



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

Interface

According to
Mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated

Technical Data Sheet

Rosenberger

RPC-3.50

Adaptor
JACK - JACK

03K121-K02S3

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 26 dB, DC to 26.5 GHz
Insertion loss	≤ 0.04 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Proof voltage (at sea level)	1000 V rms
Working voltage (at sea level)	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 27 N
radial	≥ 0.01 Nm
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 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

Weight

3.3 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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