



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

Interface

RPC-2.92 according to	IEC 61169-35
RPC-2.92 mechanically compatible with	RPC-3.50 and SMA
SMP according to	MIL-STD-348

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-2.92
Outer contact SMP
Coupling nut
Dielectric
Gasket

Material

CuBe
Stainless steel
CuBe
Stainless steel
PEEK
Silicone

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Gold, min. 0.8 µm, over chemical nickel
Passivated

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Adaptor
RPC-2.92 plug – SMP jack

02S119-K00E3

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 32 dB, DC to 12 GHz ≥ 26 dB, 12 GHz to 26.5 GHz ≥ 21 dB, 26.5 GHz to 40 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	250 V rms

Mechanical data

Mating cycles RPC-2.92	≥ 500
Mating cycles SMP	
if mating part is Smooth bore, Catcher's Mitt	≥ 1000
if mating part is Limited detent	≥ 500
if mating part is Full detent	≥ 100
Center contact captivation	≥ 20 N
Coupling test torque RPC-2.92	1.70 Nm
Recommended torque RPC-2.92	0.80 Nm to 1.10 Nm
Engagement force SMP	
- Smooth bore, Catcher's Mitt	≤ 9 N
- Limited detent	≤ 45 N
- Full detent	≤ 68 N
Disengagement force SMP	
- Smooth bore, Catcher's Mitt	≥ 2.2 N
- Limited detent	≥ 9 N
- Full detent	≥ 22 N

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

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Technical Data Sheet**Rosenberger**Adaptor
RPC-2.92 plug – SMP jack**02S119-K00E3****Tooling**

N/A

Suitable cables

N/A

Weight

9.2 g/pce

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Herbert Babinger	06.12.04	F. Reiner	20.06.18	c01	18-1026	M.Ruf	20.06.18

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