



1) restricted connection dimension

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

Interface

Mechanically compatible with RPC-1.85

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PEEK

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated

RPC-2.40 ADAPTOR
JACK - PLUG

09KR121-SR00S3

Electrical data

Impedance 50 Ω
 Frequency DC to 50 GHz
 Return loss ≥ 26 dB, DC to 26.5 GHz
 ≥ 23 dB, 26.5 GHz to 50 GHz
 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

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
 Recommended torque ruggedized nut 1.36 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
 2002/95/EC (RoHS) compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard 1 pce in box
 Weight 98.0 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
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Page

2 / 2