**Plating**

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)  
White bronze(e.g. Optalloy®)

## Technical Data Sheet

# Rosenberger

P-SMP ADAPTOR

119K104-K00N5

### Electrical data

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Impedance                                      | 50 Ω                               |
| Frequency                                      | DC to 10 GHz                       |
| Return loss                                    | ≥ 30 dB, DC to 2 GHz               |
|                                                | ≥ 27 dB, 2 to 4 GHz                |
|                                                | ≥ 24 dB, 4 to 6 GHz                |
| Insertion loss                                 | ≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance                          | ≥ 5 GΩ                             |
| Center contact resistance                      | ≤ 3.0 mΩ                           |
| Outer contact resistance                       | ≤ 2.0 mΩ                           |
| Test voltage (at sea level)                    | 1000 V rms                         |
| Working voltage (at sea level)                 | 480 V rms                          |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2.2 GHz                  |
| Intermodulation (3 <sup>rd</sup> order)        | ≥ 160 dBc (2 x 43 dBm)             |

### Mechanical data

|                                              |         |
|----------------------------------------------|---------|
| Mating cycles                                |         |
| if mating part is Smooth bore, Catchers mitt | ≥ 1000  |
| if mating part is Limited detent             | ≥ 100   |
| if mating part is Full detent                | ≥ 100   |
| Center contact captivation                   | ≥ 7 N   |
| Engagement force                             |         |
| - Smooth bore, Catchers mitt                 | ≤ 10 N  |
| - Limited detent                             | ≤ 45 N  |
| - Full detent                                | ≤ 68 N  |
| Disengagement force                          |         |
| - Smooth bore, Catchers mitt                 | ≥ 2.2 N |
| - Limited detent                             | ≥ 15 N  |
| - Full detent                                | ≥ 25 N  |
| Permissible angular misalignment             | 2°      |

### Environmental data

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Temperature range           | -65°C to +165°C                                 |
| Rapid change of temperature | IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)  |
| Vibration                   | IEC 60068-2-64 random                           |
| Shock                       | IEC 60068-2-27 (half-sine)                      |
| High temperature endurance  | IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours) |
| 2002/95/EC (RoHS)           | compliant                                       |

### Weight

|        |          |
|--------|----------|
| Weight | 4.2 g/pc |
|--------|----------|

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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|----------|--------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|---------------|
| Gramsamer Josef                                                                                                                                        | 25.03.09 | Sa. Krautenbacher | 10.03.14 | c00                                                                                                                | 14-0352                   | T. Krojer | 10.03.14      |
| 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 |