



<sup>1)</sup> restricted connection dimension

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

**Interface**

RPC-3.50 according to  
RPC-3.50 mechanically compatible with  
RPC-N according to

IEC 60169-23  
RPC-2.92 and SMA  
IEC 61169-16; MIL-STD 348A/402

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Coupling nut  
Dielectric

**Material**

CuBe  
Stainless steel  
Stainless steel  
PPE

**Plating**

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

Adaptor  
RPC-3.50 jack – RPC-N 50 Ω jack

**03KR105-K0AS3**

**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                |
| Test voltage (at sea level)    | 1000 V rms            |
| Working voltage (at sea level) | 335 V rms             |
| RF-leakage                     | ≥ 90 dB up to 1 GHz   |

**Mechanical data**

|                                   |                    |
|-----------------------------------|--------------------|
| Mating cycles                     | ≥ 500              |
| Center contact captivation        | ≥ 28 N             |
| Coupling test torque RPC-3.50     | 1.70 Nm            |
| Recommended torque RPC-3.50       | 0.80 Nm to 1.10 Nm |
| Coupling test torque RPC-N        | 1.70 Nm            |
| Recommended torque RPC-N          | 0.70 Nm to 1.10 Nm |
| Recommended torque ruggedized nut | 1.36 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              |
| RoHS                | compliant                            |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

60.0 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     |
| M. Moder | 10.08.10 | F. Reiner | 02.07.18 | a01  | 18-1026                   | M. Ruf | 29.06.18 |

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