



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