



for glass-bead of 0.24mm pin diameter.

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

**Interface**

According to IEC 61169-32  
Mechanically compatible with RPC-2.40

**Documents**

Assembly instruction 08 E

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Outer contact hermetical side  
Dielectric

**Material**

CuBe  
Stainless steel  
CuBe  
PS

**Plating**

AuroDur®, gold plated  
Passivated  
AuroDur®, gold plated

RPC-1.85

Launcher jack  
for glassbead

**08K524-800S5**

**Electrical data**

|                              |   |
|------------------------------|---|
| Impedance                    | 50 Ω  |
| Frequency                    | DC to 70 GHz  |
| Return loss <sup>1)</sup>    | ≥ 25 dB, DC to 26.5 GHz<br>≥ 19 dB, 26.5 GHz to 50 GHz<br>≥ 16.5 dB, 50 GHz to 70 GHz |
| Reflection coefficient (TDR) | Step response max. ± 20 mU  |
| Insertion loss               | ≤ 0.05 x √f(GHz) dB   |
| Insulation resistance        | ≥ 5 GΩ  |
| Center contact resistance    | ≤ 4.0 mΩ  |
| Outer contact resistance     | ≤ 2.5 mΩ  |
| Test voltage                 | 500 V rms   |
| Working voltage              | 150 V rms   |
| RF-leakage                   | ≥ 100 dB up to 1 GHz  |

- 1) Measured including measuring adaptor 08K121-900S3
- 2) Measured with "time domain low-pass mode" including measuring adaptor 08K121-900S3

**Mechanical data**

|                            |                    |
|----------------------------|--------------------|
| Mating cycles              | ≥ 500              |
| Center contact captivation | ≥ 20 N             |
| Coupling test torque       | 1.65 Nm            |
| Recommended torque         | 0.80 Nm to 1.10 Nm |

**Environmental data**

|                     |                               |
|---------------------|-------------------------------|
| Temperature range   | -40°C to +85°C                |
| Thermal shock       | IEC 61169-1, Subclause 9.4.4  |
| Corrosion           | IEC 61169-1, Subclause 9.4.6  |
| Vibration           | IEC 61169-1, Subclause 9.3.3  |
| Shock               | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance | IEC 61169-1, Subclause 9.4.3  |
| RoHS                | compliant                     |

**Tooling**

|                   |              |
|-------------------|--------------|
| Measuring adaptor | 08K121-900S3 |
| Soldering fixture | 08W001-000   |
| Mounting wrench   | 08W003-000   |

**Suitable glass bead**

|            |            |
|------------|------------|
| Glass bead | 08Z101-000 |
| Glass bead | 08Z101-00A |

**Weight**

2.0 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     |
|------------------|----------|------------------|----------|------|---------------------------|------------------|----------|
| Herbert Babinger | 04.10.11 | Armin Maiwalder | 09.06.16 | c00  | 16-0881                   | A. Youmsi Mouafo | 09.06.16 |

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