



for glass-bead of 0.3 mm pin diameter

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

**Interface**

According to IEC 61169-35  
Mechanically compatible with RPC-3.50 and SMA

**Documents**

Test procedure PV\_M\_0131  
Assembly instruction 02 E

**Material and plating**

**Connector parts**

Center contact  
Outer contact RPC-2.92  
Outer contact hermetical side  
Dielectric

**Material**

CuBe  
Stainless steel  
Brass  
PS

**Plating**

AuroDur®, gold plated  
Passivated  
AuroDur®, gold plated

**Electrical data**

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss <sup>1)</sup>	≥ 23 dB, DC to 34 GHz ≥ 19 dB, 34 GHz to 40 GHz
Reflection coefficient (TDR) <sup>2)</sup>	Step response max. ± 15 mU
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

1) measured including measuring adaptor 02K122-900S3

2) measured with "time domain low-pass mode" including measuring adaptor 02K122-900S3

**Mechanical data**

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Coupling torque hermetical side	1.70 Nm 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
2002/95/EC (RoHS)	compliant

**Tooling**

Measuring adaptor	02K122-900S3
Soldering fixture	02W001-000
Mounting wrench	02W007-000

**Suitable glass bead**

Glass bead	02Z101-000
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**Packing**

Standard	100 pcs in blister
Weight	1.5 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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