



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

	Material	Plating
Center contact	CuBe	Gold, min. 1.27 μ m, over chemical nickel
Outer contact	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	
Gasket	Silicone	

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

03S105-K00S3

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 Nm to 1.10 Nm

Environmental data

Temperature range -40°C to +85°C
 Thermal shock MIL-STD-202, Meth. 107, Cond. B
 Corrosion MIL-STD-202, Meth. 101, Cond. B
 Vibration MIL-STD-202, Meth. 204, Cond. D
 Shock MIL-STD-202, Meth. 213, Cond. I
 Moisture resistance MIL-STD-202, Meth. 106
 RoHS compliant

Tooling

N/A

Suitable cables

N/A

Weight

39.0 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
Herbert Babinger	17.05.04	F. Reiner	20.06.18	b01	18-1026	M.Ruf	20.06.18

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