



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
Dielectric

Material

CuBe
Stainless steel
CuBe
PEEK

Plating

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

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RF_35/09.14/6.2

Adaptor
RPC-2.92 jack – SMP plug

02K119-S00E3

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 ≥ 500
 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 limited detent ≤ 45 N
 Disengagement force SMP limited detent ≥ 9 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

Tooling

N/A

Suitable cables

N/A

Weight

10.1 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 | 06.12.04 | F. Reiner | 20.06.18 | c01 | 18-1026 | M.Ruf | 20.06.18 |

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