



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

Interface

RPC-2.40 according to
RPC-2.40 mechanically compatible with
RPC-SL

IEC 61169-40
RPC-1.85
Interchangeable port connector system

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-2.40
Outer contact RPC-SL
Coupling nut RPC-SL
Dielectric

Material

CuBe
Stainless steel
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Gold, 0.1 µm min.
Passivated

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RF_35/05.10/6.1

Technical Data Sheet

Rosenberger

Adaptor
RPC-2.40 Jack – RPC-SL Plug

09K1P4-S0AS3

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 21 dB, DC to 26.5 GHz ≥ 19 dB, 26.5 GHz to 40GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance RPC-2.40	≤ 4.0 m Ω
Outer contact resistance RPC-2.40	≤ 2.5 m Ω
Center contact resistance RPC-SL	≤ 3.0 m Ω
Outer contact resistance RPC-SL	≤ 2.0 m Ω
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-2.40	≥ 500
Mating cycles RPC-SL	≥ 3000
Center contact captivation	≥ 22 N
Coupling test torque RPC-2.40	1.65 Nm
Recommended torque RPC-2.40	0.80 Nm to 1.10 Nm
Recommended torque RPC-SL	2 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

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	25 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
Scherbauer M.	05.12.14	Herbert Babinger	07.09.18	a00	18-s320	M. Knoll	07.09.18

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