



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

**Interface**

RPC-N according to  
RPC-7 according to

IEC 61169-16; MIL-STD 348A/402  
IEC 457-2

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact RPC-N  
Outer contact RPC-7  
Dielectric  
Coupling nut

**Material**

CuBe  
Stainless steel  
CuBe  
PPE  
Stainless steel

**Plating**

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

Adaptor  
RPC-N 50 Ω plug – RPC-7

**05S107-P00S3**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 18 GHz
Insertion loss	≤ 0.08 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1000 V rms
RF-leakage	≥ 90 dB up to 1 GHz

**Mechanical data**

Mating cycles RPC-N	≥ 500
Mating cycles RPC-7	≥ 5000
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Coupling test torque RPC-7	1.95 Nm
Recommended torque RPC-7	1.36 Nm

**Environmental data**

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

63.0 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
H. Babinger	27.07.04	F. Reiner	02.07.18	c01	18-1026	M. Ruf	29.06.18

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