



1) restricted connection dimension

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

Interface

RPC-2.92 mechanically compatible with RPC-3.50 and SMA
 RPC-2.40 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 μ m, over chemical nickel
 Passivated
 Passivated

ADAPTOR
RPC-2.40 JACK – RPC-2.92 JACK
09KR102-K0AS3**Electrical data**

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 40 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance RPC-2.92	≤ 3.0 m Ω
Outer contact resistance RPC-2.92	≤ 2.0 m Ω
Center contact resistance RPC-2.40	≤ 4.0 m Ω
Outer contact resistance RPC-2.40	≤ 2.5 m Ω
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	≥ 27 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Coupling test torque RPC-2.40	1.65 Nm
Recommended torque RPC-2.40	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	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 2002/95/EC (RoHS)	MIL-STD-202, Method 106 compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	43.3 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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