



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

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-SL

IEC 60169-23
RPC-2.92 and SMA
Interchangeable port connector system

Documents

N/A

Material and plating

Connector parts

- Center contact
- Outer contact RPC-3.50
- Outer contact RPC-SL
- Coupling nut
- 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-3.50 Jack – RPC-SL Plug

03K104-S0AS3

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 21 dB, DC to 26.5 GHz
Insertion loss	$\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 3.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles RPC-SL	≥ 3000
Center contact captivation	≥ 27 N
Coupling test torque RPC-3.50	1.70 Nm
Recommended torque RPC-3.50	0.80 Nm to 1.10 Nm
Recommended torque RPC-SL	2 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	MIL-STD-202, Method 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	23 g/pce

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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