



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-7 according to	IEC 457-2

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-3.50
Outer contact RPC-7
Coupling nut
Dielectric
Gasket

Material

CuBe
Stainless steel
CuBe
Stainless steel
PPE
Silicone

Plating

Gold, min. 1.27 μ m, over chemical nickel
Passivated
Gold, min. 1.27 μ m, over chemical nickel
Passivated

Adaptor
RPC-3.50 plug – RPC-7

03S107-P00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 18 GHz
Insertion loss	≤ 0.04 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	≥ 100 dB up to 1 GHz

Mechanical data

Mating cycles RPC-3.50	≥ 500
Mating cycles RPC-7	≥ 5000
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-7	1.95 Nm
Recommended torque RPC-7	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

44.3 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
H. Babinger	18.05.04	F. Reiner	02.07.18	b01	18-1026	M. Ruf	29.06.18

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