



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

Technical Data Sheet

Rosenberger

RPC-1.85

Launcher jack
for glassbead

08K524-800S5

Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss ¹⁾	≥ 25 dB, DC to 26.5 GHz ≥ 19 dB, 26.5 GHz to 50 GHz ≥ 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 adapter 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

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	07.01.20	d00	19-2430	S. Schmid	03.01.20

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Fax : +49 8684 18-499
Email : info@rosenberger.de

Page
2 / 2