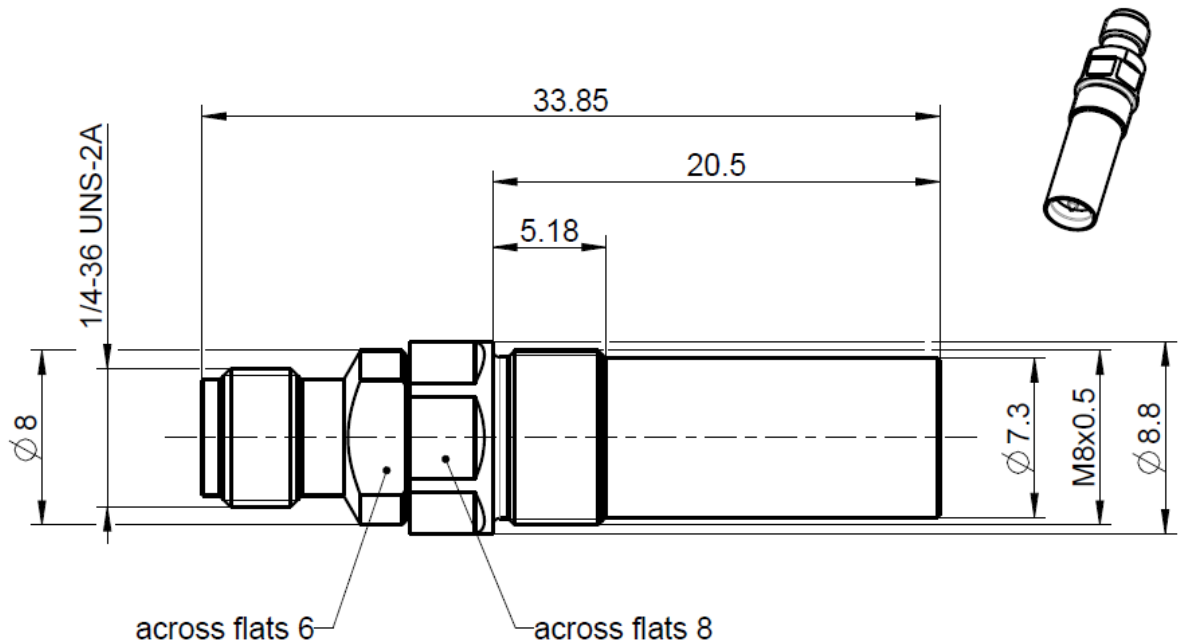


**ADAPTOR**

RPC-3.50 female – MQ4/MQ5 (single) female

**03K1MQ4-K00S3**



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

**Interface**

|                                       |                  |
|---------------------------------------|------------------|
| RPC-3.50 according to                 | IEC 60169-23     |
| RPC-3.50 mechanically compatible with | RPC-2.92 and SMA |
| MQ4/MQ5 according to                  | IEC 63138        |

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
 Outer contact  
 Dielectric 1 (RPC-3.50 side)  
 Dielectric 2 (MQ4/MQ5 side)

**Material**

CuBe  
 Stainless steel  
 COP  
 PTFE

**Plating**

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

**ADAPTOR**

RPC-3.50 female – MQ4/MQ5 (single) female

**03K1MQ4-K00S3**

**Electrical data**

|                                |  |
|--------------------------------|--|
| Impedance                      | 50 Ω   |
| Frequency                      | DC to 6 GHz  |
| Return loss                    | ≥ 36 dB, DC to 2 GHz<br>≥ 34 dB, 2 GHz to 4 GHz<br>≥ 28 dB, 4 GHz to 6 GHz |
| Insertion loss                 | ≤ 0.05 x √f(GHz)dB   |
| Insulation resistance          | ≥ 5 GΩ   |
| Proof voltage (at sea level)   | 1000 V rms   |
| Working voltage (at sea level) | 335 V rms  |
| RF-leakage                     | ≥ 100 dB up to 1 GHz   |

**Mechanical data**

|                                      |                    |
|--------------------------------------|--------------------|
| Mating cycles RPC-3.50               | ≥ 500              |
| Mating cycles MQ4/MQ5                | ≥ 1000             |
| Center contact captivation: axial    | ≥ 27 N             |
| Coupling test torque RPC-3.50        | 1.70 Nm            |
| Coupling torque recommended RPC-3.50 | 0.80 Nm to 1.10 Nm |

**Environmental data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -40 °C to +85 °C                |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. D |
| Shock               | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Notes**

|                      |                                |
|----------------------|--------------------------------|
| Replacement part for | 03K1MQ4-K01S3<br>03K1MQ5-K01S3 |
|----------------------|--------------------------------|

**Weight**

7.7 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RFB00035/12.20/6.4

|           |          |             |          |      |                           |           |          |
|-----------|----------|-------------|----------|------|---------------------------|-----------|----------|
| Draft     | Date     | Approved    | Date     | Rev. | Engineering change number | Name      | Date     |
| F. Reiner | 23.03.20 | H. Babinger | 17.02.22 | d00  | 22-0171                   | J.Rohloff | 17.02.22 |

|  |  |  |  |  |  |  |               |
|--|--|--|--|--|--|--|---------------|
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.com">www.rosenberger.com</a> |  |  |  |  | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a> |  | Page<br>2 / 2 |
|--|--|--|--|--|--|--|---------------|