



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

Interface

RPC-N according to	IEC 61169-16; MIL-STD 348A/402
SMA according to	IEC 60169-15; EN 122110; MIL-STD-348A/310
SMA mechanically compatible with	RPC-2.92 and RPC-3.50

Documents

N/A

Material and plating

Connector parts

	Material	Plating
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Stainless steel	Passivated
Dielectric 1	PPE	
Dielectric 2	PTFE	

Adaptor
RPC-N 50 Ω jack – SMA jack

05K132-K00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 23 dB, DC to 18 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles	≥ 500
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 SMA	1.70 Nm
Recommended torque SMA	0.80 Nm to 1.10 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

37.9 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	02.08.04	F. Reiner	20.06.18	c01	18-1026	M.Ruf	20.06.18

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