



1) restricted connection dimension

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

**Interface**

According to  
Mechanically compatible with

IEC 61169-35  
RPC-3.50 and SMA

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Coupling nut  
Dielectric

**Material**

CuBe  
Stainless steel  
Stainless steel  
PEEK

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Passivated  
Passivated

RPC-2.92 ADAPTOR  
JACK - PLUG

**02KR121-S0AS3**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 40 GHz  
 Return loss ≥ 26 dB, DC to 26.5 GHz  
 ≥ 23 dB, 26.5 GHz to 40 GHz  
 Insertion loss ≤ 0.04 x √f(GHz) dB  
 Insulation resistance ≥ 5 GΩ  
 Center contact resistance ≤ 3.0 mΩ  
 Outer contact resistance ≤ 2.0 mΩ  
 Test voltage 750 V rms  
 Working voltage 250 V rms  
 RF-leakage ≥ 100 dB up to 1 GHz

**Mechanical data**

Mating cycles ≥ 500  
 Center contact captivation ≥ 20 N  
 Coupling test torque 1.70 Nm  
 Recommended torque 0.80 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**

38.6 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	17.09.09	Martin Moder	04.12.15	c00	15-1421	Maik Knoll	04.12.15
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2