



1) restricted connection dimension

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

Interface

RPC-3.50 according to	IEC 60169-23
RPC-3.50 mechanically compatible with	RPC-2.92 and SMA
RPC-N according to	IEC 61169-16; MIL-STD 348A/402

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PPE

Plating

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

Adaptor
RPC-3.50 jack – RPC-N 50 Ω plug

03KR105-S0AS3

Electrical data

Impedance 50 Ω
 Frequency DC to 18 GHz
 Return loss ≥ 26 dB, DC to 18 GHz
 Insertion loss ≤ 0.05 x √f(GHz) dB
 Insulation resistance ≥ 5 GΩ
 Test voltage (at sea level) 1000 V rms
 Working voltage (at sea level) 335 V rms
 RF-leakage ≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles ≥ 500
 Center contact captivation ≥ 28 N
 Coupling test torque RPC-3.50 1.70 Nm
 Recommended torque RPC-3.50 0.80 Nm to 1.10 Nm
 Coupling test torque RPC-N 1.70 Nm
 Recommended torque RPC-N 0.70 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 MIL-STD-202, Method 106
 RoHS compliant

Tooling

N/A

Suitable cables

N/A

Weight

66.4 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
M. Moder	10.08.10	F. Reiner	02.07.18	a01	18-1026	M. Ruf	29.06.18

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