



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 |
|--|----------|--------------|----------|------|---------------------------|--|---------------|
| Herbert Babinger | 09.08.19 | Martin Moder | 01.07.20 | a00 | 20-s140 | A. Youmsi | 01.07.20 |
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