



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

**Interface**

RPC-3.50 according to  
RPC-3.50 mechanically compatible with  
EBC ® according to

IEC 60169-23  
RPC-2.92 and SMA  
Rosenberger EBC ®

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Flange
- Dielectric RPC-3.50 side
- Dielectric EBC ® side

**Material**

- CuBe or equiv.
- Stainless steel
- Brass
- PS
- PTFE

**Plating**

- Gold, min. 1.27 µm, over chemical nickel
- Passivated
- Flash white bronze over silver(e.g. Optargen®)

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FLOATING ADAPTOR  
RPC-3.50 jack – EBC ® plug smooth bore

**03K7EBC-S22S3**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 6 GHz  
 Return loss ≥ 30 dB, DC to 2.5 GHz  
 ≥ 25 dB, 2.5 GHz to 6 GHz  
 Insertion loss ≤ 0.04 x √f(GHz) dB  
 Insulation resistance ≥ 5 GΩ  
 Test voltage 500 V rms  
 Working voltage 335 V rms

**Mechanical data**

Mating cycles RPC-3.50 ≥ 500  
 Mating cycles EBC ® smooth bore ≥ 5.000  
 Center contact captivation ≥ 27 N  
 Coupling test torque RPC-3.50 1.70 Nm  
 Recommended torque RPC-3.50 0.80 Nm to 1.10 Nm  
 Engagement force EBC ® ≤ 15 N  
 Disengagement force EBC ® ≥ 12 N  
 Misalignment radial 0.7 mm min.  
 Spring force min. 2.4 N at rest  
 max. 36 N at max. spring travel  
 Spring travel 9 mm max.

**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**

11.5 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
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